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REGISTRATION DATES AND TIMES & CONFERENCE PACKAGE PICKUP

July 20, 2014 (Sunday):

03:00pm - 08:30pm

(LOCATION: Second Floor, Conference Lobby: 1-5)

July 21, 2014 (Monday):

06:45am - 05:00pm

(LOCATION: Second Floor, Conference Lobby: 1-5)

July 22, 2014 (Tuesday):

06:45am - 05:00pm

(LOCATION: Second Floor, Conference Lobby: 1-5)

July 23, 2014 (Wednesday):

06:45am - 05:00pm

(LOCATION: Second Floor, Conference Lobby: 1-5)

July 24, 2014 (Thursday):

06:45am - 05:00pm

(LOCATION: Second Floor, Conference Lobby: 1-5)

CONFERENCE RECEPTION DINNER / SOCIAL

July 21, 2014 (Monday):

09:00 - 11:45pm

(LOCATION: Ballrooms 1-5)

CONFERENCES ACRONYMS AND THEIR FULL TITLES

ABDA'14: The 1st International Conference on Advances in Big Data Analytics BIOCOMP'14: The 15th International Conference on Bioinformatics & Computational Biology CSC'14: The 12th International Conference on Scientific Computing DMIN'14: The 10th International Conference on Data Mining FFF'14: The 13th International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government RSA'14: The International Conference Reconfigurable Systems and Algorithms ESA'14: The 12th International Conference on Embedded Systems and Applications FCS'14: The 10th International Conference on Foundations of Computer Science FECS'14: The 10th International Conference on Frontiers in Education: Computer Science and Computer Engineering GCA'14: The 10th International Conference on Grid & Cloud Computing and Applications The 11th International Conference on Genetic & Evolutionary Methods GEM'14: ICAI'14: The 16th International Conference on Artificial Intelligence ICOMP'14: The 15th International Conference on Internet Computing and Big Data ICWN'14: The 13th International Conference on Wireless Networks IKE'14: The 13th International Conference on Information & Knowledge Engineering IPCV'14: The 18th International Conference on Image Processing, Computer Vision, & Pattern Recognition MSV'14: The 11th International Conference on Modeling, Simulation and Visualization Methods PDPTA'14: The 20th International Conference on Parallel and Distributed Processing Techniques and Applications SAM'14: The 13th International Conference on Security and Management SERP'14: The 12th International Conference on Software Engineering Research and Practice SWWS '14: The 12th International Conference on Semantic Web and Web Services

PARTIAL LIST OF ADDITIONAL KEYNOTES, INVITED TALKS, & PANEL DISCUSSIONS

These talks are in addition to the focused keynotes/invited talks that appear in the individual conference schedules. The talks are open to all attendees and are scheduled in a way that various targeted attendees can attend/participate in them. This is only a partial list.

O. KEYNOTE LECTURE:

Smart Data for you and me: Personalized and Actionable Physical Cyber Social Big Data

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive Director, Ohio Center of Excellence in Knowledge-enabled Computing (Kno.e.sis), and Professor of Computer Science, Wright State University, Ohio, USA. Prof. Sheth is one of the highest cited researchers with about 28,000 citations to his published papers.

Date & Time: 08:45am - 09:45am; July 21 (Monday), 2014

LOCATION: Monte Carlo (Blue Man Group) Theater

O. KEYNOTE LECTURE:

Visualization and Data Mining for High Dimensional Datasets Prof. Alfred Inselberg School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry", (praised by

Stephen Hawking among others.)
Date & Time: 09:45am - 10:45am; July 21 (Monday), 2014

LOCATION: Monte Carlo (Blue Man Group) Theater

O. KEYNOTE LECTURE:

Big Data Analytics Cognitive Algorithms

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the highest US Air Force Award for basic research). Date & Time: 10:45am - 11:45am; July 21 (Monday), 2014 LOCATION: Monte Carlo (Blue Man Group) Theater

O. PANEL DISCUSSION:

Title: Thoughts, Language, and Memories for Humans vs. Artificially Intelligent Entities

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter Fellow, CERIAS; Purdue University, USA.

Dr. Julia M. Taylor; Computer & Information Technology; Fellow, CERIAS; Purdue University, USA.

Shelli Friess; Cognitive Psychologist, Relevant Counseling, Denver, Colorado. USA.

Dr. John Carbone; Engineering Fellow, Raytheon Intelligence, Information and Services, Aurora, Colorado, USA.

Date & Time: 04:20pm - 06:00pm; July 22 (Tuesday), 2014

LOCATION: Ballroom 4

O. INVITED LECTURE:

A Primitive Artificial Prefrontal Cortex for Cognitive Self-Regulation in Artificial Life Forms

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria School of Innovation, Douglas County, Colorado, USA

Date & Time: 03:40pm - 04:20pm; July 22 (Tuesday), 2014

LOCATION: Ballroom 4

O. INVITED LECTURE:

Big Data Issues for Mining Knowledge in Maintenance Information Systems Prof. Diego Galar

Division of Operation and Maintenance Engineering, Lulea University of Technology, Lulea, Sweden; Former Pro-Vice-Chancellor, Aragon Institute for Engineering Research (I3A), Aragon, Spain.

Date & Time: 12:00 - 01:00pm; July 22 (Tuesday), 2014

LOCATION: Ballroom 1

O. INVITED LECTURE:

Data Science Emergence

Dr. Peter Geczy

National Institute of Advanced Industrial Science and Technology (AIST), Japan; Institute of Physical & Chemical Research (RIKEN); Research

Center for Future Technologies.

Date & Time: 12:00 - 01:00pm; July 23 (Wednesday), 2014

LOCATION: Ballroom 1

INVITED LECTURE:

Integrative Systems Biology Approaches to Identify Disrupted Pathways in Disease Development

Dr. Mary Qu Yang

Director of the Joint Bioinformatics Ph.D. Program of University of Arkansas Little Rock College of Engineering & Information Technology, University of Arkansas for Medical Sciences, Arkansas, USA Date & Time: 05:20pm - 06:00pm; July 23 (Wednesday), 2014

LOCATION: Platinum Room

PLANNED TUTORIALS

Each tutorial is between 1 to 3 hours long and are free to all registered attendees.

O. Accreditation Board of Engineering and Technology (ABET) Accreditation of Computer Science Program

Prof. Gurdeep Singh Hura

Fellow, Society for Design and Process Science; Senior Member, IEEE; CAC ABET Program evaluator;

Chair, Department of Mathematics and Computer Science, University of Maryland Eastern Shore, Maryland, USA;

Member of Editorial Board: Computer Communications (Elsevier),

International Journal of Electronics and Reliability, and International Journal of Computation in Intelligence and Bioinformatics; Regional

Editor of Journal of Integrated design and Process control (SDPS). Date & Time: 06:00pm; July 21 (Monday), 2014

LOCATION: Gold Room

O. Natural Language in Information Security and Privacy
Prof. Julia M. Taylor* and Distinguished Professor Victor Raskin**
*Computer & Information Tech.; Fellow, CERIAS; Purdue University, USA;
**Distinguished Professor, English & Linguistics Professor, Computer
Science (courtesy); Professor, Computer and Information Technology
(courtesy); Associate Director & Charter Fellow, CERIAS; Purdue
University, USA.
Date & Time: 05:45pm; July 21 (Monday), 2014

O. Energy-Aware Resource Management for Computing Systems

Prof. H. J. Siegel

Abell Endowed Chair Distinguished Professor of Electrical and Computer Engineering and Professor of Computer Science, Colorado State University, Fort Collins, Colorado, USA; Founding Director, CSU Information Science and Technology Center (ISTeC). Fellow of IEEE; Fellow of ACM.

Date & Time: 05:45pm; July 21 (Monday), 2014

Date & Time: 05:45pm; July 21 (Monday), 2014 LOCATION: Sterling Room

O. Cryptography and Network Security
Dr. Asoke Nath and Ms. Joyshree Nath
St. Xavier's College (Autonomous), Kolkata, West Bengal, India
and B.P. Podder Institute of Technology and Management, Salt Lake
City, West Bengal, India.
Date & Time: 05:45pm; July 21 (Monday), 2014

O. Multidimensional Detective - the Blessings of Dimensionality Prof. Alfred Inselberg School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry" (praised by Stephen Hawking among others.)

Date & Time: 05:45pm; July 22 (Tuesday), 2014

LOCATION: Ballroom 1

LOCATION: Silver Room

LOCATION: Copper Room

O. Agents at High Seas
Dr. Henry Hexmoor
Associate Professor, Department of Computer Science, Southern
Illinois University, Illinois, USA; Senior Member, IEEE.
Date & Time: 06:00pm; July 22 (Tuesday), 2014
LOCATION: Ballroom 2

O. First Programming Language in CS Education - The Argument For Scala Prof. Mark C. Lewis
Trinity University, Texas, USA
(Author of "Introduction to the Art of Programming Using Scala").
Date & Time: 05:45pm; July 22 (Tuesday), 2014
LOCATION: Ballroom 3

O. The Use of ICT to Mitigate Income Inequality
Darren Gudmundson
Income-Inequality.com, Canada; (Also a Project Manager, Business
Transformation and Technology, Innovation Energy & Mines, Government
of Manitoba, Canada.)
Date & Time: 05:45pm; July 22 (Tuesday), 2014
LOCATION: Ballroom 5

O. Using Weka to Mine Temporal Work Patterns of Programming Students Dr. Dale E. Parson
Kutztown University of Pennsylvania, Kutztown, Pennsylvania, USA
Date & Time: 02:00pm - 3:00pm; July 22 (Tuesday), 2014
LOCATION: Ballroom 3

O. Recommendation Systems for Big Data Prof. Samee U. Khan and Muhammad Usman Shahid Khan North Dakota State University, USA Date & Time: 06:00pm; July 23 (Wednesday), 2014 LOCATION: Ballroom 3

O. Fault Tolerance and Beyond Prof. Igor Schagaev Professor of Computer Science, London Metropolitan University, UK; Research Advisor to ITACS Ltd, UK Date & Time: 06:00pm; July 23 (Wednesday), 2014

LOCATION: Ballroom 2

O. Actor Parallelism and Akka/Scala Prof. Mark C. Lewis Trinity University, Texas, USA (Author of "Introduction to the Art of Programming Using Scala"). Date & Time: 06:00pm; July 23 (Wednesday), 2014 LOCATION: Ballroom 4

O. Hacking with Kali Linux
Prof. George Markowsky
Professor of Computer Science and Associate Director of the School
of Computing and Information Science, Cybersecurity Lab, University
of Maine, Orono, Maine, USA; Visiting Scholar, Department of Computing
Security, Rochester Institute of Technology, Rochester, New York, USA.
Date & Time: 06:00pm; July 23 (Wednesday), 2014
LOCATION: Ballroom 5

O. Cloud Computing for Big Data Challenges (Cloud Architectures and Big Data Tools)
Mehdi Bahrami
IEEE Senior Member; Senior Software Analyst, Lian Processor Co.;
Cloud Lab, Electrical Engineering and Computer Science Department,
University of California, Merced, California, USA
Date & Time: 05:45pm; July 23 (Wednesday), 2014
LOCATION: Gold Room

O. Smartphone Sensor Mining Applications: Ubiquitous Possibilities Dr. Gary Weiss
Director, Wireless Sensor Data Mining (WISDM) Lab.; Department of Computer and Information Science, Fordham University in New York City, New York, USA
Date & Time: 05:40pm; July 23 (Wednesday), 2014
LOCATION: Ballroom 1

ABDA'14 & ICOMP'14 & GCA'14 CONFERENCE SCHEDULES

The 2014 International Conference on Advances in Big Data Analytics (ABDA'14)

+

The 2014 International Conference on Internet Computing and Big Data (ICOMP'14)

+

The 2014 International Conference on Grid & Cloud Computing and Applications (GCA'14)

Because of partial topical and technical overlap between ABDA'14, ICOMP'14, & GCA'14, the schedule of these conferences are merged into one comprehensive schedule. It is hoped that this would encourage the participants of the three conferences to explore cross-fertilization of ideas. There are also a number of other sessions (not listed as part of these three conferences) that are of potential interest to ABDA'14, ICOMP'14, & GCA'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in DMIN'14, FECS'14, GEM'14, ICAI'14, IKE'14, and PDPTA conferences discuss topics that are within the scope of ABDA'14, ICOMP'14, & GCA'14; these have been scheduled so that selected ABDA'14, ICOMP'14, & GCA'14 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force

on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-ABDA: ALGORITHMS FOR BIG DATA

XXX Co-Chairs: Dr. Mehran Asadi; Interim Dept. Chair, The Lincoln University, Pennsylvania, USA;

Dr. Greg Speegle; Baylor University, Waco, Texas, USA

July 21, 2014 (Monday); 01:00pm - 03:00pm

(LOCATION: Copper Room)

01:00 - 01:20pm: On Walsh-Fourier Bispectral Analysis

M. M. Gabr, G. S. Sabbah, M. El-Hashash

Faculty of Science, Alexandria University, Egypt;

Bridgewater State University, Bridgewater, Massachusetts, USA

01:20 - 01:40pm: Noise Benefits In Convolutional Neural Networks

Kartik Audhkhasi, Osonde Osoba, Bart Kosko

Signal and Image Processing Institute, EE Department,

University of Southern California, Los Angeles, California, USA

01:40 - 02:00pm: Research of Decision Tree on YARN Using MapReduce and Spark

Hua Wang, Bin Wu, Shuai Yang, Bai Wang

Beijing University of Posts and Telecommunications, P. R. China

02:00 - 02:20pm: Kernel Approach to Incomplete Data Analysis (KAIDA)

S. Y. Kung, Pei-Yuan Wu

Professor of Department of Electrical Engineering,

Princeton University, USA

02:20 - 02:40pm: On the Usage of Sorting Networks to Big Data

Blanca Lopez, Nareli Cruz-Cortes

Instituto Politecnico Nacional (CIC-IPN), Mexico

02:40 - 03:00pm: XXX Big Data Architecture for Large-scale Scientific Computing

Benoit Lange, Toan Nguyen

Project OPALE, INRIA Grenoble, Sant-Ismier, France

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-ABDA-ICOMP-GCA

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. The Use of Fully Homomorphic Encryption in Data Mining with

Privacy Preserving

Laecio Araujo Costa, Ruy Jose Guerra Barreto De Queiroz Instituto Federal do Sertao Pernambucano - IFSertao, Brazil;

Universidade Federal do Pernambuco - UFPE, Brazil

O. An Empirical Approach to Identifying the Friendships on Social

Newtwork Users

Kuan-Hsi Chen, Yuh-Jyh Hu, Tyne Liang, Kiwing To National Chiao Tung University, Taiwan, R.O.C.;

Institute of Physics, Academia Sinica, Taipei, Taiwan, R.O.C.

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SESSION 2-ICOMP: CLOUD COMPUTING + WEB SERVICES + WEB APPLICATIONS + SYSTEM

INFRASTRUCTURES & ENHANCED CACHE METHODS

XXX Co-Chairs: Prof. Lan Yang; California State Polytechnic

University, Pomona, CA, USA;

Mehdi Bahrami; Cloud Lab, University of California,

Merced, CA, USA

XXX July 21, 2014 (Monday); 03:40pm - 06:00pm

(LOCATION: Copper Room)

03:40 - 04:00pm: Design and Development of a System for Data Capture in a

Monitoring and Evaluation Environment

Patrick Otoo Bobbie, Joshua Ronald Opoku Nsiah Ghana Technology University College, Accra, Ghana

04:00 - 04:20pm: NbQ-CLOCK: A Non-blocking Queue-based CLOCK Algorithm for

Web-Object Caching

Gage Eads, Juan Colmenares

University of California, Berkeley, California, USA; Samsung Research America, Silicon Valley, California, USA

04:20 - 04:40pm: Design and Deployment of Highly-Scalable Distributed Web

Conferencing Systems

Brijesh Kumar, Constantine Katsinis

Rapidsoft Systems Inc., Princeton, New Jersey, USA;

Drexel University, Philadelphia, PA, USA

04:40 - 05:00pm: Disambiguating Cloud Security

T. Ray Campbell

Livingstone College, Salisbury, North Carolina, USA

05:00 - 05:20pm: Characteristics of Online Social Services Sharing Long

Duration Content

Hyewon Lim, Taewhi Lee, Namyoon Kim, Sang-goo Lee, and

Hyoung-Joo Kim

Seoul National University, Seoul, Republic of Korea, South Korea; BigData Software Platform Research Department, Electronics and

Telecommunications Research Institute (ETRI), Daejeon,

Republic of Korea, South Korea

05:20 - 05:40pm: Correlation and Regression Models to Assess the Usability

of the Web Pages

Saad Subair, Husaa Alessa

Princess Nora Bint Abdulrahman University, Riyadh, Kingdom of Saudi Arabia; King Abdulaziz City for Science and Technology,

Riyadh, Kingdom of Saudi Arabia

05:40 - 06:00pm: XXX Building Blocks: Web Standards as Standard Resources in Robotics

Sekou Remy

School of Computing, Clemson University, South Carolina, USA

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 3-GCA: CLOUD COMPUTING & Grid + RELATED ISSUES

> XXX Co-Chairs: Dr. Mehran Asadi; Interim Dept. Chair, The Lincoln University, Pennsylvania, USA;

Felix Njeh; Bowie State University, Bowie, Maryland, USA

July 22, 2014 (Tuesday); 08:00am - 10:20am

(LOCATION: Copper Room)

08:00 - 08:20am: XXX The Cloud Computing Adoption Model (CCAM)

Felix Njeh, Bo Yang

Bowie State University, Bowie, Maryland, USA

08:20 - 08:40am: Exploring Security and Privacy Risks of SoA Solutions

Deployed on the Cloud

Abdullah Abuhussein, Harkeerat Bedi, Sajjan Shiva

The University of Memphis, Memphis, USA

08:40 - 09:00am: A Highly Available Generic Billing Architecture for

Heterogenous Mobile Cloud Services

Piyush Harsh, Konstantin Benz, Irena Trajkovska, Andy Edmonds,

Paolo Maria Comi, Thomas Michael Bohnert

Zurich University of Applied Sciences, Switzerland;

Universidad Politcnica de Madrid, Spain

Italtel S.p.A. Innovation & Research, Milan, Italy

09:00 - 09:20am: Host Load Prediction-based GMDH-EA and MMTP for Virtual

> Machines Load Balancing in Cloud Environment Chenglei Peng, Qiangpeng Yang, Yao Yu, Yu Zhou,

Ziqiang Wang, Sidan Du

Nanjing University, Nanjing, P. R. China

09:20 - 09:40am: SLA-Based Optimal Provisioning Method for Cloud Computing

Environments

Seunghwan Yoo, Sungchun Kim

Sogang University, Seoul, South Korea

09:40 - 10:00am: DiAF: A Dynamic Virtual Appliance Provision and Management

Framework for Cloud Computing

Rajendar Kandan, Mohamad Zakaria Alli, Hong Ong

Advanced Computing Lab, MIMOS, Malaysia

10:00 - 10:20am: A Framework for Selecting Cloud Service Provider Based on

Service Level Agreement Assurance

Radwa El-Awadi, Mohamed Esam, Mohamed Abu Rizka, and

Abd El-Fattah Hegazi

Sadat Academy for Management Sciences, Egypt; Arab Academy for Science and Technology, Egypt; EMC Company, Cairo, Egypt

10:20 - 10:40am: **BREAK**

SESSION 4-ABDA: SECURITY & PRIVACY IN THE ERA OF BIG DATA & RISK ANALYSIS

XXX + APPLICATIONS OF BIG DATA & SOFTWARE TOOLS + SOCIAL NETWORKS XXX Co-Chairs: Prof. Lan Yang; California State Polytechnic University,

Pomona, CA, USA;

Dr. Muazzam A. Khan Khattak, National University of Science

& Technology, Islamabad, Pakistan July 22, 2014 (Tuesday); 10:40am - 12:40pm

(LOCATION: Copper Room)

Some Risk Measures and Their Applications in Financial Data Analysis 10:40 - 11:00am:

H. Haidar, B. Minsky, Q. Tang, R. Thapar, D. Yan, L. Zhang

University of Leicester, Leicester, UK; Sussex University, Brighton,

UK; Solo Capital Partners LLP, London, UK

11:00 - 11:20am: Secure Outsourcing Multiparty Computation on Lattice-based Encrypted Cloud Data under Multiple Keys Yi Sun, Qiaoyan Wen, Hua Zhang, Zhengping Jin State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, P. R. China 11:20 - 11:40am: Application-Agnostic Streaming Bayesian Inference via Apache Storm Todd Wasson, Ana Paula De Oliveira Sales Data Analytics and Decision Sciences, Lawrence Livermore National Laboratory, Livermore, California, USA 11:40 - 12:00pm: Multicore Construction of k-d Trees for High Dimensional Point Data Victor Lu, John C. Hart University of Illinois at Urbana Champaign, Illinois, USA 12:00 - 12:20pm: ARIANA: Adaptive Robust and Integrative Analysis for Finding Novel Associations Vida Abedi, Mohammed Yeasin, Ramin Zand Memphis University, Memphis, Tennessee, USA; Department of Neurology University of Tennessee Health Science Center, Tennessee, USA 12:20 - 12:40pm: XXX Using Influence for Navigation in Online Social Networks Bastien Lebayle, Mehran Asadi, Afrand Agah Department of Computer Science, West Chester University, PA, USA; Department of Business and Entrepreneurial Studies, The Lincoln University, PA, USA 12:40 - 01:20pm: LUNCH (On Your Own) SESSION 5-ICOMP: COMMUNICATION SYSTEMS & TOPOLOGIES + APPLICATIONS & RELATED ISSUES + SOCIAL NETWORKS XXX Chair: Dr. Muazzam A. Khan Khattak, National University of Science & Technology, Islamabad, Pakistan July 22, 2014 (Tuesday); 01:20pm - 03:00pm (LOCATION: Copper Room) 01:20 - 01:40pm: Construction and Verification of SNS Which Used the Japanese Historical Government System Hideaki Hashimoto, Takayuki Fujimoto Graduate School of Engineering, Toyo University, Japan 01:40 - 02:00pm: Efficient Assignment of Packet Cache Region for Traffic Reduction of Multiple Redundant Contents Yuki Otaka, Akiko Narita Graduate School of Science and Technology, Hirosaki University, Japan 02:00 - 02:20pm: SIP over IP VPN: Performance Analysis Aria Asadi Eskandar, Mahbubur R. Syed Minnesota State University, Mankato, Minnesota, USA 02:20 - 02:40pm: Modeling of Open Network Reliability Including the Internet Based on the Theory of Percolation in Two-Dimensional and

Three-Dimensional Regular and Random Network Structures

Dmitry Zhukov, Sergey Lesko, Dmitry Lobanov

Moscow State University of Instrument Engineering and Computer Science,

Moscow, Russia; National University of Science and Technology

"MISIS", Moscow, Russia

02:40 - 03:00pm: Mathematical Model of Service Quality Performance's Computing of Multiservice Network

Gulfarida Tulemissova

International Academy of Business, Almaty, Kazakhstan

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-ABDA-ICOMP-GCA

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. A Big-Data Analytical Application for China's Largest Social Media Platform (Weibo)

Wenyu Dou, Man Chen

Professor of Marketing, College of Business, City University of Hong Kong, Hong Kong; Zhongnan University of Economics and Law. City University of Hong Kong, Hong Kong

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GENERAL - INVITED LECTURE: 03:40 - 04:20pm:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-

REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria

School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: **GENERAL - PANEL DISCUSSION:**

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY

INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter

Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES 06:00 - 09:00pm: (Please see the lists at the begining of this book for details)

SESSION 6-GCA: PERVASIVE COMPUTING, CLOUD COMPUTING, ANALYSIS, &

PERFORMANCE EVALUATION + BIG DATA

XXX Co-Chairs: Dr. Rajni Goel; Professor & Dept. Chair, Howard University,

Washington, DC, USA;

Assem Abdel Hamed Mousa; E-Commerce Technical Support Systems

Manager, Cairo, Egypt

July 23, 2014 (Wednesday); 08:00am - 10:20am

(LOCATION: Copper Room)

08:00 - 08:20am: Cloud Computing

Assem Abdel Hamed Mousa

Ecommerce Technical Support Systems Manager, Cairo, Egypt

08:20 - 08:40am: Ubiquitous, Pervasive Computing

Assem Abdel Hamed Mousa

Ecommerce Technical Support Systems Manager, Cairo, Egypt

08:40 - 09:00am: Cyber Analysis Grids for Asynchronous Distributed Cloud Services

R. William Maule

Naval Postgraduate School, Monterey, California, USA

09:00 - 09:20am: XXX FREE SLOT

09:20 - 09:40am: Surveying Trust in the Cloud

Rajni Goel, James Nies, Moses Garuba Howard University, Washington, DC, USA

09:40 - 10:00am: Cloud Computing Benchmarks: A Survey

Carlos Vazquez, Ram Krishnan, Eugene John

The University of Texas at San Antonio, Texas, USA

10:00 - 10:20am: Big Parameter Data Analysis for Semi-conductor Manufacture

Jain-Shing Wu, Ming-Chun Tsai, Sheng-Wei Chu, Chung-Nan Lee National Sun Yat-sen University, Kaohsiung, Taiwan, R.O.C.

10:20 - 10:40am: BREAK

SESSION 7-ABDA: BIG DATA MANAGEMENT & FRAMEWORKS + BIG DATA PROGRAMMING

XXX Co-Chairs: Dr. Vida Abedi; University of Memphis, Tennessee, USA;
Dr. Fabian Garcia Nocetti; Universidad Nacional Autonoma

de Mexico, Mexico

July 23, 2014 (Wednesday); 10:40am - 12:40pm

(LOCATION: Copper Room)

10:40 - 11:00am: Design and Implementation of a Cloud-Based Big Data

Programming Service

Yen-Yu Lin, Xuan-Yi Lin, Jiazheng Zhou, Hsing-Chang Chou,

and Yeh-Ching Chung

National Tsing Hua University, Taiwan, R.O.C.

11:00 - 11:20am: Real-Time Data/Information Storage and Retrieval in

Autonomous AI Systems

James A. Crowder, John Carbone

Raytheon Intelligence, Information, & Services, Colorado, USA

11:20 - 11:40am: Transparency and Efficiency in Grid Computing for Big Data

Paul L. Bergstein

University of Massachusetts Dartmouth, Massachusetts, USA

11:40 - 12:00pm: Integration of Big Data Components for NoSQL Problems

Greg Speegle, Erich Baker

Baylor University, Waco, Texas, USA

12:00 - 12:20pm: Big Data System Design for Digital Library Middleware

Behrooz Seyed-Abbassi, Chris Jerome Carey

School of Computing, University of North Florida, Florida, USA

12:20 - 12:40pm: Comparison and Review of Memory Allocation and File Access

Techniques and Techniques preferred for Distributed Systems

Muazzam A. Khan, Numan Nisar

National University of Sciences and Technology, Pakistan

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 8-ABDA: BIG DATA SEARCH & MINING METHODS

XXX Co-Chairs: Prof. Andrew H. Sung; University of Southern Mississippi,

USA;

Dr. Vida Abedi; University of Memphis, Tennessee, USA

July 23, 2014 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Copper Room)

01:20 - 01:40pm: MPGM: A Mixed Parallel Big Graph Mining Tool

Ma Pengjiang, Wu Bin, Liu Yang, Wang Hongxu

Beijing University of Posts and Telecommunications,

Beijing, P. R. China

01:40 - 02:00pm: Decomposition of Inverted Lists and Word Labeling: A New

Index Structure for Text Search Yangjun Chen, Weixin Shen University of Winnipeg, Canada

02:00 - 02:20pm: Finding Critical Samples for Mining Big Data

Andrew H. Sung, Bernardete M. Ribeiro, Qingzhong Liu, and

Divya Suryakumar

University of Southern Mississippi, Mississippi, USA; University of Coimbra, Portugal; Sam Houston State University, Texas, USA;

Apple, Inc., USA

02:20 - 02:40pm: Spatial Association Mining of Focal Events in Cloud Computing

Sang Jun Park, Jin Soung Yoo

Indiana University-Purdue University, Fort Wayne, Indiana, USA

02:40 - 03:00pm: Spectrum Recognition in Large-Scale Cognitive Radio Networks

With Spectral Data Mining

Adam L. Anderson, C. Brett Witherspoon, Behnaz Papari Tennessee Tech University, Cookeville, Tennessee, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-ABDA-ICOMP-GCA

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

 $\hbox{O. Comparison of System Monitoring Tools for Large Cluster System}\\$

Sung-Jun Kim, Joon Woo

Supercomputing Center, Korea Institute of Science and

Technology Information (KISTI), South Korea

0. ...

SESSION 9-ICOMP: BIG DATA, DATA MANAGEMENT & STORAGE + XML + PRIVACY

ISSUES + APPLICATIONS

Chairs: TBA

July 23, 2014 (Wednesday); 03:40pm - 05:40pm

(LOCATION: Copper Room)

03:40 - 04:00pm: Weighted Semantic PageRank Using RDF Metadata on Hadoop

Hee-Gook Jun, Woo-Hyun Lee, Dong-Hyuk Im, Sang-Goo Lee, and

Hyung-Joo Kim

Seoul National University; Hoseo University, Korea

04:00 - 04:20pm: Big Data Analytics Framework for Improved Decision Making

Brian Xu, Sathish Alampalayam Kumar Honeywell Aerospace, Minnesota, USA;

Coastal Carolina University, South Carolina, USA

04:20 - 04:40pm: Anonymization Infrastructure for Secondary Use of Data

Yuichi Nakamura, Kanae Matsui, Hiroaki Nishi

Graduate School of Science & Technology, Keio University, Japan

04:40 - 05:00pm: A Low-cost Infrastructure for Massive Storage of Phenotype Data

for Dairy Cattle Genetic Improvement Programs

Wagner Arbex, Caio Dos Santos Borsato De Carvalho, Katia Santos,

Vinicius Campista Brum, Marcos Vinicius Barbosa Da Silva Brazilian Agricultural Research Corporation - Embrapa, Brazil;

Federal University of Juiz de Fora - UFJF, Brazil

05:00 - 05:20pm: Big Data Anonymization Method for Demand Response Services

Kengo Okada, Hiroaki Nishi

Graduate School of Science and Technology, Keio University, Japan

05:20 - 05:40pm: Determining Human-Perceived Level of Safety in Transportation

Systems Using Big Data Analytics

Carlos E. Otero, Marco Rossi, Adrian Peter, Rana Haber Florida Institute of Technology, Melbourne, Florida, USA

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 10-ABDA: APPLICATIONS OF BIG DATA + SOFTWARE TOOLS

XXX Co-Chairs: Dr. Adam L. Anderson; Tennessee Tech University, USA;

Dr. Chun-Kit Ngan; The Pennsylvania State University, USA; Prof. Mary Yang; University of Arkansas Little Rock, USA

July 24, 2014 (Thursday); 08:00am - 10:20am

(LOCATION: Copper Room)

08:00 - 08:20am: A Software Toolkit for Stock Data Analysis Using Social

Network Analysis Approach

Junyan Zhang, Donglei Du, Weichang Du

University of New Brunswick, New Brunswick, Canada

08:20 - 08:40am: Querying Clusters of Biological Sequences

Vicente Molieri, Lina Karam, Zoe Lacroix Arizona State University, Tempe, Arizona, USA

08:40 - 09:00am: A Visual Decision-Guided Analytics Tool for Finding the

Viable Shortest Path over Geospatiotemporal Data

Chun-Kit Ngan

Engineering and Information Science Division, Great Valley School of Graduate Professional Studies, The Pennsylvania

State University, Malvern, Pennsylvania, USA

09:00 - 09:20am: XXX Exploring Big Data Analysis Using Integrative Systems Biology

Approaches for Kidney Renal Clear Cell Carcinoma Studies

W. Yang, K. Yoshigoe, X. Qin, A. K. Dunker, J. Y. Yang, Y. Deng, J. S. Liu, W. Tong, A. Niemierko, Y. Liu, Z. Chen, L. Wang, D. Xu,

H. R. Arabnia, M. Q. Yang

University of Arkansas at Little Rock, Arkansas, USA; Human Genome

Sequencing Center, Baylor College of Medicine, Texas, USA; Indiana University School of Medicine, Indiana, USA; Indiana University School of Public Health, Bloomington, Indiana, USA; Division of Biostatistics and Biomathematics, Department of Radiation Oncology, Massachusetts General Hospital and Harvard Medical School Boston, Massachusetts, USA; Clemson University, South Carolina, USA; Rush University Cancer Center, Rush University, Chicago, Illinois, USA; University of Missouri, Columbia, Missouri, USA; Department of Statistics, Harvard

University, Cambridge, Massachusetts, USA; University of Georgia, Georgia, USA; National Center for Toxicological Research,

US Food and Drug Administration (FDA), Jefferson, Arkansas, USA

09:20 - 09:40am: XXX Graph Database for Agent Based Emergency Response Model

Safiye Sencer, Kutlu Eren

Sakarya University, Sakarya, Turkey

09:40 - 10:00am: Sentiment Analysis for Mobile SNS Data

Bong-Hyun Back, Ilkyu Ha, Byoungchul Ahn

Yeungnam University, South Korea

10:00 - 10:20am: Estimating the Visit and Content Association of Websites with

their Weblogs

Hyun-Ho Lee, Jong-Min Lee, Nam-Hun Park, Won-Suk Lee

Yeonsung University, South Korea; Hanyang University, South Korea;

Anyang University, South Korea; Yonsei University, South Korea

10:20 - 10:40am: BREAK

SESSION 11-ICOMP: MOBILE COMPUTING + BIG DATA, DATA MANAGEMENT & STORAGE

+ XML + PRIVACY ISSUES + APPLICATIONS

XXX Chair: Prof. Jinsul Kim; Chonnam National University, South Korea

July 24, 2014 (Thursday); 10:40am - 12:20pm

(LOCATION: Copper Room)

10:40 - 11:00am: A Sensor-Oriented Information System Based on Hadoop Cluster

Yu Liang, Chao Wu

University of Tennessee at Chattanooga, Tennessee, USA

11:00 - 11:20am: Investigation into Indexing XML Data Techniques

Alhadi Klaib, Joan Lu

University of Huddersfield, Huddersfield, UK

11:20 - 11:40am: Effective Nutrition Label Use on Smartphones

Vladimir Kulyukin, Tanwir Zaman, Sarat Kiran Andhavarapu

Utah State University, Logan, Utah, USA

11:40 - 12:00pm: An Investigation into the Problems of User Oriented Interfaces

in Mobile Applications Ragab Ihnissi, Joan Lu

University of Huddersfield, Huddersfield, West Yorkshire, UK

12:00 - 12:20pm: An Efficient Soft-Key Interface Provision Method in Cloud Platform

Sanghyun Park, Jinsul Kim

Chonnam National University, South Korea

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 12-ABDA: LATE BREAKING & POSITION PAPERS:

GRAPH ALGORITHMS, ONTOLOGY METHODS, BIG DATA

ARCHITECTURES, SOCIAL NETWORKS, EDUCATION INFRASTRUCTURES

XXX Co-Chairs: Prof. Weichang Du; University of New Brunswick, Canada;
Mehdi Bahrami; Cloud Lab, University of California, Merced, USA

July 24, 2014 (Thursday); 01:20pm - 05:00pm

(LOCATION: Copper Room)

01:20 - 01:40pm: MapReduce-Accelerated Framework for Identifying Minimum-Sized

Influential Vertices on Large-Scale Weighted Graphs Ying Xie, Jing (Selena) He, Vijay V. Raghavan Kennesaw State University, Kennesaw, Georgia, USA;

University of Louisiana at Lafayette, Lafayette, Louisiana, USA

01:40 - 02:00pm: Ontology, The Statistics Model Based on Qualitative Approach ...

Geonchul Shin, Guihyun Baek, Seongchan Park, Hongki Ahn, and

Sukyoung Kim

University of National Hanbat, Daejoen, South Korea

02:00 - 02:20pm: XXX Semantic Indexing of Big Data Using a Hierarchical,

Multidimensional Scheme Ronald J. Wroblewski

Spawar Systems Center Pacific, San Diego, California, USA

02:20 - 02:40pm: Social Event Radar (SERv2.0): Efficient Dynamic Adjustment

Mechanism of Distributed Web Crawlers in Social Networks XXX Tsun Ku, Cheng-Hung Tsai, Ping-Yen Yang, Ming-Jen Chen Institute for Information Industry, Innovative DigiTech-Enabled

Applications & Service Institute, Taipei, Taiwan, R.O.C.

02:40 - 03:00pm: Lessons Learned: Building a Big Data Research and Education

Infrastructure

G. Hsieh, R. Sye, S. Vincent, W. Hendricks Norfolk State University, Virginia, USA 03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION D-ABDA-ICOMP-GCA

July 24, 2014 (Thursday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 12-ABDA: Continued ... LATE BREAKING & POSITION PAPERS:

GRAPH ALGORITHMS, ONTOLOGY METHODS, BIG DATA

ARCHITECTURES, SOCIAL NETWORKS, EDUCATION INFRASTRUCTURES

(LOCATION: Copper Room)

03:40 - 04:00pm: Big Data Veracity in Healthcare

Joseph M. Woodside

Stetson University, DeLand, Florida, USA

04:00 - 04:20pm: Big Data System Design for Digital Library Middleware

Behrooz Seyed-Abbassi, Chris Jerome Carey

University of North Florida, Jacksonville, Florida, USA

04:20 - 04:40pm: Analysis of Technology Trend Gap Based on Ontology Between

Professional and General Public

Geonchul Shin, Guihyun Baek, Haeim Jeong, Sukyoung Kim University of National Hanbat, Daejoen, South Korea; Future Research Creative Laboratory, ETRI, South Korea

04:40 - 05:00pm: Blur Detection For Video Streams In The Compressed Domain

Zhenyu Wu, Daiying Zhou, Hong Hu

University of Electronic Science and Technology of China, P. R. China; Huawei Technologies Co. Ltd, P. R. China

05:00 - 05:20pm: FREE SLOT

BIOCOMP'14 CONFERENCE SCHEDULE

The 2014 International Conference on Bioinformatics & Computational Biology

There are a number of other sessions (not listed as part of BIOCOMP in this schedule) that are of potential interest to BIOCOMP participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in ABDA'14, ICOMP'14, PDPTA'14, DMIN'14, ICAI'14, and IKE'14 conferences discuss topics that are within the scope of BIOCOMP'14; these have been scheduled so that selected BIOCOMP groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

01:00 - 03:00pm: During this period, BIOCOMP attendees are encouraged to participate

in sessions belonging to ABDA'14, ICOMP'14, PDPTA'14, DMIN'14, ICAI'14, or IKE'14 conferences. These sessions discuss topics that

significantly overlap the scope of BIOCOMP.

03:00 - 03:20pm: BREAK

SESSION 1-BIOCOMP: GENE EXPRESSION & REPRESENTATION, MICROARRAY, SEQUENCING,

ALIGNMENT, & RELATED BIOINFORMATICS ISSUES

XXX Co-Chairs: Prof. Steven M. Carr; Terra Nova Genomics, Inc.,

St John's, Canada;

Prof. Zhong-Hui Duan; University of Akron, Ohio, USA

July 21, 2014 (Monday); 03:20pm - 06:00pm

(LOCATION: Platinum Room)

03:20 - 03:40pm: Relevance of Information in Cell Signaling Pathways Using

Default Logic

Andrei Doncescu, Pierre Siegel, Tan Le

University of Toulouse, CNRS, LAAS, Toulouse, France; University of Aix Marseille, CNRS, Marseille, France

03:40 - 04:00pm:	A Comparative Analysis of Computational Indel Calling Pipelines for Next Generation Sequencing Data Jacob Porter, Jonathan Berkhahn, Liqing Zhang Virginia Tech, Blacksburg, Virginia, USA; IBM, San Jose, California, USA
04:00 - 04:20pm:	A Hybrid Clustering Algorithm For Gene Expression Data Mohammad Shabbir Hasan, Zhong-Hui Duan The University of Akron, Akron, Ohio, USA
04:20 - 04:40pm:	An Algorithmic and Computational Analysis of Open Reading Frames in Short dsDNA Sequences: Evaluation of "Carr's Conjecture" Steven M. Carr, Donald Craig, H. Todd Wareham Memorial University of Newfoundland, Canada; Terra Nova Genomics, Inc., St John's, Canada
04:40 - 05:00pm:	Gene Expression Profile Classification in Random Feature Space Xiyi Hang California State University, Northridge, California, USA
05:00 - 05:20pm:	Grid Computing-based Sequence Alignment Mohamed Shalaby, Yasser Kamal Modern University for Information and Technology, Cairo, Egypt; Giza Higher Institute of Engineering & Technology, Egypt
05:20 - 05:40pm:	Bioinformatic Structure and Biophotonic Algorithm of the Brain Boucherit Taieb, Yagoubi Abdelkader, Lalam Abdelkhalek, and Boucherit Mounir Boucherit Laboratory, Oran, Algeria
05:40 - 06:00pm:	Biophotonic Algorithm of DNA, Biophotonic Language of DNA Boucherit Taieb, Yagoubi Abdelkader Boucherit Laboratory, Oran, Algeria
06:00 - 09:00pm:	TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES (Please see the lists at the begining of this book for details)
09:00 - 11:45pm:	CONFERENCE RECEPTION DINNER / SOCIAL July 21 - Monday; 09:00pm - 11:45pm (LOCATION: Ballrooms 1-5)

08:00 - 10:40am: During this period, BIOCOMP attendees are encouraged to participate in sessions belonging to ABDA'14, ICOMP'14, PDPTA'14, DMIN'14, ICAI'14, or IKE'14 conferences. These sessions discuss topics that significantly overlap the scope of BIOCOMP.

SECURITY & PRIVACY IN THE ERA OF BIG DATA & RISK ANALYSIS SESSION 4-ABDA: XXX + APPLICATIONS OF BIG DATA & SOFTWARE TOOLS + SOCIAL NETWORKS XXX Co-Chairs: Prof. Lan Yang; California State Polytechnic University, Pomona, CA, USA;

Dr. Muazzam A. Khan Khattak, National University of Science

& Technology, Islamabad, Pakistan July 22, 2014 (Tuesday); 10:40am - 12:40pm

(LOCATION: Copper Room)

10:40 - 11:00am: Some Risk Measures and Their Applications in Financial Data Analysis H. Haidar, B. Minsky, Q. Tang, R. Thapar, D. Yan, L. Zhang

University of Leicester, Leicester, UK; Sussex University, Brighton,

UK; Solo Capital Partners LLP, London, UK

11:00 - 11:20am: Secure Outsourcing Multiparty Computation on Lattice-based

Encrypted Cloud Data under Multiple Keys Yi Sun, Qiaoyan Wen, Hua Zhang, Zhengping Jin

State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, P. R. China

11:20 - 11:40am: Application-Agnostic Streaming Bayesian Inference via Apache Storm

Todd Wasson, Ana Paula De Oliveira Sales

Data Analytics and Decision Sciences, Lawrence Livermore National

Laboratory, Livermore, California, USA

11:40 - 12:00pm: Multicore Construction of k-d Trees for High Dimensional Point Data

Victor Lu, John C. Hart

University of Illinois at Urbana Champaign, Illinois, USA

ARIANA: Adaptive Robust and Integrative Analysis for Finding 12:00 - 12:20pm:

Novel Associations

Vida Abedi, Mohammed Yeasin, Ramin Zand Memphis University, Memphis, Tennessee, USA; Department of Neurology

University of Tennessee Health Science Center, Tennessee, USA

12:20 - 01:00pm: LUNCH (On Your Own)

SESSION 2-BIOCOMP: COMPUTATIONAL BIOLOGY & MEDICAL APPLICATIONS + HEALTH

INFORMATICS, DATA MINING + PROTEIN FOLDING

XXX Co-Chairs: Dr. Vitit Kantabutra; Idaho State University, Idaho, USA;

Dr. Otto Dobretsberger; University of Houston, Texas, USA

July 22, 2014 (Tuesday); 01:00pm - 03:00pm

(LOCATION: Platinum Room)

01:00 - 01:20pm: Determining Biological Trends Using Machine Learning Techniques

Regie Felix, Ambuj Singh, Nazli Dereli, Petko Bogdanov,

Nick Beck, Sophie D'Arcy, Sky Adams

University of California, Santa Barbara, California, USA;

CSU, San Bernardino, USA

Model of Diagnosis Knowledge Base Ontology Framework Based on 01:20 - 01:40pm:

Clinical Practice Guidelines Hala Almutair, Samir El-Masri King Saud University, Saudi Arabia;

Imam Mohammad bin Saud University, Saudi Arabia

01:40 - 02:00pm: Intentionally-Linked Entities: A Database System for Health

Care Informatics Vitit Kantabutra

Idaho State University, Pocatello, Idaho, USA

02:00 - 02:20pm: Blood Vessel Detection in Images from Laser-Heated Skin

Alireza Kavianpour, Simin Shoari, Behdad Kavianpour

DeVry University, Pomona, California, USA

02:20 - 02:40pm: Discovering Association Rules and Classification for Biological

Data using Data Mining Methods John Tsiligaridis, Michael Pagela

Heritage University, Toppenish, Washington, USA

02:40 - 03:00pm: SMIR: A Method to Predict the Residues Involved in the

Core of a Protein

Ruben Acuna, Zoe Lacroix, Jacques Chomilier, Nikolaos Papandreou

Arizona State University, Tempe, Arizona, USA; University Pierre et Marie Curie, Paris, France; Agricultural University of Athens, Athens, Greece;

Universite Paris Diderot, Paris, France

03:00 - 03:40pm: POSTER/DISCUSSION SESSION A-BIOCOMP

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. KBase: An Integrated Knowledge-base for Predictive Biology

and Environmental Research Anthony V. Palumbo, et al.

Oak Ridge National Laboratory, USA

O. Complex Networks Associated with Positive Selection and Drug

Resistance in the Malaria Parasite

Timothy G. Lilburn, Hong Cai, Yufeng Wang

American Type Culture Collection, Manassas, Virginia, USA;

South Texas Center for Emerging Infectious Diseases, University

of Texas at San Antonio, Texas, USA

O. Mining Structural Databases to Predict Catalytic Promiscuity

Revealed Two Novel Ene-reductases Georg Steinkellner, et al.

ACIB GmbH, Graz, Austria

O. Multivariate Point Cloud Comparator: Searching Different Proteins

for Similar Enzymatic Activity

Jurgen Stradner, Christian Gruber, Georg Steinkellner, Karl Gruber

ACIB GmbH, Graz, Austria; University of Graz, Austria

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SESSION 3-BIOCOMP: HEALTH INFORMATICS, HEALTH CARE, & MEDICAL APPLICATIONS

Chairs: TBA

July 22, 2014 (Tuesday); 03:40pm - 06:00pm

(LOCATION: Platinum Room)

03:40 - 04:00pm: Proposal of Smart Blood Banks Central Distribution System in

Saudi Arabia

Albatoul Althenyan, Samir El-Masri

Imam Muhammad Bin Saud University, Saudi Arabia;

King Saud University, Saudi Arabia

04:00 - 04:20pm: XXX FREE SLOT

04:20 - 04:40pm: XXX FREE SLOT

04:40 - 05:00pm: XXX FREE SLOT

05:00 - 05:20pm: Biomechanical Evaluation for Fibular Allograft Combined with Impaction

Bone Grafting in Treating the Femoral Head Necrosis: Thorough

Debridement or not?

Guangquan Zhou, Xiumin Chen, Zhihui Pang, Yujing Xu, Wei He,

Liao Shaoyi Stephen, Qinqun Chen

Guangzhou University of Chinese Medicine, Guangzhou, P. R. China; Guangdong Provincial Hospital of Chinese Medicine, China; University of Science and Technology of China-City, University of Hong Kong Joint Advanced Research Center, City University of Hong Kong, Hong Kong

05:20 - 05:40pm: Keratoconus Disease and Three-Dimensional Simulation of the Cornea

Throughout the Process of Cross-Linking Treatment

Hilal Kaya, Abdullah Cavusoglu, Hasan Basri Cakmak, Baha Sen,

and Elif Calik

Ministry of National Education, Ankara, Turkey; Scientific and Technological Research Council of Turkey, Ankara, Turkey; Yildirim Beyazt University, Ataturk Education and Research Hospital, Ankara,

Turkey; Yildirim Beyazt University, Ankara, Turkey; Karabuk

University, School of Health Sciences, Karabuk, Turkey

05:40 - 06:00pm: Wavelet Packet Based Diagnosis of Sleep Apnea Using ECG Data

Syeda Quratulain Ali, Varun Jeoti, Samir Brahim Belhaouari

Universiti Teknologi Petronas, Malaysia; Alfaisal University, Kingdom of Saudi Arabia

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

08:00 - 10:40am: During this period, BIOCOMP attendees are encouraged to participate in sessions belonging to ABDA'14, ICOMP'14, PDPTA'14, DMIN'14,

ICAI'14, or IKE'14 conferences. These sessions discuss topics that

significantly overlap the scope of BIOCOMP.

SESSION 7-ABDA: BIG DATA MANAGEMENT & FRAMEWORKS + BIG DATA PROGRAMMING

XXX Co-Chairs: Dr. Vida Abedi; University of Memphis, Tennessee, USA;
Dr. Fabian Garcia Nocetti; Universidad Nacional Autonoma

de Mexico, Mexico

July 23, 2014 (Wednesday); 10:40am - 12:00pm

(LOCATION: Copper Room)

10:40 - 11:00am: Design and Implementation of a Cloud-Based Big Data

Programming Service

Yen-Yu Lin, Xuan-Yi Lin, Jiazheng Zhou, Hsing-Chang Chou,

and Yeh-Ching Chung

National Tsing Hua University, Taiwan, R.O.C.

11:00 - 11:20am: Real-Time Data/Information Storage and Retrieval in

Autonomous AI Systems

James A. Crowder, John Carbone

Raytheon Intelligence, Information, & Services, Colorado, USA

11:20 - 11:40am: Transparency and Efficiency in Grid Computing for Big Data

Paul L. Bergstein

University of Massachusetts Dartmouth, Massachusetts, USA

11:40 - 12:00pm: Integration of Big Data Components for NoSQL Problems

Greg Speegle, Erich Baker

Baylor University, Waco, Texas, USA

12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 4-BIOCOMP: PROTEIN CLASSIFICATION & STRUCTURE PREDICTION, FOLDING, &

COMPUTATIONAL STRUCTURAL BIOLOGY + DRUG DESIGN + MACHINE LEARNING, SIGNAL PROCESSING & DATA QUALITY ENHANCEMENT +

DATABASES

XXX Chair (01:00pm - 03:00pm): Dr. Anthony V. Palumbo; Director, Biosciences Division, Oak Ridge National

Laboratory, Oak Ridge, Tennessee, USA;

XXX Chair (03:40pm - 05:20pm): TBA

July 23, 2014 (Wednesday); 01:00pm - 05:20pm

(LOCATION: Platinum Room)

01:00 - 01:20pm: An Efficient Algorithm for Protein-Protein Interaction Network

Analysis to Discover Overlapping Functional Modules

Ying Liu

St. John's University, Queens, New York, USA

01:20 - 01:40pm: Dynamic Protein-Protein Interaction Networks and the Detection

of Protein Complexes: An Overview Eileen Marie Hanna, Nazar Zaki

United Arab Emirates University, Al-Ain, Abu Dhabi,

United Arab Emirates (UAE)

01:40 - 02:00pm: Erythritol Promotes Interfacial Stability of GAPDH

Norbert W. Seidler, Jane M. Jones

Kansas City University of Medicine and Biosciences, Kansas City, Missouri, USA; University of Missouri - Kansas City School of

Medicine, Kansas City, Missouri, USA

02:00 - 02:20pm: Computational Methods for Protein-Protein Interaction Prediction

Maad Shatnawi, Nazar Zaki

United Arab Emirates University, United Arab Emirates (UAE)

02:20 - 02:40pm: BIOBase: An Adaptable Biometric Tool and Database

Christine Brown, Karl Ricanek, Devon M. Simmonds

University of North Carolina Wilmington, North Carolina, USA

02:40 - 03:00pm: Prediction and Rule Extraction of Major Histocompatibility

Complex Class II Epitopes by Logic Minimization

Clemente Aguilar-Bonavides, Raul Cruz-Cano, Cristina Lanzas University of Tennessee, Knoxville, Tennessee, USA; University

of Maryland, College Park, Maryland, USA

03:00 - 03:40pm: POSTER/DISCUSSION SESSION B-BIOCOMP

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Large-scale uniform Multivariate Point Cloud Investigator:

Searching for Enzymatic Activity in Structural Space by

Comparing Multivariate Point Clouds

Christian C. Gruber, Jurgen Stradner, Georg Steinkellner,

Hanna Lindermuth, Karl Gruber

ACIB GmbH, Graz, Austria; University of Graz, Austria

O. Contour Generation for a Depth Image

U Deok Seo, Ku-Jin Kim

Kyungpook National University, South Korea

O. Determination of "Realistic" Thresholds for Cumulative Differences

for Markov Chain Based Sequence Comparison

O. Dobretsberger, G. Golovko, M. Rojas, L. Albayrak, K. Khanipov,

N. Olson, W. Widger, Y. Fofanov

University of Houston, Houston, Texas, USA; University of Texas

Medical Branch (Galveston), Galveston, Texas, USA

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SESSION 4-BIOCOMP: Continued ... PROTEIN CLASSIFICATION & STRUCTURE PREDICTION, FOLDING, & COMPUTATIONAL STRUCTURAL BIOLOGY + DRUG DESIGN +

FOLDING, & COMPUTATIONAL STRUCTURAL BIOLOGY + DRUG DESIGN +
MACHINE LEARNING, SIGNAL PROCESSING & DATA QUALITY ENHANCEMENT

+ DATABASES

(LOCATION: Platinum Room)

03:40 - 04:00pm: Review of Research on Biological Literature Text Mining

Meijing Kong, Zhang Le

Southwest University, Chongqing, P. R. China; Michigan

Technological University, Houghton, Michigan, USA

04:00 - 04:20pm: XXX FREE SLOT

04:20 - 04:40pm: Automatic EEG Bad Epoch and Artifact Removal Using Clustering

Elizabeth Hames, Mary Baker

Texas Tech University, Lubbock, Texas, USA

04:40 - 05:00pm: Using Composite Digital Data to Improve the Interpretation of

Analog Displays Robert A. Warner

Tigard Research Institute, Tigard, Oregon, USA

05:00 - 05:20pm: BRATUMASS Source Separation: Multi-fractal Analysis for

Near-field Microwave Signal Feature

Limin Xiao, Zhifu Tao, Yizhou Yao, Meng Yao, Blair Fleet,

Erik D. Goodman, Jinyao Yan, John R. Deller

East China Normal University, Shanghai, P. R. China; Suzhou Vocational University, Suzhou, P. R. China; Shenyang University of Technology, Shenyang, P. R. China; Michigan State University,

East Lansing, Michigan, USA

05:20 - 06:00pm: INVITED TALK:

INTEGRATIVE SYSTEMS BIOLOGY APPROACHES TO IDENTIFY DISRUPTED

PATHWAYS IN DISEASE DEVELOPMENT

Mary Qu Yang

Director of the Joint Bioinformatics Ph.D. Program of University of Arkansas Little Rock College of Engineering & Information Technology, University of Arkansas for Medical Sciences, USA

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

08:00a - 12:40p: During this period, BIOCOMP attendees are encouraged to participate in sessions belonging to ABDA'14, ICOMP'14, PDPTA'14, DMIN'14, ICAI'14, or IKE'14 conferences. These sessions discuss topics that significantly overlap the scope of BIOCOMP.

SESSION 5-BIOCOMP: ONTOLOGY FRAMEWORKS + MICROARRAY DATASETS + MEDICAL SCIENCE, VISUALIZATION, HPC, BIOINFORMATICS

XXX Chair: Dr. Fabian Garcia Nocetti; Universidad Nacional Autonoma

de Mexico, Mexico

July 24, 2014 (Thursday); 12:40pm - 03:00pm

(LOCATION: Platinum Room)

NOTE: We anticipate a number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps in the session.

12:40 - 01:00pm: Treatment Ontology Framework of Clinical Practice Guidelines Eman Alqaissi, Samir El-Masri King Saud University, Riyadh, Saudi Arabia

01:00 - 01:20pm: Investigating the Stability of Housekeeping Genes Using

Microarray Datasets

Fariba Nosrati, Ayse Bener, Asli Uyar Ryerson University, Toronto, Canada; Okan University, Istanbul, Turkey

01:20 - 01:40pm: Optimal Scaling Values For Time-Frequency Distributions in

Doppler Ultrasound Blood Flow Measurement

F. Garcia Nocetti, J. Solano Gonzalez, E. Rubio Acosta Instituto de Investigaciones en Matematicas Aplicadas y en Sistemas, Universidad Nacional Autonoma de Mexico, Mexico

01:40 - 02:00pm: An Interactive Visualization Tool to Interpret Transcriptomics Data Salil Pendse. Patrick D. Mcmullen

The Hamner Institutes for Health Sciences, RTP, North Carolina, USA

02:00 - 02:20pm: WMS4HPC, a Workflow Management System Bridge for High Performance

Computing in Life Science Data Management Etienne Z. Gnimpieba, Carol M. Lushbough University of South Dakota, South Dakota, USA

02:20 - 02:40pm: SBMLChecker, a Semantic Approach for SBML Model Reliability Evaluation

Mathialakan Thavappiragasam, Carol M. Lushbough, Etienne Z. Gnimpieba

University of South Dakota, South Dakota, USA

02:40 - 03:00pm: Biological System Analysis Using Integrated Bioinformatics Tools:

Levels of the Central Dogma in Folate Mediate One-Carbon

Metabolism (FOCM)

Jordy Larson, Etienne Z. Gnimpieba, Abalo Chango, Carol M. Lushbough

University of South Dakota, South Dakota, USA;

UPSP EGEAL, Institut Polytechnique LaSalle Beauvais, Beauvais, France

03:00 - 03:40pm: POSTER/DISCUSSION SESSION C-BIOCOMP

July 24, 2014 (Thursday)

(LOCATION: Hallways of Ballrooms 1-5)

- O. Computation of a Bounding Volume Hierarchy for a Flexible Amino Acid Yukyeong Kim, Ku-Jin Kim Kyungpook National University, South Korea
- O. Bayesian Inference of Epidemic Parameters
 Alex Popinga
 University of Auckland, Auckland, New Zealand; Allan Wilson Centre
- for Molecular Ecology and Evolution, New Zealand
 O. A Study of the Integration of Biomedical Devices with Information
- Technology Systems with an emphasis on Information Quality Jim Mcginnis University of Arkansas Fort Smith, USA; University of Arkansas Little Rock, USA
- O. Molecular Epidemiology and Characterization of Extremely Drug Resistant (XDR) Clinical Acinetobacter baumannii Isolates Sherief El-Shazly, Ali Dashti, Leila Vali, Michael Bolaris, and Ashraf Ibrahim Health Sciences Center, Kuwait University, Kuwait; Los Angeles Biomedical Research Institute at Harbor-UCLA Medical Center, California, USA
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DMIN'14 CONFERENCE SCHEDULE

The 2014 International Conference on Data Mining

There are a number of other sessions (not listed as part of DMIN'14 in this schedule) that are of potential interest to DMIN'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in IKE'14, ICAI'14, ICOMP'14, ABDA'14, GEM'14, and EEE'14 conferences discuss topics that are within the scope of DMIN'14; these have been scheduled so that selected DMIN'14 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

01:00 - 01:20pm: OPENING REMARKS

Dr. Robert Stahlbock; DMIN 2014 Chair, University of Hamburg, Germany

SESSION 1-DMIN: WEB, TEXT, MULTIMEDIA MINING

Co-Chairs: Dr. Robert Stahlbock; University of Hamburg, Germany;

Dr. Peter Geczy; National Institute of Advanced Industrial

Science and Technology (AIST), Japan;

Dr. Gary M. Weiss; Fordham University in New York City, USA

July 21, 2014 (Monday); 01:20pm - 04:40pm

(LOCATION: Ballroom 1)

01:20 - 01:40pm: Sub-Net Identification for Text Refinement and Text Meaning Discovery

in Social Media Analytics

Gurpreet Bawa, Dinesh Batra, Vivek Anand Annik Technology Services Pvt. Ltd, India

01:40 - 02:00pm: Semi-automatic Metadata Extraction from Scientific Journal Article

for Full-text XML Conversion

Sukyoung Kim, Yoonsung Cho, Inbae Kang, Kihong Ahn

National Hanbat University, Korea

02:00 - 02:20pm: The Authorship of Audacity: Data Mining and Stylometric Analysis

of Barack Obama Speeches

Jonathan Herz, Abdelghani Bellaachia

George Washington University, Washington, D.C., USA

02:20 - 02:40pm: Text Categorization Using Topic Model and Ontology Networks

Yinghao Huang

University of Michigan - Dearborn, Michigan, USA

02:40 - 03:00pm: Personalizing Query Refinement Based on Latent Tasks

Chao Xu, Mingzhu Zhu, Yi-fang Wu

New Jersey Institute of Technology, New Jersey, USA

03:00 - 03:40pm: BREAK: POSTER & SHORT PAPERS - DISCUSSION SESSION A-DMIN

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Implementation of Artificial Neural Networks in MapReduce Optimization

Changlong Li, Xuehai Zhou, Dong Dai

University of Science and Technology of China, Jiangsu, P. R. China; University of Science and Technology of China, Anhui, P. R. China;

Texas Tech University, Texas, USA

O. Computational Approach that Allows Clustering of Millions of Genomic

Sequences

Levent Albayrak, Georgiy Golovko, Mark Rojas, Kamil Khanipov,

Otto Dobrestberger, Meenakshi Sharma, Yuriy Fofanov

Sealy Center for Structural Biology & Mol Department of Pharmacology &

Toxicology, University of Texas, Medical Branch at Galveston, USA

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SESSION 1-DMIN: Continued - WEB, TEXT, MULTIMEDIA MINING

(LOCATION: Ballroom 1)

03:40 - 04:00pm: Positive Unlabeled Learning to Discover Relevant Documents Using

Topic Models for Feature Selection

Mingzhu Zhu, Yi-fang Wu

New Jersey Institute of Technology, New Jersey, USA

04:00 - 04:20pm: A Framework for Flexible Educational Data Mining

Kyle DeFreitas

University of the West Indies, West Indies

04:20 - 04:40pm: Determination of Fake Reviews in Hospitality Sector

Manish Goswami, S. K. Gupta

Indian Institute of Technology, Delhi, India

04:40 - 06:00pm: During this period, DMIN attendees are encouraged to participate

in sessions belonging to IKE'14, ICAI'14, ICOMP'14, ABDA'14, GEM'14,

and EEE'14 conferences. These sessions discuss topics that

significantly overlap the scope of DMIN'14.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 2-DMIN: REGRESSION, CLASSIFICATION, CLUSTERING, ASSOCIATION

Co-Chairs: Dr. Robert Stahlbock; University of Hamburg, Germany;

Dr. Gary M. Weiss; Fordham University in New York City, USA

July 22, 2014 (Tuesday); 08:00am - 12:00pm

(LOCATION: Ballroom 1)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Feature Selection by Tree Search of Correlation-Adjusted Class

Hassan Rabeti, Martin Burtscher Texas State University, Texas, USA

08:40 - 09:00am: Multi-Level Synthesis of Frequent Rules from Different Databases

Using a Clustering Approach

Salim Khiat, Belbachir hafida, Rahal Sid Ahmed

University of Science and Technology USTO National School

Polytechnique ENPO, Algeria

09:00 - 09:20am: Mammogram Classification Using Association Rule Mining

Deepa Deshpande

Jawaharlal Nehru Engineering College, India

09:20 - 09:40am: Feature Engineering for Supervised Link Prediction on Dynamic

Social Networks

Jeyanthi Narasimhan, Lawrence Holder

Washington State University, Washington, USA

09:40 - 10:00am: A Flexible Feature Selection Framework for Improving Breast Cancer

> Classification from Sparse Spectrum Count Proteomic Data Lanfei Shi, Himanshu Grover, Jeya Balaji Balasubramanian, Kumar Kolli, Craig Shriver, Vanathi Gopalakrishnan

University of Pittsburgh, Pittsburgh, USA

10:00 - 10:20am: Optimization of an Individual Re-identification Modeling Process

Using Biometric Features

Alejandro Heredia-Langner, Brett Amidan, Shari Matzner, Kristin Jarman

Pacific Northwest National Laboratory, Richland, Washington, USA

BREAK 10:20 - 10:40am:

10:40 - 11:00am: For the Sake of More Reliable Over-Sampled Data Instances for a

Minor Class

Hyontai Sug, Douglas D. Dankel II

Dongseo University, Korea

11:00 - 11:20am: Entropy Based Adaptive Outlier Detection Technique for Data Streams

Yogita Thakran, Durga Toshniwal, Bhavani Kumar Eshwar

Indian Institute of Technology Roorkee, India

Author Attribution of Thomas Paine Work 11:20 - 11:40am:

Smiljana Petrovic, Gary Berton, Robert Schiaffino, Lubomir Ivanov

Iona College, Department of Computer Science, New Rochelle,

New York, USA

11:40 - 12:00pm: Generating Well-Behaved Learning Curves: An Empirical Study

> Gary Weiss, Alexander Battistin Fordham University, New York, USA

12:00 - 01:00pm: INVITED LECTURE:

BIG DATA ISSUES FOR MINING KNOWLEDGE IN MAINTENANCE INFORMATION

SYSTEMS

Prof. Diego Galar

Division of Operation and Maintenance Engineering, Lulea University of Technology, Lulea, Sweden; Former Pro-Vice-Chancellor, Aragon

Institute for Engineering Research (I3A), Aragon, Spain

(LOCATION: Ballroom 1)

01:00 - 02:00pm: LUNCH (On Your Own)

02:00 - 03:00pm: During this period, DMIN attendees are encouraged to participate

in sessions belonging to IKE'14, ICAI'14, ICOMP'14, ABDA'14, GEM'14,

and EEE'14 conferences. These sessions discuss topics that

significantly overlap the scope of DMIN'14.

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-DMIN

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 04:20pm: INVITED LECTURE:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-

REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria

School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY

INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter

Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS: Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 3-DMIN: REAL-WORLD DATA MINING APPLICATIONS, CHALLENGES, & PERSPECTIVES

Co-Chairs: Dr. Mahmoud Abou-Nasr; Ford Motor Company, USA;

Dr. Robert Stahlbock; University of Hamburg, Germany;

Dr. Gary M. Weiss; Fordham University in New York City, USA

July 23, 2014 (Wednesday); 08:00am - 12:00pm

(LOCATION: Ballroom 1)

08:00 - 08:20am: XXX Identifying Outliers in Human Movement Trajectories Clustered

By Hausdorff Distance

Shibin Parameswaran, Ellen Jeff

Space and Naval Warfare Systems Center Pacific (SPAWAR), California, USA

08:20 - 08:40am: Mechanical Property Classification of VGCNF/VE Nanocomposites

Using Support Vector Machines

Osama Abuomar, Sasan Nouranian, Roger King, Trenton Ricks, and

Thomas Lacv

Mississippi State University, Center for Advanced Vehicular Systems,

Mississippi, USA

08:40 - 09:00am: APPES Maps as Tools for Quantifying Performance of Truck Drivers

Iulian Carpatorea, Nowaczyk Slawomir, Thorsteinn Rognvaldsson, and

Marcus Elmer

Halmstad University, Halmstad, Sweden

09:00 - 09:20am: Distributed Multi-objective Evolutionary Algorithm for Clustering

Multi-Characteristic Social Network

Mustafa Hajeer, Dipankar Dasgupta, King-Ip Lin University Of Memphis, Memphis, Tennessee, USA

09:20 - 09:40am: A New Effective Information Decomposition Approach for Missing

Data Recovery Shigang Liu

Deakin University, Australia

09:40 - 10:00am: Predicting Causes of Traffic Road Accidents Using Multi-class

Support Vector Machines

Elfadil Mohamed

College of Business Administration, Al Ain University, United Arab

Emirates (UAE)

Gold, Oil and the S&P 500 Index: Calm to Crisis and Back Mary Malliaris, A. G. Malliaris 10:00 - 10:20am:

Loyola University, Chicago, Illinois, USA

10:20 - 10:40am: **BREAK**

10:40 - 11:00am: Development of a Prediction Model to Estimate the Effect of Nerve

Guidance Conduits Applied for Peripheral Nerve Injury Based on

Bootstrap Aggregated Neural Networks

Munish Shah, Wei Chang, Kathleen McGuire, Wil Koch, Yan Meng, and

Xiaojun Yu

Stevens Institute of Technology, New Jersey, USA

The Significance of the Race Factor in Breast Cancer Prognosis 11:00 - 11:20am:

M. Mehdi Owrang

American University, Washington, D.C., USA

Automatic Solar Cavity Detection Using Haar Cascade Classifier 11:20 - 11:40am:

Aijuan Dong

Hood College, Frederick, Maryland, USA

11:40 - 12:00pm: A Proposed Data Mining Model for the Associated Factors of

Alzheimer's Disease

Nevine Labib

British University in Egypt, Sadat Academy for Management Sciences,

Egypt

12:00 - 01:00pm: INVITED LECTURE:

DATA SCIENCE EMERGENCE

Dr. Peter Geczy

National Institute of Advanced Industrial Science and Technology (AIST), Japan; Institute of Physical & Chemical Research (RIKEN); Research Center

for Future Technologies
(LOCATION: Ballroom 1)

01:00 - 02:00pm: LUNCH (On Your Own)

02:00 - 03:00pm: During this period, DMIN attendees are encouraged to participate

in sessions belonging to IKE'14, ICAI'14, ICOMP'14, ABDA'14, GEM'14,

and EEE'14 conferences. These sessions discuss topics that

significantly overlap the scope of DMIN'14.

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-DMIN

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 06:00pm: During this period, DMIN attendees are encouraged to participate

in sessions belonging to IKE'14, ICAI'14, ICOMP'14, ABDA'14, GEM'14,

and EEE'14 conferences. These sessions discuss topics that

significantly overlap the scope of DMIN'14.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

July 24

06:45a - 05:00p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:00a - 05:40p: During this period, DMIN attendees are encouraged to participate

in sessions belonging to IKE'14, ICAI'14, ICOMP'14, ABDA'14, GEM'14,

and EEE'14 conferences. These sessions discuss topics that

significantly overlap the scope of DMIN'14.

FCS'14 & ESA'14 & MSV'14 & CSC'14 CONFERENCE SCHEDULES

The 2014 International Conference on Foundations of Computer Science (FCS'14)

+

The 2014 International Conference on Embedded Systems and Applications (ESA'14)

+

The 2014 International Conference on Modeling, Simulation and Visualization Methods (MSV'14)

+

The 2014 International Conference on Scientific Computing (CSC'14)

Because of partial topical and technical overlap between FCS'14, ESA'14, MSV'14, & CSC'14, the schedule of these conferences are merged into one comprehensive schedule. It is hoped that this would encourage the participants of the four conferences to explore cross-fertilization of ideas. There are also a number of other sessions (not listed as part of these four conferences) that are of potential interest to FCS'14, ESA'14, MSV'14, and CSC'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in ABDA'14, FECS'14, ICOMP'14, ICWN'14, and IPCV'14 conferences discuss topics that are within the scope of FCS'14, ESA'14, MSV'14, and CSC'14; these have been scheduled so that selected FCS'14, ESA'14, MSV'14, and CSC'14 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force

on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-FCS: EVOLVING SYSTEMS + GRAPH ALGORITHMS + MATH WORDS

XXX Co-Chairs: Dr. Mebougna Laze Drabo; Alabama A&M University,

Alabama, USA;

Joyshree Nath; St. Xavier's College (Autonomous), India

July 21, 2014 (Monday); 01:00pm - 02:20pm

(LOCATION: Silver Room)

01:00 - 01:40pm: INVITED LECTURE: (PROVISIONAL)

EVOLVING SYSTEMS

Igor Schagaev, Luc Blaeser, Simon Monkman London Metropolitan University, London, UK; Hochschule fur Technik Rapperswil, Switzerland;

ITACS Ltd, Stevenage, England

01:40 - 02:00pm: Asynchronous P Systems for Uniform Graph Partitioning and

Related Graph Problems

Kota Hasuo, Akihiro Fujiwara

Kyushu Institute of Technology, Japan

02:00 - 02:20pm: Math Words and their Dendrograms

Casanova-Del-Angel Francisco

SEPI ESIA Campus ALM of the Polytechnic National Inst., Mexico

SESSION 2-ESA: EMBEDDED SYSTEMS + HPC + SENSORY DEVICES + NETWORK ON CHIP

SYSTEMS AND APPLICATIONS

XXX Co-Chairs: Prof. Ken Ferens; University of Manitoba, Canada;
Dr. Mebougna Laze Drabo; Alabama A&M University,

Alabama, USA

July 21, 2014 (Monday); 02:20pm - 06:00pm

(LOCATION: Silver Room)

02:20 - 02:40pm: A Computer Engineering Approach to Detect, Prevent and

Manage Diabetic Foot Diseases

Olawale David Jegede, Ken Ferens, Bruce Griffith,

Blake Podaima, Ramin Soltanzadeh

University of Manitoba, Winnipeg, Canada; Avriel International Inc., Winnipeg, Canada; Internet Innovations Center, Winnipeg, Canada

02:40 - 03:00pm: Criteria-based Research on Fundamentals of Embedded System

Development in Higher Education Steffen Buchner, Sigrid Schubert

Didactics of Informatics and E-Learning, University of Siegen, Siegen, Germany

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-FCS-ESA-MSV-CSC

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. The Development of NFC-based Medication Management System

for Elderly Patients Taebok Yoon, Jonghee Lee

Department of Computer Software, Seoil University, South Korea;

Department of Strategic Planning, INPOESTI Company, Seoul,

South Korea

O. Instruction Cache Pre-Loading Method to Reduce Initial Cold-Misses

using SDRAM Burst Transfer

Hyo-Joong Suh

School of Computer Science and Information Engineering,

The Catholic University of Korea, Korea

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SESSION 2-ESA: Continued ... EMBEDDED SYSTEMS + HPC + SENSORY DEVICES +

NETWORK ON CHIP SYSTEMS AND APPLICATIONS

(LOCATION: Silver Room)

03:40 - 04:00pm: Embedded MTT-DAS Application Prototyping on an FPGA Based

Multiprocessor Architecture Benaoumeur Senouci, Smail Niar

University of Burgundy, LE2I Laboratory, Dijon, France;

University of Valenciennes Hainaut-Cambresis, Valenciennes, France

04:00 - 04:20pm: Reducing DDR Latency for Embedded Image Steganography

James Haralambides, Lukas Bijaminas

Barry University, Miami Shores, Florida, USA

04:20 - 04:40pm: Dynamic-prelink: An Enhanced Prelinking Mechanism without

Modifying Shared Libraries

Hyungjo Yoon, Changwoo Min, Young Ik Eom

Sungkyunkwan University, Korea; Samsung Electronics, Korea

04:40 - 05:00pm: XXX A Tail Recursive Scheme for Exact Real Number Computation

Based on LRT, GMP and FC++

J. Raymundo Marcial-Romero, J. A. Hernandez, Vianney Munoz,

Guillermo De Ita, Lourdes Rivas

Facultad de Ingenieria, UAEM, Toluca, Mexico;

Facultad de Ciencias de la Computacin, BUAP, Puebla, Mexico

05:00 - 05:20pm: Hardware/Software Co-design of Particle Filter in Grid

Based Fast-SLAM Algorithm

B. G. Sileshi, C. Ferrer, J. Oliver

Universitat Autonoma de Barcelona, Bellaterra (Barcelona), Spain; Institut de Microelectronica de Barcelona (CNM-CSIC), Bellaterra

(Barcelona), Spain

05:20 - 05:40pm: A Cognitive Approach for Stroke Rehabilitation by Acute

Hand Monitoring

R. Hema Barathi, D. Ramya Priyadarshini, K. Sowmya, M. Ramalatha Department of Information Technology, Kumaraguru College of

Technology, Coimbatore, India

05:40 - 06:00pm: XXX Intelligent and Secure Routing in Heterogeneous Wireless Networks

Suman, Parvinder Singh, R. B. Patel

Deenbandhu Chhotu Ram University of Science and Technology, India; G. B. Pant Engineering College, Ghurdauri, Uttarakhand, India;

AND

XXX A Review of Handover Schemes in Overlaid Macro-femto Cellular Networks

Suman Deswal, Anita Singhrova

Deenbandhu Chhotu Ram University of Science and Technology, India

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 3-CSC: COMPUTATIONAL SCIENCE, OBJECT ORIENTED METHODS,

FINITE ELEMENT ANALYSIS AND METHODS, & SIMULATION

XXX Co-Chairs: Dr. Asoke Nath; St. Xavier's College (Autonomous), India;

Fatima Allali; Faculty of Science and Technology,

Cadi Ayyad Universiy Marrakech, Morocco

July 22, 2014 (Tuesday); 08:00am - 10:20am

(LOCATION: Silver Room)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Particle-Wave Unification: An Object-Oriented Approach to

Equilibrium-Based Computing

Wen-Ran Zhang

Georgia Southern University, Statesboro, Georgia, USA

08:40 - 09:00am: Finite Element Analysis of Five-Transmission Lines Embedded

in Four-Layered Dielectric Media Sarhan M. Musa, Matthew N. O. Sadiku

Roy G. Perry College of Engineering, Prairie View A&M

University, Prairie View, Texas, USA

09:00 - 09:20am: Quasi-TEM Analysis of Multilayer Coplanar Waveguide Broadside

Coupled Lines Balun

Sarhan M. Musa, Matthew N. O. Sadiku

Roy G. Perry College of Engineering, Prairie View A&M

University, Prairie View, Texas, USA

09:20 - 09:40am: Comparison of Interval and Monte Carlo Simulation for Uncertainty

Propagation in Atmospheric Dispersion Model

El Abed El Safadi, Olivier Adrot, Jean-Marie Flaus Laboratory: Grenoble - Sciences pour la Conception,

l'Optimisation et la Production (G-SCOP), Grenoble, France

09:40 - 10:00am: Numerical Stabilisation of the Lattice Boltzmann Method for

Higher Reynolds Number Fluid

Nicolas Maquignon, Julien Duchateau, Gilles Roussel,

Francois Rousselle, Christophe Renaud

Lab. Informatique Signal et Image de la Cote d'Opale, France;

Universite du Littoral Cote d'Opale, France;

Innocold - Institut Technologique du Froid - MREI1, France

10:00 - 10:20am: DSP Filter Calculation for a Digital Doppler Velocity Flow Meter

Daniel L. Garcia, Daren R. Wilcox

Southern Polytechnic State University, Marietta, Georgia, USA

10:20 - 10:40am: BREAK

SESSION 4-MSV: SIMULATION, NUMERICAL METHODS, & APPLICATIONS +

VISUALIZATION, GRAPHICS, TOOLS & TECHNIQUES

XXX Chair: Dr. Devinder Kaur; University of Toledo, Ohio, USA

July 22, 2014 (Tuesday); 10:40am - 12:40pm

(LOCATION: Silver Room)

10:40 - 11:00am: XXX Simulink Model of a Full State Observer for a DC Motor

Position, Speed, and Current

Louiza Sellami

US Naval Academy, Annapolis, Maryland, USA

11:00 - 11:20am: Interoperability Of Devs And C-Bml Simulation Models

Elizabeth Hosang, Gabriel A. Wainer

Department of Systems and Computer Engineering, Carleton University, Ottawa, Ontario, Canada

11:20 - 11:40am: A Simulation Approach for Traffic Management

Karmel Manaa

University Of Northumbria, Newcastle, UK

11:40 - 12:00pm: Parallel Coordinates for Visualization of Rules Developed

Using Grammatical Evolution Musbah Abdulgader, Devinder Kaur

Department of Electrical Engineering and Computer Science,

University of Toledo, Toledo, Ohio, USA

12:00 - 12:20pm: Clustered Data Separation via Barycentric Radial Visualization

Adam Russell, Robert Marceau, Frank Kamayou, Karen Daniels,

and Georges Grinstein

Computer Science Department, University of Massachusetts Lowell,

Lowell, Massachusetts, USA

12:20 - 12:40pm: The Singular Properties of the Hermit Curve on Unit Circle

Ching-Shoei Chiang, Ching-Tsorng Tsai Soochow University, Taiwan, R.O.C.; Tunghai University, Taiwan, R.O.C.

SESSION 5-FCS: AUTOMATED TESTING + SCHEDULING SYSTEMS + GRAPH LOGIC MODEL

Chairs: TBA

July 22, 2014 (Tuesday); 01:00pm - 02:00pm

(LOCATION: Silver Room)

01:00 - 01:20pm: Model-based Automated Testing Using a Record-Replay Mechanism

Junwon Kang, Hyunmin Yoon, Jaemoon Seo, Joongwon Roh, Minsoo Ryu

Hanyang University, Seoul, South Korea

01:20 - 01:40pm: Fixed Share Scheduling via Dynamic Weight Adjustment in

Proportional Share Scheduling Systems

Hyungwoo Kim, Hyunmin Yoon, Peng Wu, Minsoo Ryu

Hanyang University, Seoul, South Korea

01:40 - 02:00pm: Control Operators vs Graph Logic Model

Igor Schagaev

London Metropolitan University, London, UK

SESSION 6-ESA: FORMAL MODELING + ANALYSIS & OPTIMIZATION

+ MICRO-CONTROLLER DESIGN

XXX Chair: Dr. Asoke Nath; St. Xavier's College (Autonomous), India

July 22, 2014 (Tuesday); 02:00pm - 03:00pm

(LOCATION: Silver Room)

02:00 - 02:20pm: Formal Modeling and Verification of Dynamic Reconfiguration of

Autonomous Robotics Systems Yujian Fu, Steven Drager

Department of Computer Science, School of Engineering and

Technology, Alabama A&M University, Alabama, USA;

Air Force Research Lab, RITA Branch, USA

02:20 - 02:40pm: Analysis and Optimization of Paradigm Microprograms

Victor Winter, James Mccoy, Dominic Montoya, Greg Wickstrom Department of CS, University of Nebraska at Omaha, USA;

Sandia National Laboratories, USA

02:40 - 03:00pm: Design and Implementation of Microcontroller-Based R-F Remote

Controlled Safe With Digital Code Lock and Indicator

Nwachukwu-Nwokeafor K.C., Chukwugoziem Ihekweaba, Emenike Ukeje

Michael Okpara University of Agriculture, Nigeria

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-FCS-ESA-MSV-CSC

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. A Study on the Public Opinion on the Issue of Cost Sharing in Higher Education Hsiu-Hsi Liu

Research Center for Educational System and Policy, National Academy for Educational Research, Taiwan, R.O.C.

O. The Modelling Design of Human Interface for Arm Strength Training Machine with Biofeedback Tze-Yee Ho, Yuan-Joan Chen, Chih-Hao Chiang, Wei-Chang Hung Feng Chia University, Taiwan, R.O.C.; Ling Tung University, Taiwan, R.O.C.

- O. Exponential Dissipativity of Discrete-time Switched Systems With Time-varying Delays J. H. Park, K. Mathiyalagan, S. M. Lee, J. H. Yoo Yeungnam University; Daegu University, South Korea
- Numerical Analyses of the Expansive Flow of a Thrust-Vectoring Nozzle Tsung Leo Jiang, Yan-Yi Liu, Hsiang-Yu Huang Department of Aeronautics and Astronautics, National Cheng Kung University, Taiwan, R.O.C.
- O. The Implementation of Windowing Human Interface for Arm Strength Training Machine Tze-Yee Ho, Mu-Song Chen, Chih-Hao Chiang, Wei-Chang Hung Feng Chia University; Da-Yeh University, Taiwan, R.O.C.
- 0.

03:40 - 04:20pm: INVITED LECTURE:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria School of Innovation, Douglas County, Colorado, USA (LOCATION: Ballroom 4)

04:20 - 06:00pm: PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES 06:00 - 09:00pm: (Please see the lists at the begining of this book for details)

SESSION 7-CSC: FINITE ELEMENT METHODS + ODE + KALMAN FILTER APPLICATIONS +

SIMULATION MODELS + ELASTICITY THEORY

Chairs: TBA

July 23, 2014 (Wednesday); 08:00am - 10:20am

(LOCATION: Silver Room)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: A Finite Difference-extrapolation Method for Solving Ordinary

Differential Equations

Adel N. Boules

University of North Florida, Jacksonville, Florida, USA

08:40 - 09:00am: Kalman Filter Based Safety Application

Rawa Adla, Nizar Al-Holou, Youssef Bazzi University of Detroit Mercy, Michigan, USA

09:00 - 09:20am: Flow Simulation Models for WinDAM

Mitchell L. Neilsen

Kansas State University, Manhattan, Kansas, USA

09:20 - 09:40am: Periodic, Aperiodic, and Partly Periodic Clocks in

Scientific Simulations

Clarence Lehman, Adrienne Keen

University of Minnesota, Saint Paul, Minnesota, USA; London School of Hygiene and Tropical Medicine, London, UK

09:40 - 10:00am: Application of SolidWorks and AMESim-based Updated Simulation

Technique to Back-flow Analysis of Trochoid Hydraulic Pump for

Lubrication

Seungwon Jeong, Wonjee Chung, Mansu Kim, Myungsik Kim School of Mechatronics, Changwon National University, South Korea; Flutek, Gyeongsangnam-do, South Korea

10:00 - 10:20am: Nonlinear Free Vibration of Nanobeams Subjected to Magnetic

Field Based on Nonlocal Elasticity Theory

Tai-Ping Chang, Quey-Jen Yeh

Department of Construction Engineering, National Kaohsiung First University of Science and Technology, Kaohsiung, Taiwan; Department of Business Administration, National Cheng-Kung

University, Tainan, Taiwan

10:20 - 10:40am: BREAK

SESSION 8-ESA: MICRO-CONTROLLERS, MICRO-PROCESSORS, PROGRAMMING, SOFTWARE

SYSTEMS AND RELATED ISSUES

XXX Chairs: David O. Jegede; University of Manitoba, Canada

XXX July 23, 2014 (Wednesday); 10:40am - 01:00pm

(LOCATION: Silver Room)

10:40 - 11:00am: Rift Runner - Engineering Software for a Remotely

Controlled Rover

Erik Willis Sean Saunders, Nathan Cate, Jean-Paul Muyshondt,

and Devon M. Simmonds

University of North Carolina Wilmington, North Carolina, USA

11:00 - 11:20am: Lumousoft Visual Programming Language and its IDE

Xianliang Lu

Lumousoft Inc., Waterloo, Ontario, Canada

11:20 - 11:40am: Wireless Analyzer of ISOBUS

Enkhzul Doopalam, Badarch Luubaatar, Amaruvshin Togooch,

and Enkhbaatar Tumenjargal

School of Information and Communications Technology, Mongolian University of Science an Technology, Ulaanbaatar, Mongolia

11:40 - 12:00pm: Design and Implementation Of a Microcontroller Based Egg

Incubator With Digital Temperature Read Out

T. Obidiwe Anthony, Ihekweaba Chukwugoziem, Aguodoh Patrick Michael Okpara University of Agriculture Umudike, Nigeria

12:00 - 12:20pm: The Design of an Embedded Self-Diagnostic Hybrid Aquarium

Control System

Chiagunye Tochukwu, Ihekweaba Chukwugoziem

Michael Okpara University of Agriculture, Nigeria

12:20 - 12:40pm: Design of a Standalone FORTH Intepreter for the Microchip

PIC24F Family Byron A. Jeff

Clayton State University, Morrow, Georgia, USA

12:40 - 01:00pm: XXX An Adaptive Cryptographic and Embedded System Design with

Hardware Virtualization

Chun-Hsian Huang

Department of Computer Science and Information Engineering,

National Taitung University, Taiwan, R.O.C.

01:00 - 01:40pm: LUNCH (On Your Own)

SESSION 9-FCS: GRAPH ALGORITHMS + COMPUTATIONAL SCIENCE + STATE MACHINE

LANGUAGE & OPTIMIZATION METHODS

XXX Co-Chairs: Dr. Asoke Nath; St. Xavier's College (Autonomous), India;

Joyshree Nath; St. Xavier's College (Autonomous), India

July 23, 2014 (Wednesday); 01:40pm - 03:00pm

(LOCATION: Silver Room)

01:40 - 02:00pm: Improved Computing Performance for Finding the Shortest

Path in Extended Graph

Lau Nguyen Dinh, Chien Tran Quoc, Thanh Le Manh College of Transport No II, Danang, Vietnam; Danang University of Education, Danang, Vietnam;

University of Hue, Hue, Vietnam

02:00 - 02:20pm: XXX FREE SLOT

02:20 - 02:40pm: Concrete State Machine Language

Nelson Rushton

Texas Tech University, Texas, USA

02:40 - 03:00pm: Modelling and Optimization in the Interval Uncertainty

Vitaly I. Levin

Penza State Technological University, Penza, Russia

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-FCS-ESA-MSV-CSC

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. The Virtual Device Managing Module of the Metaverse Assisted Living Support System

Eunjin Ko, Jonghyun Jang

Electronics and Telecommunications Research Institute (ETRI),

South Korea

- O. Real-time Radar Data Visualization Giti Javidi, Ehsan Sheybani, Danielle Mason Virginia State University, Virginia, USA
- O. Simulated Spaceborne Numerical Convergence Study Jamiiru Luttamaguzi, Ka'Ren Byrd, Akbar Eslami, Giti Javidi, and Ehsan Sheybani Virginia State University, Virginia, USA; Elizabeth City State University, USA
- O. H infinity Sampled-Data Control of LPV Systems with Time-varying Delay
 H. Y. Jung, Ju H. Park, S. M. Lee
 Department of Electrical Engineering, Yeungnam University, Korea; School of Eletronics Engineering, Daegu University, Korea
- O. A Dynamical System Approach to Compute the Evolutions of Daily Commuting Traffics Interacted with Travel Time Information Ming-Chorng Hwang, Hsun-Jung Cho, Chieh-Yang Chen National Chiao Tung University, Hsinchu, Taiwan, R.O.C.;

0. ...

SESSION 10-MSV: MODELING AND APPLICATIONS

Chairs: TBA

July 23, 2014 (Wednesday); 03:40pm - 05:40pm

(LOCATION: Silver Room)

03:40 - 04:00pm: Lifecycle Modeling Methodology for Service Architecture: Toward

a Framework-of-Frameworks for Context-to-Code Modeling

R. William Maule

Information Sciences Department, Naval Postgraduate School,

Monterey, California, USA

04:00 - 04:20pm: A Meta Model for Predictive Analysis of Modifications on HPDC

Infrastructures

Christian Straube, Dieter Kranzlmueller Munich Network Management (MNM) Team,

Ludwig-Maximilians-Universitaet Muenchen (LMU), Germany

04:20 - 04:40pm: Comparing Collective Behaviour of Socio-Physical Models

C. B. Butt, D. P. Playne, K. A. Hawick

Computer Science, Massey University, Auckland, New Zealand;

Computer Science, University of Hull, Hull, UK

04:40 - 05:00pm: Reducing the Modeling Error in Different Observer Based Regulators

Cs. Banyasz, L. Keviczky

Computer and Automation Research Institute, Hungarian Academy

of Sciences, Budapest, Hungary

05:00 - 05:20pm: Model Design for Scheduling Multiple Factory Cranes in

Manufacturing Floor

Hee-Jin Lee, Kwang-Yeol Ryu, Sang-Il Lee, Ho-Yeun Ryu, Hui-Chul Lee

Pusan National University, South Korea;

Korea Institute of Industrial Technology, South Korea

05:20 - 05:40pm: XXX Exergaming Simulator for Gym Training, Fitness Testing and

Rehabilitation

Veli-Matti Nurkkala, Jonna Kalermo

Kajaani University of Applied Sciences, Kajaani, Finland

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 11-CSC: COMPUTATIONAL SCIENCE, SYSTEMS, HPC & APPLICATIONS +

NOVEL SCIENTIFIC & ENGINEERING ALGORITHMS & APPLICATIONS

Chairs: TBA

July 24, 2014 (Thursday); 08:00am - 11:20am

(LOCATION: Silver Room)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Queuing Network Approximation Technique for Evaluating

Performance of Computer Systems with Memory Resource Used

by Multiple Job Types

Mizuki Takaya, Mie Ogiwara, Noorafiza Matrazali, Chiaki Itaba,

Itaru Koike, Toshiyuki Kinoshita Tokyo University of Technology, Japan

08:40 - 09:00am: Parallel Algorithm for Symmetric Positive Definite Banded

Linear Systems: A Didvide and Conquer Approach

S. Chandra Sekhara Rao, Sarita

Indian Institute of Technology Delhi, India

09:00 - 09:20am: Evolutionary Change in the Way of Information Access - Searching

versus Browsing Information in ECM Systems

Lukasz Osuszek, Stanislaw Stanek

IBM, Poland

09:20 - 09:40am: A New Algorithm for Multiple Key Linear Interpolation with

the Formal Foundation

Ahmed Tarek

Department of Science, Cecil College, University System of

Maryland (USM), Maryland, USA

09:40 - 10:00am: Application of Gain Scheduling Technique to a 6-Axis

Articulated Robot using LabVIEW

Mansu Kim, Wonjee Chung, Seongwon Jung

Changwon National University, Changwon, South Korea

10:00 - 10:20am: Fast and Slow MHD Waves in the Turbulent Plasma

George Jandieri

Georgian Technical University, Tbilisi, Georgia

10:20 - 10:40am: BREAK

10:40 - 11:00am: Building Fuzzy Inference System in The Political Domain

Sameera Alshayji, Nasser Al-Sabah, Abdulla Al-Sabah Department of Information Systems and Computing, Brunel

University, Uxbridge, Middlesex, UK; Diwan Amiri, Seef Palace, Kuwait

11:00 - 11:20am: Development of Fault Confirmation Module of Input Parameters

in RLW Process by Using BPNN

Kezia A. Kurniadi, Ryu Kwangyeol, Kim Duckyoung, Ryu Hoyeon Department of Industrial Engineering, Pusan National University, Busan; Department of Design and Human Engineering, Ulsan National Institute of Science and Technology, Ulsan; Korea Institute of

Industrial Technology, Jinju, South Korea

SESSION 12-CSC: LATE BREAKING PAPERS & SHORT RESEARCH PAPERS:

COMPUTATIONAL SCIENCE + HIGHER-ORDER METHODS + CELLULAR

AUTOMATA

XXX Chair: Prof. Ahmed Tarek; Cecil College, USM, Maryland, USA

July 24, 2014 (Thursday); 11:20am - 01:00pm

(LOCATION: Silver Room)

11:20 - 11:40am: Unsolved Problems In Computational Science: I

Shanzhen Gao

University of North Carolina at Charlotte, North Carolina, USA

11:40 - 12:00pm: Parallel Scaling Performance and Higher-Order Methods

Jared Buckley, Gaurav Khanna

Physics Department & Center for Scientific Computing and Visualization Research, University of Massachusetts Dartmouth,

North Dartmouth, Massachusetts, USA

12:00 - 12:20pm: Testing of Cellular Automata Clustering Algorithm for

Forward EM Calorimeter

Baba V.K.S. Potukuchi, Chaman Lal

Physics Department, University of Jammu, Jammu, India;

Physics Department, Government College for Women, Jammu, India

12:20 - 12:40pm: Automated Electoral System in a Developing Country Democracy

Okonigene Robert, Ojieabu Clement, Samuel John, Agbator Austin

Ambrose Alli University, Ekpoma, Edo State, Nigeria; Covenant University, Otta, Ogun State, Nigeria

12:40 - 01:00pm: Reversibility of a Nonlinear Hybrid Sensitive Model of

Cellular Automata

Leonardo Alt, Gina Oliveira

Universidade Federal de Uberlandia, Brazil

SESSION 13-ESA: NETWORK ON CHIP + EMBEDDED SYSTEMS AND APPLICATIONS

XXXX Chairs: David O. Jegede; University of Manitoba, Canada

July 24, 2014 (Thursday); 01:20pm - 02:00pm

(LOCATION: Silver Room)

01:20 - 01:40pm: A Primer for Mapping Techniques on NoC Systems

Maribell Sacanamboy, Freddy Bolanos

Computer Sciences and Electronics Department, Pontificia Universidad Javeriana - Cali, Colombia; Electrical Engineering

and Automatics Department, National University of Colombia,

Medelln, Colombia

01:40 - 02:00pm: Intelligent Assistive Device To Monitor The Ankle-Foot Orthosis

S. Vengateswaran, V. Ramani, M. Ramalatha

Department of Information Technology, Kumaraguru College of

Technology, Coimbatore, India

SESSION 14-MSV: MODELING AND APPLICATIONS

Chairs: TBA

July 24, 2014 (Thursday); 02:00pm - 03:20pm

(LOCATION: Silver Room)

02:00 - 02:20pm: A Non-linear Parametric Second-Degree Model for the Lifetime

of Ultraviolet Cu+ Ne-CuBr Laser

Iliycho P. Iliev, Snezhana G. Gocheva-Ilieva

Department of Physics, Technical University of Sofia,

branch Plovdiv, Bulgaria; Department of Applied Mathematics and Modeling, Plovdiv University "Paisii Hilendarski", Bulgaria

02:20 - 02:40pm: Fourth-Order Compact Formulation Applied to the Resolution of

Transmission Lines

Fatima Allali, Nour Eddine Alaa, Abdelilah Ghammaz, Hicham Rouijaa

University Cadi Ayyad, Laboratory LSET, Marrakech, Morocco

02:40 - 03:00pm: Using Video Modeling in Virtual Learning Environment to Develop

Some of Mathematical Skills Among Children with Down Syndrome

in the State of Kuwait

Muntaha S. ALHendal, Hamdy A. Abdulaziz, Ahmed M. Nouby, and

Elsayed S. Elkhamisi

Arabian Gulf University, Manama, Kingdom of Bahrain

Automatic Generation of Animatable 3D Personalized Model 03:00 - 03:20pm:

Based on Multi-view Images

Seong-Jae Lim, Ho-Won Kim, Jin Sung Choi, Bon-Ki Koo

Electronics and Telecommunications Research Institute (ETRI),

Daejeon, South Korea

XXX SESSION 15-MSV: LATE BREAKING PAPERS:

SIMULATION METHODS AND APPLICATIONS + VISUALIZATION +

COMPUTATIONAL MODELING

Chairs: TBA

July 24, 2014 (Thursday); 03:20pm - 05:40pm

(LOCATION: Silver Room)

NOTE: We anticipate a number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps

in the session.

03:20 - 03:40pm: Meaningful Touch and Gestural Interactions with Simulations

Interfacing via the Dart Programming Language

T. H. Mcmullen, K. A. Hawick

Department of Computer Science, University of Hull, Hull, UK

03:40 - 04:00pm: Procedural Generation of Landscapes for Interactive

Environments Using the Dart Programming Language

T. H. Mcmullen, K. A. Hawick

Department of Computer Science, University of Hull, Hull, UK

04:00 - 04:20pm: XXX FREE SLOT

04:20 - 04:40pm: A Generic Simulation Model For High Performance Computing

Systems

Taner Dursun, Hasan Dag TUBITAK BILGEM UEKAE, Turkey; Kadir Has University, Istanbul, Turkey

XXX FREE SLOT 04:40 - 05:00pm:

05:00 - 05:20pm: Semiotic Transposition Method for Biomimetic Computational

Modeling: an Overview

Carlos Eduardo Pires De Camargo, Italo Santiago Vega

Post-graduate Studies in Intelligence Technologies and Digital Design, Pontificia Universidade Catolica, Sao Paulo, Brazil

05:20 - 05:40pm: FREE SLOT

FECS'14 & SWWS'14 CONFERENCE SCHEDULES

The 2014 International Conference on Frontiers in Education: Computer Science and Computer Engineering (FECS'14)

+

The 2014 International Conference on Semantic Web and Web Services (SWWS'14)

Because of partial topical and technical overlap between FECS'14 and SWWS'14 tracks, the schedule of SWWS'14 is merged with the schedule of FECS'14, resulting a comprehensive schedule. It is hoped that this would encourage the participants of the two conferences to explore cross-fertilization of ideas. There are also a number of other sessions (not listed as part of these two conferences) that are of potential interest to FECS'14 and SWWS'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in EEE'14, SAM'14, MSV'14, SERP'14, ICOMP'14, ABDA'14, and FCS'14 conferences discuss topics that are within the scope of FECS'14 and SWWS'14; these have been scheduled so that selected FECS'14 and SWWS'14 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-FECS: ACCREDITATION & ACADEMIC REVIEWS + EVALUATION, ANALYSIS,

VERIFICATION METHODS & SYSTEMS + INTERDISCIPLINARY SUBJECTS

+ STUDENT SCHOLARSHIP AND OTHER INCENTIVES

XXX Co-Chairs: Dr. Nasser Tadayon; Southern Utah University, Utah, USA;

Dr. Thomas P. Way; Villanova University, PA, USA; Dr. Ghassan Azar; Lawrence Technological University,

Michigan, USA

July 21, 2014 (Monday); 01:00pm - 03:00pm

(LOCATION: Ballroom 3)

01:00 - 01:20pm: A Loosely-Coupled Approach to Interdisciplinary Computer

Science Education

Thomas Way, Seth Whidden Villanova University, PA, USA

01:20 - 01:40pm: A Graduate Merit Scholarship Program at Western Illinois University

John Drea, Martin Maskarinec

College of Business and Technology, Western Illinois University, Macomb, Illinois, USA; School of Computer Sciences, Western

Illinois University, Macomb, Illinois, USA

01:40 - 02:00pm: Assessing Teacher's Teaching Quality in Terms of Teaching

Capability and Maturity: a preliminary study

Chung-Yang Chen

National Central University, Taiwan, R.O.C.

02:00 - 02:20pm: Institutional Effectiveness Assessment Collaboration Study Based

Critical Thinking Approach

Ghassan Azar, Su Yu, Clay Gloster, Naser El-Bathy, Xincheng Xu Lawrence Technological University - Southfield, Michigan, USA; Shanghai University of Engineering and Science, P. R. China; North Carolina A&T State University - Greensboro, NC, USA

02:20 - 02:40pm: Verification and Validation of a Database Management Course

Nasser Tadayon, Connie Nyman

Southern Utah University, Cedar City, Utah, USA

02:40 - 03:00pm: Analysis of the Relationship Between Previous Ideas about the

Physics Concepts and a Poor Student's Performance in Classroom Guzman Rivera Miguel Angel, Rosete Fonseca Juan Carlos, and

Estrada Rojas Felipe

Technological Institute of Queretaro, Computing Engineering,

Mechanical Engineering Department, Mexico

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-FECS-SWWS

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 2-FECS: TEACHING PROGRAMMING + SOFTWARE ENGINEERING + PERFORMANCE

ENHANCEMENT METHODS + INTEGRATED LEARNING & RELATED ISSUES

XXX Co-Chairs: Dr. Dhiya Al-Jumeily; Liverpool John Moores University, UK; Grace Zhao; Graduate Center, City University of New York. USA

July 21, 2014 (Monday); 03:40pm - 06:00pm

(LOCATION: Ballroom 3)

03:40 - 04:00pm: Introducing Java's Enumerated Type

Jonathan Mohr

University of Alberta, Augustana Campus, Alberta, Canada

04:00 - 04:20pm: Helping Students Succeed by Improving CS1 - A Case Study

Robert Hatch

The University of Virginia's College at Wise, Virginia, USA

04:20 - 04:40pm: Lessons Learned from an Introductory Java Course for

Non-Technical Students

Martin Scaiano, Abbas Javadtalab, Liam Peyton University of Ottawa, Ottawa, Ontario, Canada

04:40 - 05:00pm: Embedded Programming for Computer Scientists

Peter M. Maurer

Baylor University, Waco, Texas, USA

05:00 - 05:20pm: Transforming Computing Education Through Integrated Learning: A

3D Programming Course For Undergraduate Students

Bowu Zhang, Mira Yun

Mercyhurst University, Erie, Pennsylvania, USA;

Wentworth Institute of Technology, Boston, Massachusetts, USA

05:20 - 05:40pm: Using a Web-Based Testing Tool Repository in Programming

Course: An Empirical Study

Anurag Goswami, Gursimran S. Walia, Sameer Abufardeh North Dakota State University, Fargo, North Dakota, USA 05:40 - 06:00pm: Using Visual Logic with Pseudocode to Teach an Introductory

Programming Course

Gina Cooper

Devry University, Downers Grove, Illinois, USA

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 3-FECS: TOOLS AND SYSTEMS, CLASS MANAGEMENT SYSTEMS, INSTRUCTIONAL

DESIGN + LEARNING MODELS + WEB BASED INSTRUCTION, ONLINE SYSTEMS,

DISTANCE LEARNING, MOBILE SYSTEMS + SOCIAL NETWORKS

XXX Co-Chairs: Dr. Alistair McEwan; University of Leicester, UK; Dr. Don Schwartz; Marist College, Poughkeepsie,

New York, USA

XXX July 22, 2014 (Tuesday); 08:00am - 12:20pm

(LOCATION: Ballroom 3)

08:00 - 08:20am: An Interactive Multimedia Website for Teaching and Learning

Engineering Design and Manufacturing

Longhan Xie, Ruxu Du

Chinese University of Hong Kong, P. R. China; South China University of Technology, P. R. China

08:20 - 08:40am: Computational Quiz Generation

Daniel Hoffman, Felix Gianelia, Ming Lu

Department of Computer Science, University of Victoria,

Victoria, BC, Canada

08:40 - 09:00am: WUTexter: A Classroom Interaction Tool for Anybody Who Can Text

Benjamin Murray, Hunter Latourette, Ron K. Cytron Department of Computer Science and Engineering, Washington University, St Louis, Missouri, USA

09:00 - 09:20am: Prototype Development of Integrated Class Assistance Application

Using Smart Phone

Kazuya Murata, Takayuki Fujimoto

Graduate School of Engineering, Toyo University, Saitama, Japan

09:20 - 09:40am: Technology Enhanced Learning for Computer Science Education: A

Regional STEM Widening Access Case Study

Roy Sterritt, Julie Campbell, Raymond Bond, George Moore, Giuseppe Trombino, Simon Fraser, Brian Cleland, Paul Hanna Faculty of Computing and Engineering, University of Ulster,

Northern Ireland, UK

09:40 - 10:00am: Adequacy Of an Immersive Environment as a Teaching-Learning Tool

Applying Experimental 3D Limen Method

Diego-Mauricio Torres-Arias, Trefftz Helmuth

Instituto Netsys, Colombia; Universidad EAFIT, Colombia

10:00 - 10:20am: Offering Service Learning Projects in a New Environment

Donald R. Schwartz

School of Computer Science and Mathematics, Marist College,

Poughkeepsie, New York, USA

10:20 - 10:40am: BREAK

10:40 - 11:00am: Flipping the Classroom by Using Cloud Services and Third Party

Online Courses in Traditional Class Settings Enables All Computer

Science Students an Equal Education David J. Powell, Joel Hollingsworth

Elon University, Elon, North Carolina, USA

11:00 - 11:20am: Health Journal Web Service Using Cloud Computing

Ryan Hausen, Samuel Sambasivam, Simon H. Lin

Department of Computer Science, College of Liberal Arts and Sciences, Azusa Pacific University, Azusa, California, USA

11:20 - 11:40am: Development of Prototype System for the Art Appreciation Support

System to Integrate Visitors into Art Objects in Real Time

Koji Fujita, Takayuki Fujimoto

Graduate School of Engineering, Toyo University, Japan

11:40 - 12:00pm: A 31-Year Record of CS Enrollment At a Single Urban Public

Institution

Aaron Tenenbaum, Yedidyah Langsam

Brooklyn College, Brooklyn, New York, USA

12:00 - 12:20pm: Collaborative Software Development: The Thomas Paine Encyclopedia

Lubomir Ivanov

Iona College, New Rochelle, New York, USA

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 4-FECS: PROGRAMMING LANGUAGES, STUDIES AND RELATED ISSUES + TUTORIAL

XXX Chair: Dr. Irene Polycarpou; UCLan Cyprus (University of Central

Lancashire), Cyprus

July 22, 2014 (Tuesday); 01:20pm - 03:00pm

(LOCATION: Ballroom 3)

01:20 - 01:40pm: The Effect Of Changing Programming Language to Student Success

in Undergraduate Computer Science Curriculum

Ebru Celikel Cankaya

University of Texas at Dallas, Richardson, Texas, USA

01:40 - 02:00pm: Mining Student Time Management Patterns in Programming Projects

Dale E. Parson And Allison Seidel

Kutztown University of Pennsylvania, Kutztown, Pennsylvania, USA

02:00 - 03:00pm: TUTORIAL:

USING WEKA TO MINE TEMPORAL WORK PATTERNS OF PROGRAMMING STUDENTS

Dr. Dale E. Parson

Kutztown University of Pennsylvania, Kutztown, Pennsylvania, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-FECS-SWWS

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 04:20pm: INVITED LECTURE:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-

REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria

School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY

INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter

Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 5-FECS: LEARNING MODELS, METHODOLOGIES, TOOLS AND CASE STUDIES +
AGILE METHODOLOGIES + PAIR PROGRAMMING AND TEAM TEACHING

METHODS

XXX Chair: Eshwar Bachu; University of the West Indies,

Trinidad and Tobago

July 23, 2014 (Wednesday); 08:00am - 10:20am

(LOCATION: Ballroom 3)

08:00 - 08:20am: How Can Augmented Reality Favor the Learning of Calculus?

Patricia Salinas, Eliud Quintero, Eduardo Gonzalez-Mendivil

Tecnologico de Monterrey, Mexico

08:20 - 08:40am: Interdisciplinary Team-Teaching Experiences of a Computer and Nuclear

Energy Course Designed for Non-Nuclear Engineering Students

Peter Keiller, Charles Kim, Robert Rwebangira

Howard University, Washington, DC, USA

08:40 - 09:00am: Automated Feedback for Personalized Learning

David J. Coe, Ronald Bowman, Jason Winningham

University of Alabama in Huntsville, Huntsville, Alabama, USA

09:00 - 09:20am: Running an Agile Class

Kevin A. Gary

Arizona State University, Arizona, USA

09:20 - 09:40am: A Case Study on Introducing the Design Thinking into PBL

Shuhei Ohsako, Yasutaka Kamei, Shintaro Hosoai, Weiqiang Kong, Kimitaka Kato, Akihiko Ishizuka, Kazutoshi Sakaguchi, Miyuki Kawataka, Yoshitsugu Morita, Naoyasu Ubayashi, Akira Fukuda OUTF: Kyushu University Research Center for Advanced Informatic

QUTE: Kyushu University Research Center for Advanced Information & Communication Tech. Education, Kyusyu University, Fukuoka, Japan; Fujitsu, Ltd., Kanagawa, Japan; Fujitsu Design, Ltd., Kanagawa, Japan; Fujitsu University, Ltd., Kanagawa, Japan; Graduate School and Faculty of Design, Kyushu University, Fukuoka, Japan

09:40 - 10:00am: The Impact of Cultural Factors on Technology Acceptance,

Students Point of View

Dhiya Al-Jumeily, Abir Hussain, Sam Crate

Applied Computing Research, Liverpool John Moores University, UK

10:00 - 10:20am: Guidelines for Implementing Pair Programming in Introductory

CS Courses: Experience Report

Alex Radermacher, Gursimran S. Walia, Sameer Abufardeh, and

Oksana Myronovych

North Dakota State University, Fargo, North Dakota, USA

10:20 - 10:40am: BREAK

SESSION 6-SWWS: SEMANTIC WEB AND RELATED ISSUES

XXX Chair: Dr. En Cheng; The University of Akron, Ohio, USA

July 23, 2014 (Wednesday); 10:40am - 12:20pm

(LOCATION: Ballroom 3)

10:40 - 11:00am: Open km-Learning: Using Semantic Web Technologies to Facilitate

E-Learning Grace Zhao

Graduate Center, City University of New York, New York, USA

11:00 - 11:20am: The Use of Semantic-based Suggestions in the Service Composition

Process

Diogo Phelipe Busanello Da Silva, Frank Siqueira Federal University of Santa Catarina, Brazil 11:20 - 11:40am: Concept Map Based Semantic Representation and Knowledge

Visualization Junfang Zeng

Inst. of Automation, Chinese Academy of Sciences, Beijing, China

11:40 - 12:00pm: Semantic Hub Agent for Data Commercialization

Dongsheng Wang

Inst. of Automation, Chinese Academy of Sciences, Beijing, China

12:00 - 12:20pm: Introduction to Ubit Semantic Computing

Shengyuan Wu

Shandong University, Jinan, P. R. China

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 7-FECS: WEB BASED INSTRUCTION, ONLINE SYSTEMS & METHODS, DISTANCE

LEARNING, MOBILE SYSTEMS + SOCIAL NETWORKS

XXX Co-Chairs: Dr. Dale E. Parson; Kutztown University of Pennsylvania,

USA;

Dr. Robert Hatch; The University of Virginia's College

at Wise, USA;

Dr. Kanwalinder Gagneja; Southern Oregon University,

Oregon, USA

July 23, 2014 (Wednesday); 01:20pm - 04:20pm

(LOCATION: Ballroom 3)

01:20 - 01:40pm: Global Perspective of Security Breaches in Facebook

Kanwalinderjit Kaur Gagneja

Southern Oregon University, Ashland, Oregon, USA

01:40 - 02:00pm: Research Directions for Teaching Programming Online

Amber Settle, Arto Vihavainen, Craig Miller DePaul University, Chicago, Illinois, USA;

University of Helsinki, Finland

02:00 - 02:20pm: Creating an Automated Learning Management Tool in an Engineering

Course Based on Interdisciplinary Metrics

Quoc-Viet Dang, Daniel D. Gajski

Henry Samueli School of Engineering, University of California,

Irvine, California, USA;

Center for Embedded Computer Systems, University of California,

Irvine, California, USA

02:20 - 02:40pm: Feeling Glassy: An Analysis of Developing for Google Glass

Abrar Qureshi, Dakota Gallimore, Joseph Lacava Department of Mathematics and Computer Science,

University of Virginia, College at Wise, Virginia, USA

02:40 - 03:00pm: Learner Centered Schemes in the Digital Age

Manny Estabrooks

Red Deer College, Red Deer, Canada

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-FECS-SWWS

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Collaborative Research Project for CS and Engineering Students

Subodh Bhandari, Fang Tang, Zekeriya Aliyazicioglu,

Scott Boskovich, Kevin La

California State Polytechnic University, Pomona, CA, USA

O. XXX The Development of Interactive Distance-Learning Laboratory for Teaching Digital Design in Electrical and Computer Engineering Bassam Shaer, Mohamed Khabou

University of West Florida, Florida, USA

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SESSION 7-FECS: Continued ... WEB BASED INSTRUCTION, ONLINE SYSTEMS & METHODS,

DISTANCE LEARNING, MOBILE SYSTEMS + SOCIAL NETWORKS

(LOCATION: Ballroom 3)

03:40 - 04:00pm: Preparing Digital Natives for Industry

Neelu Sinha, Mary Rauscher

Fairleigh Dickinson University, Madison, New Jersey, USA

04:00 - 04:20pm: Computer Hardware Experimental Teaching Based on MOOC

Quan Cheng-Bin, Chan Yong-Qiang

Department of Computer Science and Technology, Tsinghua University, Beijing, P. R. China

SESSION 8-FECS: CURRICULUM AND COURSE DEVELOPMENT + RELATED ISSUES

AND STUDENT FUNDING STRATEGIES

XXX Chair: Dr. Bassam R. Shaer; University of West Florida, USA

July 23, 2014 (Wednesday); 04:20pm - 06:00pm

(LOCATION: Ballroom 3)

04:20 - 04:40pm: Web Programming Curriculum: What Changes, What Remains the

Same Over Time

Rob Byrd, Meredith Beier

Abilene Christian University, School of Information Technology

and Computing, Texas, USA

04:40 - 05:00pm: Blending Art and Technology: Two Courses and Some MAGIC

Ronald P. Vullo, Andrew Phelps, Christopher Egert, Heather Rowles Golisano College of Computing and Information Sciences, USA; Rochester Institute of Technology, Rochester, New York, USA; Northern Virginia Family Service, Oakton, Virginia, USA

05:00 - 05:20pm: Incorporating Entrepreneurship Topic into an Introductory

Computer Science Course

Xiaovuan Suo

Department of Math and Computer Science, Webster University,

Saint Louis, MO, USA

05:20 - 05:40pm: XXX Does Badge-Based Learning Buck the Grading Curve? An Educational

Experiment in Computer Architecture

Peter Jamieson

Miami University, Oxford, Ohio, USA

05:40 - 06:00pm: Using Undergraduates as Teaching Assistants at Harbin

Institute of Technology

Dalie Sun, Hongli Zhang, Kuanquan Wang

Harbin Institute of Technology, Harbin, P. R. China

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 9-FECS: TEACHING PROGRAMMING + SOFTWARE ENGINEERING + PERFORMANCE

ENHANCEMENT METHODS + INTEGRATED LEARNING AND RELATED ISSUES + FLIPPED CLASSROOMS + ATTENDANCE TRACKING SYSTEMS + TEACHING METHODS + TEACHING SUPPORT SYSTEMS AND TOOLS + CASE STUDIES

XXX Co-Chairs: Dr. Jing Pang; California State University, Sacramento,

California, USA;

Eshwar Bachu; University of the West Indies,

Trinidad and Tobago

July 24, 2014 (Thursday); 08:00am - 11:20am

(LOCATION: Ballroom 3)

08:00 - 08:20am: Programming at Different Levels: A Teaching Module for

Undergraduate Computer Architecture Course

Xuejun Liang, Loretta A. Moore, Jacqueline Jackson Department of Computer Science, Jackson State University,

Mississippi, USA

08:20 - 08:40am: Visualizing Problem Solving in a Strategy Game for Teaching

Programming

Eshwar Bachu, Margaret Bernard

Department of Computing and Information Technology, University

of the West Indies, St Augustine, Trinidad and Tobago

08:40 - 09:00am: A Study of Kinesthetic Learning Activities Effectiveness in

Teaching Computer Algorithms

Sara Alraddady, Danny Luong, G. Young

California State Polytechnic University, Pomona, CA, USA

09:00 - 09:20am: The Value of Video Quizzes in a Computer Science Flipped

Classroom: An Empirical Study Mark C. Lewis, Lisa L. Bender

Trinity University, San Antonio, Texas, USA;

University of Houston - Clear Lake, Houston, Texas, USA

09:20 - 09:40am: Tracking Attendance Pilot

Dwight Deugo

The School of Computer Science, Carleton University, Ottawa,

Ontario, Canada

09:40 - 10:00am: XXX FREE SLOT

10:00 - 10:20am: Visualization and Computer Aided Design Techniques for Teaching

Computer Hardware Design Course

Jing Pang

Department of Electrical and Electronic Engineering and Program of Computer Engineering, California State University, Sacramento,

California, USA

10:20 - 10:40am: XXX Methods for Teaching a First Parallel Computing Course to

Undergraduate Computer Science Students

Mike Estep, Feridoon Moinian, Johnny Carroll, Chao Zhao

Cameron University, Lawton, Oklahoma, USA

10:40 - 11:00am: It's a NUI World: Incorporating Natural User Interfaces in

an HCI course

Dheivya Thiagarajan, Caitlin Hurley, Amanreet Bajwa, Cyndi Rader

Colorado School of Mines, Golden, Colorado, USA

11:00 - 11:20am: Behavior Mining For Big Data: Promoting Critical Thinking in

Data Science Education

Zhengxin Chen

Department of Computer Science, University of Nebraska at Omaha,

Nebraska, USA

SESSION 10-SWWS: WEB SERVICES AND APPLICATIONS

XXX Co-Chairs: Prof. Toshiyuki Maeda; Hannan University, Japan;

Dr. Dhiya Al-Jumeily; Liverpool John Moores University, UK

July 24, 2014 (Thursday); 11:20am - 12:40pm

(LOCATION: Ballroom 3)

11:20 - 11:40am: Extending iTV Applications Through Web Services

Rodrigo C. M. Santos, Marcio F. Moreno, Felippe Nagato,

Luiz Fernando G. Soares

Pontifical Catholic University of Rio de Janeiro, Brazil

11:40 - 12:00pm: TrackShip - A Unified Shipment Tracking Application

Harikrishna Bodicharla, En Cheng

Computer Science Department, University of Akron, Ohio, USA

12:00 - 12:20pm: Hybrid Software Framework for Web/Mail Interface

Toshiyuki Maeda, Yae Fukushige, Masumi Yajima

Faculty of Management Information, Hannan University, Japan;

Faculty of Economics, Meikai University, Japan

12:20 - 12:40pm: Improve XML Web Services' Performance Using SOAP Compression

Iehab Al Rassan, Haifa Alyahya King Saud University, Saudi Arabia; University of Hail, Saudi Arabia

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 11-FECS: RECRUITMENT, RETENTION & MENTORING + ENROLLMENT STUDIES &

MANAGEMENT + TEACHING METHODS + TEAM TEACHING + TEACHING

SUPPORT SYSTEMS AND TOOLS + CASE STUDIES

XXX Chairs: Dr. Jing Pang; California State University, Sacramento,

California, USA

July 24, 2014 (Thursday); 01:20pm - 05:40pm

(LOCATION: Ballroom 3)

01:20 - 01:40pm: XXX FREE SLOT

01:40 - 02:00pm: Increasing Diversity in Engineering, IT, and Computer Science

Milica Barjaktarovic

Hawaii Pacific University, Honolulu, Hawaii

02:00 - 02:20pm: An Evolving Educational Advisory Role for Computer Science

Andrew J. Mcallister, Genevieve Audet-Perron, Amanda Gilks,

Debbie Mcanany, Rick Wightman

University of New Brunswick, Fredericton, New Brunswick, Canada

02:20 - 02:40pm: Agile - Higher Educating STEM College Students

Stacey Franklin Jones

Executive Management and Technology Partnerships, USA

02:40 - 03:00pm: Critical Thinking Strategies in Teaching Advanced Timing

Analysis Course

Jing Pang, Amy Qiaoming Liu

California State University, Sacramento, California, USA

03:00 - 03:20pm: Capstone Experience with Watermarking

Suhair Amer

Southeast Missouri State University, Missouri, USA

03:20 - 03:40pm: Attachment-Theory based Pedagogy
Karina Assiter
Wentworth Institute of Technology

Wentworth Institute of Technology, Boston, MA, USA

03:40 - 04:00pm: Web-Based Database Project for the Lawton, OK Police Department:
Interdisciplinary Systems Software Development at Cameron University
Chao Zhao, K. David Smith, Mike Estep, Abbas Johari, William Carney

Cameron University, Lawton, Oklahoma, USA

04:00 - 04:20pm: Decimal to Binary Number Conversion Can Be Fun

Irene Polycarpou

University of Central Lancashire, Cyprus

04:20 - 04:40pm: The Changing Nature of Teaching and Learning Shaped by

Information and Communications Technology (ICT) Dzao Gilbert, Mbodila Munienge, Kikunga Muhandji

University of Venda, South Africa

04:40 - 05:00pm: An Environment to Promote a Visual Learning of Calculus

Patricia Salinas, Eliud Quintero, Eduardo Gonzalez-Mendivil

Instituto Tecnologico y de Estudios Superiores de

Monterrey (ITESM), Mexico

05:00 - 05:20pm: Session Keys for Encryption/Decryption in Elliptic Curve

Cryptosystems

Tai-Chi Lee, Donovan Moore

Department of Computer Science and Information Systems,

Saginaw Valley State University, Michigan, USA

05:20 - 05:40pm: An Auto-Generation Approach to Create Visualization Teaching

Materials for Data Structures and Algorithms in MS-PPT Format

Sen Zhang

State University of New York, College at Oneonta, Oneonta,

New York, USA

ICAI'14 CONFERENCE SCHEDULE

The 2014 International Conference on Artificial Intelligence

There are a number of other sessions (not listed as part of ICAI'14 in this schedule) that are of potential interest to ICAI'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in GEM'14, DMIN'14, EEE'14, ABDA'14, ICOMP'14, IKE'14, and SAM'14 conferences discuss topics that are within the scope of ICAI'14; these have been scheduled so that selected ICAI'14 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

CONGRESS OPENING REMARKS - July 21, Monday: 08:30 - 08:45am:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: **KEYNOTE LECTURE 1 - July 21, Monday:**

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

KEYNOTE LECTURE 3 - July 21, Monday: 10:45 - 11:45am:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-ICAI: ARTIFICIAL INTELLIGENCE, ALGORITHMS & APPLICATIONS + COMPUTATIONAL

SCIENCE AND INTELLIGENCE

Chairs: TBA

July 21, 2014 (Monday); 01:00pm - 05:40pm

(LOCATION: Ballroom 4)

01:00 - 01:20pm: A Framework for Trust Based Shared Economy

> Henry Hexmoor, Markum Reed, Purvag Patel, Guy Fraker Southern Illinois University, Carbondale, Illinois, USA;

AutonomouStuff, LLC, Morton, Illinois, USA

01:20 - 01:40pm: Artificial Intelligence in Clothing Fashion

Haosha Wang, Khaled Rasheed

Institute for Artificial Intelligence, University of Georgia, USA

Implementation to Provide Individual Illuminance and Color Temperature 01:40 - 02:00pm:

in an Intelligent Lighting System without Chroma Meter Miki Mitsunori, Risa Kawashima, Hisanori Ikegami,

Hiromitsu Nakabayashi, Yohei Azuma, Aida Hiroto

Doshisha University, Kyoto, Japan

02:00 - 02:20pm: NeuroSNP: Tool to Filter SNPs in Whole Genomic DNA

Bruno Zonovelli, Carlos Cristiano Hasenclever Borges, and

Wagner Antonio Arbex

Federal University of Juiz de Fora Juiz de Fora, Brazil;

Brazilian Agricultural Research Corporation, Juiz de Fora, Brazil

02:20 - 02:40pm: Representation and Efficient Algorithms for the Study of Cell

Signaling Pathways

Andrei Doncescu, Pierre Siegel, Tan Le

CNRS, LAAS, Toulouse, France;

Aix Marseille Universite, CNRS, Marseille, France

02:40 - 03:00pm: Methods of Arabic Manuscripts Digitization

Oleg Redkin, Olga Bernikova

St. Petersburg State University, Department of Asian and

African Studies, Russia

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-ICAI

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Computational Evaluation of Planarian Regeneration Models Marianna Budnikova, Jeff Habig, Tim Andersen

Boise State University, Boise, ID, USA

O. Current Events Information Providing System Based on Personal

Information and General Importance

Hirokazu Watabe, Misako Imono, Eriko Yoshimura, Seiji Tsuchiya Department of Intelligent Information Engineering and Science,

Doshisha University, Kyoto, Japan

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SESSION 1-ICAI: Continued ... ARTIFICIAL INTELLIGENCE, ALGORITHMS & APPLICATIONS +

COMPUTATIONAL SCIENCE AND INTELLIGENCE

(LOCATION: Ballroom 4)

03:40 - 04:00pm: A Top-Down Perception Approach for Object Recognition

Bernay-Angeletti Coralie, Aynaud Claude, Chapuis Roland, and

Aufrere Romuald

Institut Pascal UMR 6602 UBP / CNRS Campus des Cezeaux, France;

LIMOS UMR, France

04:00 - 04:20pm: Estimation of Illuminance/Luminance Influence Factor in Intelligent

Lighting System Using Operation Log Data

Mitsunori Miki, Yuki Sakakibara, Hisanori Ikegami, Hiroto Aida

Graduate School of Science & Eng., Doshisha University, Kyoto, Japan;

Department of Science & Eng., Doshisha University, Kyoto, Japan

04:20 - 04:40pm: Heuristic Applied to the Euclidean Steiner Tree Problem with

Node-depth-degree Encoding

Marcos Antonio Almeida De Oliveira, Telma Woerle De Lima,

Les R. Foulds, Anderson Da Silva Soares, Alexandre Claudio Botazzo

Delbem, Clarimar Jose Coelho

Federal University of Goias; ICMC, University of Sao Paulo, Brazil;

Pontifical University Catholic of Goias, Brazil

04:40 - 05:00pm: Reducing the Number of Times Lighting Control is Required to Reach

Illuminance Convergence in the Intelligent Lighting System

Mitsunori Miki, Shohei Matsushita, Sho Kuwajima, Hisanori Ikegami,

and Hiroto Aida

Doshisha University, Kyoto, Japan

05:00 - 05:20pm: An Intelligent Lighting System Using a Smartphone as an

Illuminance Sensor

Mitsunori Miki, Sho Kuwajima, Shohei Matsushita, Hisanori Ikegami,

Yohei Azuma, Hiroto Aida

Doshisha University, Kyoto, Japan

05:20 - 05:40pm: The Prediction and Classification of Family Type by Using Power

Consumption Model over Smart Grid

Jihyun Kim, Howon Kim

Department of Computer Engineering, Pusan National University,

Republic of Korea, South Korea

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 2-ICAI: THE INTERNATIONAL WORKSHOP ON INTELLIGENT LINGUISTIC

TECHNOLOGIES 2014, ILINTEC'14

Chair: Dr. Elena Kozerenko, Russian Academy of Sciences, Russia

July 22, 2014 (Tuesday); 08:00am - 11:40am

(LOCATION: Ballroom 4)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Building Unified Knowledge Resources for Multiple Applications

Gavin Matthews, Max Petrenko, Erin MacMurray van Liemt

Vertical Search Works, USA

08:40 - 09:00am: A Rule-Based Approach to Free Word Order Languages

Anton V. Zimmerling

SMSUH Moscow, Institute of Linguistics, Russian Academy of

Sciences, Moscow, Russia

09:00 - 09:20am: On The Method for Automatic Determination of Semantic

Similarity of the Document Texts

Victor N. Zakharov, Alexander A. Khoroshilov, and

Alexei A. Khoroshilov

Institute for Informatics Problems of the Russian Academy of

Sciences, Moscow, Russia

09:20 - 09:40am: Cognitive Machine Translation Model: Musketeer Classes of

Shared Reality Boris Gorbis

Law Offices of Boris Gorbis, Los Angeles, California, USA

09:40 - 10:00am: Conceptual Text Generation Based on Key Phrases

Mikhael M. Charnine, Nikolai V. Somin, Vladimir G. Nikolaev Institute for Informatics Problems of the Russian Academy of

Sciences, Moscow, Russia

10:00 - 10:20am: Linguistic Processor Design Employing the Cognitive

Transition Method Elena B. Kozerenko

Institute for Informatics Problems of the Russian Academy of

Sciences, Moscow, Russia

10:20 - 10:40am: BREAK

10:40 - 11:00am: The Crowdsourcing Linguistic Technology for Experts Assessment

Mikhael M. Charnine, V. I. Protasov

Institute for Informatics Problems of the Russian Academy of

Sciences, Moscow, Russia

11:00 - 11:20am: Conceptual Business Process Structuring by Extracting Knowledge

from Natural Language Texts

Oleg V. Zolotarev, Mikhael M. Charnine, Andrey G. Matskevich Institute for Informatics Problems of the Russian Academy of

Sciences, Moscow, Russia

11:20 - 11:40am: Patchwork and Plagiaristic Texts Typology and Identification

Techniques

Mikhael Yu Mikheev, Elena B. Kozerenko, Nikolai V. Somin,

Yulia I. Morozova, İrina V. Galina

Institute of Informatics Problems of the Russian Academy of

Sciences, Moscow, Russia

SESSION 3-ICAI: MACHINE LEARNING, AGENT TECHNOLOGIES, SWARM OPTIMIZATION, HMM

AND APPLICATIONS

XXX Chair (probably from 11:40am - 12:20pm): Prof. Eman El-Sheikh;

Associate Dean, University of West Florida, Pensacola,

Florida, USA

July 22, 2014 (Tuesday); 11:40am - 03:00pm

(LOCATION: Ballroom 4)

11:40 - 12:00pm: A Comparison of Machine Learning Techniques for the Generation

of River and Stream Water Quality Estimates

Alexander Maestre, Eman El-Sheikh

The University of Alabama, Tuscaloosa, Alabama, USA; University of West Florida, Pensacola, Florida, USA

12:00 - 12:20pm: Manipulation of Nodes in a Connected Car Network

Henry Hexmoor, Guy Fraker

Southern Illinois University, Carbondale, Illinois, USA;

AutonomousStuff.com, Morton, Illinois, USA

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: Teeth Selection Using Particle Swarm Optimization

E. B. Barboza, A. Z. Peixinho, A. N. Marana, D. T. Oliveira Faculty of Sciences, UNESP - Univ. Estadual Paulista, Brazil; Bauru School of Dentistry, USP - Univ. of Sao Paulo, Bauru,

Sao Paulo, Brazil

01:40 - 02:00pm: An Automatic Speech Recognition for the Filipino Language

Using the HTK System

John Lorenzo Bautista, Yoon-Joong Kim Hanbat National University, South Korea

02:00 - 02:20pm: SPSO-TVAC Congestion Management in an Practical Electricity

Market Based Generator Sensitivity

H. A. Shayanfar, H. Shayeghi, A. Ghasemi

Faculty of Engineering, South Tehran Branch, Tehran, Iran; Department of EE, University of Mohaghegh Ardabili Ardabil, Iran

02:20 - 02:40pm: Optimal Allocation and Sizing of Capacitors by BPSO Algorithm

with Consideration of Annual Load Profile: A Real Case Study

H. Shayeghi, H. A. Shayanfar, A. Ghasemi

University of Mohaghegh Ardabili, Ardabil, Iran;

Iran University of Science and Technology, Tehran, Iran

02:40 - 03:00pm: A Pong Game Agent Using the Neuronal Network Model

Robert Hercus, Hong-Shim Kong Neuramatix Sdn. Bhd., Malaysia

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-ICAI

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. On Improving Failure Mode and Effects Analysis (Fmea) from

Different Artificial Intelligence Approaches

J. Puente, P. Priore, I. Fernandez, N. Garcia, R. Pino, and

D. De La Fuente

Escuela Politecnica de Ingenieria de Gijon, Campus de

Viesques s/n, Gijon (Asturias), Spain

O. Ils With Multiple Variable Neighbourhood Descendent For The Vehicle Routing Problem With Multiple Trips A. Gomez, D. Arguelles, I. Gallego, J. Lopez, J. Parreno, and D. De La Fuente Escuela Politecnica de Ingenieria de Gijon, Campus de Viesques s/n, Gijon (Asturias), Spain 0.

03:40 - 04:20pm:**INVITED LECTURE:**

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY **INTELLIGENT ENTITIES**

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES 06:00 - 09:00pm: (Please see the lists at the begining of this book for details)

SESSION 4-ICAI: KNOWLEDGE DISCOVERY AND LEARNING

Co-Chairs: Dr. Raymond A. Liuzzi; Raymond Technologies,

New York, USA;

Dr. Peter M. LaMonica, US Air Force Research Lab, AFRL,

RIED, USA;

Dr. Todd Waskiewicz, US Air Force Research Lab, AFRL,

RIED, USA)

July 23, 2014 (Wednesday); 08:00am - 11:20am

(LOCATION: Ballroom 4)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: Collaborative Information Analysis and Visualization for

Knowledge Discovery

Perakath Benjamin, Karthic Madanagopal, Belita Gopal, and

John Hamilton

Knowledge Based Systems, Inc., Austin, Texas

08:40 - 09:00am: Artificial Intelligence and Radar Target Tracking

Gerard T. Capraro

Capraro Technologies, Inc., Utica, New York, USA

09:00 - 09:20am: Deep Collaborative Data Fusion in a Cloud Framework

Aaron Wheeler

3-Sigma Research, Inc., Indialantic, Florida, USA

09:20 - 09:40am: Functions as Conditionally Discoverable Relational Database Tables

Attila Ondi, Tod Hagan

Securboration Inc., NASA Blvd., Melbourne, Florida, USA

09:40 - 10:00am: Temporal Modeling of Twitter Posting Behavior: An Empirical Study

Matthew Michelson, John Bumgarner

InferLink Corporation, El Segundo, California, USA;

U.S. Cyber Consequences Unit, Charlotte, North Carolina, USA

10:00 - 10:20am: Case Studies: Big Data Analytics for System Health Monitoring

Dinkar Mylaraswamy, Brian Xu, Paul Dietrich, Anandavel Murugan

Honeywell Aerospace, Golden Valley, Minnesota, USA; Honeywell Technology Solutions Limited, Madurai, India

10:20 - 10:40am: BREAK

10:40 - 11:00am: Extraction of Entities and Relationships from Text for Social

Network Analysis Todd Waskiewicz

US Air Force Research Lab, AFRL/RIED, Rome, New York, USA

11:00 - 11:20am: Identifying and Resolving Conflicts in Multi Source Data

J. M. Brown, C. G. Fournelle, John Spina

Boston Fusion, Corp., Burlington, Massachusetts, USA; US Air Force Research Lab, AFRL/RIED, Rome, New York, USA

SESSION 5-ICAI: NATURAL LANGUAGE PROCESSING, TOPIC DETECTION, LINGUISTIC BASED METHODS, HUMAN-MACHINE INTERACTION + ROBOTICS AND APPLICATIONS, BCI, PATTERN RECOGNITION AND DIMENSIONALITY REDUCTION METHODS XXX Co-Chairs: Dr. Harris Wang; Athabasca University, Canada; Marvin Andujar; University of Florida, Florida, USA July 23, 2014 (Wednesday); 11:20am - 03:00pm (LOCATION: Ballroom 4) Performance of a Natural Language Framework 11:20 - 11:40am: Waleed Faris, Kam-Hoi Cheng Computer Science Department, University of Houston, Texas, USA 11:40 - 12:00pm: Assigning Stress to Out-of-vocabulary Words: Three Approaches Manex Agirrezabal, Jeffrey Heinz, Mans Hulden, Bertol Arrieta University of the Basque Country (UPV/EHU), Spain; University of Delaware, Newark, Delaware, USA; University of Helsinki, Finland A System for Answering Scheduling Questions Based on Cocept 12:00 - 12:20pm: Association Eriko Yoshimura, Misako Imono, Seiji Tsuchiya, Hirokazu Watabe Doshisha University, Kyoto, Japan 12:20 - 12:40pm: XXX Deep Neural Network Based Feature Representation for Weather Forecasting James N.K. Liu, Yanxing Hu, Jane Jia You, Pak Wai Chan The Hong Kong Polytechnic University, Hong Kong 12:40 - 01:20pm: LUNCH (On Your Own) 01:20 - 01:40pm: The SWAM Arabic Morphological Tagger: Multilevel Tagging and Diacritization Using Lexicon Driven Morphotactics and Viterbi Mohammed A. El-Affendi, Majdy Al-Tayeb Prince Sultan University, Saudi Arabia; Faculty of Mathematical Sciences, University of Khartoum, Sudan 01:40 - 02:00pm: An Over the Cloud Infrastructure Mind-Machine Interface Chris S. Crawford, Marvin Andujar, Sekou Remy, Juan E. Gilbert Clemson University, Clemson, South Carolina, USA 02:00 - 02:20pm: Bipedal Robot Walking and Balancing using a Neuronal Network Model Robert Hercus, Litt-Pang Hiew, Nurain Saaidon, Kit-Yee Wong, and Kim-Fong Ho Neuramatix Sdn. Bhd., Malaysia 02:20 - 02:40pm: Fault Detection in Industrial Plant Using k-Nearest Neighbors with Random Subspace Method Fellipe Do Prado Arruda, Valniria Da Silva Bandeira, Kleiton Vinicius Braga, Clarimar Jose Coelho, Anderson Da Silva Soares, Gustavo Teodoro Laureano, Telma Woerle De Lima

02:40 - 03:00pm: Neural Networks Applied to Recognition of Late Blight in Brazilian Tomato Crops
Gizelle Kupac Vianna, Sergio Manuel Serra Da Cruz

Federal University of Goias, Goiania, GO, Brazil

Instituto de Ciencias Exatas Departamento de Matematica, Universidade Federal Rural do Rio de Janeiro (UFRRJ), Brazil

Pontifical University Catholic of Goias, Goiania, GO, Brazil;

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-ICAI

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Judging Emotion from EEGs Using a Clustered EEG Feature
Knowledge Base

Seiji Tsuchiya, Misako Imono, Eriko Yoshimura, Hirokazu Watabe Doshisha University, Kyoto, Japan

O. Human-Robot Teaming with Sliding Autonomy Jacob Longazo, Michael Heid, Fang Tang

California State Polytechnic University, Pomona, California, USA

SESSION 6-ICAI: COMPUTATIONAL INTELLIGENCE, DATA FUSION, AI, AND NOVEL APPLICATIONS

Chair: TBA

July 23, 2014 (Wednesday); 03:40pm - 05:40pm

(LOCATION: Ballroom 4)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be

moved up in order to close time gaps in the session.

03:40 - 04:00pm: The Influence of Eye-gaze on the Accuracy of a P300 Speller

Jin-Sup Eom, Mi-Sook Park, Young-Ji Eom, E-Nae Cheong, Jin-Hun Sohn

Department of Psychology, Brain Research Institute, Chungnam

National University, Daejeon, South Korea

04:00 - 04:20pm: Multisource Image Fusion Based on Wavelet Transform

Naveed Khan

King Saud University, Riyadh, Saudi Arabia

04:20 - 04:40pm: Improving Recall of Context-sensitive Spelling Correction Using the

Relaxation of Particle Constraint Conditions Hyun Soo Choi, Aesun Yoon, Hyuk-Chul Kwon

Pusan National University, Busan, Republic of Korea

04:40 - 05:00pm: Malware Detection with Computational Intelligence

Brittany Byrd, Rakesh Malik, Venkata Kandalam, Qingzhong Liu

Sam Houston State University, Huntsville, Texas, USA

05:00 - 05:20pm: Neural Pathways in Processing of Sexual Arousal: A Dynamic Causal

Modeling Study

Ji-Woo Seok, Mi-Sook Park, Sunju Sohn, Jin-Hun Sohn

Department of Psychology, Brain Research Institute, Chungnam

National University, Daejeon, South Korea;

Department of Social Welfare, Cheongju University, South Korea

05:20 - 05:40pm: Cross-Country Technologies of Spherical Mobile Robot

Zhao Wei, Sun Hanxu

School of Automation, Beijing University of Post and

Telecommunication, P. R. China

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES (Please see the lists at the begining of this book for details)

SESSION 7-ICAI: (CONCURRENT SESSION WITH SESSION 10-ICAI)

FUZZY LOGIC & SYSTEMS AND APPLICATIONS + ANN

INFORMATION RETRIEVAL & SEARCH METHODS + DECISION SUPPORT SYSTEMS

+ MEDICAL APPLICATIONS, ASSISTIVE LIVING AND HEALTHCARE

XXX Chair (08:00am - 10:40am): TBA

XXX Chair (10:40am - 12:20pm): Prof. Xiao-Hua Yu; California

Polytechnic State University, San Luis Obispo, California, USA

July 24, 2014 (Thursday); 08:00am - 12:20pm

(LOCATION: Ballroom 4)

08:00 - 08:20am: Application Of Artificial Neural Network Model in Forecasting Zaria

Rainfall, Kaduna State, Nigeria

Folorunsho Joseph Olaniyi

Department of Geography, Kaduna State University, Nigeria

08:20 - 08:40am: Processing of ICARTT Data Files Using Fuzzy Matching and

Parser Combinators

Matthew T. Rutherford, Nathan D. Typanski, Dali Wang, Gao Chen

Christopher Newport University, Virginia, USA;

NASA Langley, Hampton, Virginia, USA

08:40 - 09:00am: Underwater Acoustic Monitoring Using MFCC for Fuzzy C-Means Clustering,

Naive-Bayes and Hidden Markov Model-Based Classifiers Cristian H. Alzate, Samira E. Ortiz, Vidya Manian University of Puerto Rico, Mayaguez Campus, Puerto Rico

09:00 - 09:20am: Optimal Damping of Oscillation in Multi-machine Power System by

Renewable Energy Effects

H. A. Shayanfar, O. Abedinia, N. Amjady

Center of Excellence for Power System Automation and Operation,

Iran University of Science and Technology, Tehran, Iran;

Electrical Engineering Department, Semnan University, Semnan, Iran

09:20 - 09:40am: FDM Based MOP to Attune IPFC POD Controller and Dual-Input PSS

in Order to Improve Power System Dynamic Performance

H. Shayeghi, Y. Hashemi, H. A. Shayanfar

University of Mohaghegh Ardabili, Ardabil, Iran;

Iran University of Science and Technology, Tehran, Iran

09:40 - 10:00am: Improving Clinical Practice using Clinical Decision Support

Systems with Medical Logic Modules Christian J. Schuh, Jeroen S. De Bruin

Center for Medical Statistics, Informatics and Intelligent Systems (CeMSIIS), Medical University of Vienna, Vienna, Austria

10:00 - 10:20am: Using an Inference Engine for AI in the Office Tactics Video Game

Arturo I. Concepcion, Edward Munoz, Matthew Hawkins, Diane Balane

School of Computer Science & Engineering, California State

University San Bernardino, California, USA

10:20 - 10:40am: BREAK

10:40 - 11:00am: Topic-Model Based Query Intent Prediction for Search by Multiple

Examples

Mingzhu Zhu, Chao Xu, Yi-Fang Brook Wu

New Jersey Institute of Technology, New Jersey, USA

11:00 - 11:20am: A Hybrid Search Method to Find Minimal Length Paths for Navigation

Route Planning

Yong-Hu Lee, Sang-Woon Kim

Department of Computer Engineering, Myongji University, South Korea

11:20 - 11:40am: MRI Image Registration With Artificial Neural Networks

Pramod Gadde, Xiao-Hua Yu

California Polytechnic State University, San Luis Obispo,

California, USA

11:40 - 12:00pm: Application of an Autonomous System for Identification of Some

Living Activities in Bathroom Fu-Hua Chou, Sue-Ping Yuan

Chien Hsin University of Science and Technology, Taiwan, R.O.C.;

Taiwan Implant Technology Company, Taiwan, R.O.C.

12:00 - 12:20pm: A Comparative Analysis for Mobile and Computer-Based Aphasia Therapy

Kamuela Parker, Heui-Seok Lim

Korea University, Seoul, South Korea

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 8-ICAI: (CONCURRENT SESSION WITH SESSION 10-ICAI)

LEARNING METHODS + ONTOLOGY, ONTOLOGICAL ARGUMENTS, AND LOGIC

+ KNOWLEDGE REPRESENTATION AND KNOWLEDGE BASED SYSTEMS

Chair: TBA

July 24, 2014 (Thursday); 01:20pm - 03:00pm

(LOCATION: Ballroom 4)

01:20 - 01:40pm: A Protocol for Intelligent Agent Systems Enabling Incidental

Learning on the Web Hongxue (Harris) Wang

Athabasca University, Alberta, Canada

01:40 - 02:00pm: The Cognitive, Interactive Training Environment (CITE)

James A. Crowder, Shelli Friess

Raytheon Intelligence, Aurora, Colorado, USA; Relevant Counseling, Englewood, Colorado, USA

02:00 - 02:20pm: A Population-Based Incremental Learning Tool for Finite Impulse

Response (FIR) Filters Design

Katherine Ortega Galeano, Freddy Bolanos Martinez

Universidad Nacional de Colombia, Colombia

02:20 - 02:40pm: Error Analysis for Vector-Valued Regularized Least-Squares Algorithm

Yong Liu, Shizhong Liao

Tianjin University, Tianjin, P. R. China

02:40 - 03:00pm: Ontologies to Coordinate Multiple Views: Exploring Document Collections

Jorge Marques Prates, Rogerio Eduardo Garcia, Danilo Medeiros Eler UNESP-Universidade Estadual Paulista, Presidente Prudente, SP, Brazil

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION D-ICAI

July 24, 2014 (Thursday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 9-ICAI: (CONCURRENT SESSION WITH SESSION 11-ICAI)

AI, ALGORITHMS & APPLICATIONS + COMPUTATIONAL SCIENCE AND

COMPUTATIONAL INTELLIGENCE

XXX Chair: Prof. Dr. Edgard Thomas Martins; Federal University of Brazil,

Brazil

July 24, 2014 (Thursday); 03:40pm - 05:00pm

(LOCATION: Ballroom 4)

03:40 - 04:00pm: Education Environment Comparative Studies: Actors And Resources In

Distance

Edgard Thomas Martins, Isnard Thomas Martins Universidade Federal de Pernambuco, Recife, Brazil;

Institute for Universidade Estacio de Sa, Advanced Systems Engineering,

Rio de Janeiro, Brazil

04:00 - 04:20pm: An Extraction Method of Influential Lightings for Illuminance Sensors

on An Intelligent Lighting System in Large Office

Hisanori Ikegami, Miki Mitsunori, Sho Kuwajima, Hiroto Aida

Doshisha University, Kyoto, Japan

04:20 - 04:40pm: Constraint Based Staff Scheduling Optimization Using Single Player

Monte Carlo Tree Search

Cheechian Cheng, Norman Carver

Southern Illinois University, Carbondale, Illinois, USA

04:40 - 05:00pm: Combination and Analysis of Features from Forensic Letters

Aline Maria M. M. Amaral, Cinthia O. A. Freitas, Flavio Bortolozzi

UNICESUMAR - Centro Universitario de Maringa, Brazil; PUCPR - Pontificia Universidade Catolica do Parana, Brazil

SESSION 10-ICAI: (CONCURRENT SESSION WITH SESSIONS 7-ICAI & 8-ICAI)

AI SYSTEMS + NEURAL NETWORKS AND APPLICATIONS + DATA MINING +

MACHINE LEARNING

XXX Chair: Dr. John N. Carbone; Raytheon Intelligence, Information

and Services, Colorado, USA

July 24, 2014 (Thursday); 10:40am - 03:00pm

(LOCATION: Ballroom 1)

10:40 - 11:00am: Application of Multilayer Perceptrons for Response Modeling

Anatoli Nachev, Mairead Hogan

Business Information Systems, Cairnes Business School,

National University of Ireland, Galway, Ireland

11:00 - 11:20am: Towards Optimizing the Selection of Neurons in Affordable Neural

Networks

Joel T. Ausonio, Richard J. Mitchell, William Holderbaum

School of Systems Engineering, University of Reading, Reading, UK

11:20 - 11:40am: XXX FREE SLOT

11:40 - 12:00pm: Psychological Constructs for AI Systems: The Information Continuum

James A. Crowder

Raytheon Intelligence, Aurora, Colorado, USA

12:00 - 12:20pm: A Study on Violence in Major Metropolises Using a Variables Treatment

via Neural Networks - Self Organizing Maps

Isnard T. Martins, Edgard Martins Universidade Estacio de Sa, Brazil;

Universidade Federal de Pernambuco, Brazil

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: XXX FREE SLOT

01:40 - 02:00pm: A Hybrid Artificial Neural Network and VEPSO based on Day-ahead Price

Forecasting of Electricity Markets
O. Abedinia, N. Amjady, H. A. Shayanfar

Electrical Engineering Department, Semnan University, Semnan, Iran; Faculty of Engineering, South Tehran Branch, Islamic Azad University,

Tehran, Iran

02:00 - 02:20pm: Use of Artificial Neural Networks for Completing Data Series

Streamflow Hydrologic

Sergio Luis Yoneda, Rogerio Andrade Flauzino, Lucas Assis De Moraes,

Marcel Ayres De Araujo

University of Sao Paulo USP, Sao Carlos, Brazil

02:20 - 02:40pm: FREE SLOT

02:40 - 03:00pm: FREE SLOT

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION D-ICAI

July 24, 2014 (Thursday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 11-ICAI: (CONCURRENT SESSION WITH SESSION 9-ICAI)

KNOWLEDGE ENGINEERING, EVOLUTIONARY STRATEGIES, GENETIC ALGORITHMS

AND NOVEL APPLICATIONS

XXX Chair: Dr. John N. Carbone; Raytheon Intelligence, Information

and Services, Colorado, USA

July 24, 2014 (Thursday); 03:40pm - 05:00pm

(LOCATION: Ballroom 1)

03:40 - 04:00pm: Global Temperature Vs. Greenhouse Emissions Model: Genetic Algorithm

Driven Parametric Multiobjective Fitting

Javier Sanchez-Medina, Jeffrey Miller, Enrique Rubio-Royo

University of Las Palmas de Gran Canaria, Spain;

University of Southern California, Los Angeles, California, USA

04:00 - 04:20pm: Eliminating Cognitive Ambiguity with Knowledge Relativity Threads

James A. Crowder, John Carbone

Raytheon Intelligence, Aurora, Colorado, USA

04:20 - 04:40pm: Implementation of an Evolutionary Algorithm Using the Node-Depth-Degree

Encoding in a Nios II processor in FPGA

Gustavo Siqueira Vinhal, Telma Woerle De Lima, Anderson Da Silva Soares, Gustavo Teodoro Laureano, Clarimar Jose Coelho, Marcilyanne Moreira Gois,

Alexandre Claudio Botazzo Delbem Federal University of Goias, Brazil

04:40 - 05:00pm: Genetic Algorithm Based Optimization for Energy-aware Hybrid Flow

Shop Scheduling

Jihong Yan, Jing Wen, Lin Li

Harbin Institute of Technology, Harbin, P. R. China

SESSION 12-ICAI: XIV TECHNICAL SESSION ON APPLICATIONS OF ADVANCED AI TECHNIQUES TO INFORMATION MANAGEMENT FOR SOLVING COMPANY-RELATED PROBLEMS

Co-Chairs: Dr. David de la Fuente; University of Oviedo, Spain;

Dr. Jose A. Olivas, University of Castilla - La Mancha, Spain

July 24, 2014 (Thursday); 05:00pm - 06:00pm

(LOCATION: Ballroom 1)

05:00 - 05:20pm: From the RCPSP to the DRCMPSP: Methodological Foundations

F. A. Villafanez, A. Lopez-Paredes, J. Pajares, D. De la Fuente Escuela de Ingenierias Industriales, Sede Paseo del Cauce, University

of Valladolid, Valladolid, Spain

05:20 - 05:40pm: Improving Business Processes Management Systems by Introducing Soft

Computing Elements

Francisco P. Romero, Arturo Peralta, Jose A. Olivas, and

Jesus Serrano-Guerrero

University of Castilla-La Mancha, Ciudad Real, Spain

05:40 - 06:00pm: Summarizing Information by Means of Causal Sentences

C. Puente, J. A. Olivas, I. Prado

Advanced Technical Faculty of Engineering - icai, Pontificia

Comillas University, Madrid, Spain

ICWN'14 CONFERENCE SCHEDULE

The 2014 International Conference on Wireless Networks (ICWN'14)

There are a number of other sessions (not listed as part of ICWN'14 in this schedule) that are of potential interest to ICWN'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in SAM'14, ESA'14, FECS'14, GCA'14, ICOMP'14, and PDPTA'14 conferences discuss topics that are within the scope of ICWN'14; these have been scheduled so that selected ICWN'14 groups or attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

CONGRESS OPENING REMARKS - July 21, Monday: 08:30 - 08:45am:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: **KEYNOTE LECTURE 1 - July 21, Monday:**

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: **KEYNOTE LECTURE 3 - July 21, Monday:**

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force

on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-ICWN: MOBILE COMPUTING + WIRELESS NETWORK APPLICATIONS, AD-HOC NETWORKS,

> VANET, NOVEL ALGORITHMS, PROTOCOLS AND RELATED TECHNOLOGIES XXX Chair: Prof. Hwajung Lee; Radford University, Virginia, USA

July 21, 2014 (Monday); 01:00pm - 03:00pm

(LOCATION: Platinum Room)

01:00 - 01:20pm: TTraffic: A Fully Integrated Accident Management System in

Vehicular Networks Through Smartphones

Sevgi Kaya, Burcu Gulfem Ozergin, Halid Ozsoy, Taskin Kocak,

and Cagri Gungor

ETH Zurich, Zurich, Switzerland; Bahcesehir University, Istanbul,

Turkey; Abdullah Gul University, Kayseri, Turkey

01:20 - 01:40pm: Application Of Autonomous Mobile Agents

Odhiambo Marcel O., Aderemi Lawal

University of South Africa, South Africa

01:40 - 02:00pm: Fixed Cluster Head Based Routing For Heterogeneous Mobile

Wireless Sensor Network

Jaideep Lakhotia, Rajeev Kumar

National Institute of Technology, Hamirpur, India

02:00 - 02:20pm: Region Authority (RA) Collaborated Certificate Organization

and Management in VANET

Shahnawaj Khan, Naveen Chauhan

National Institute of Technology, Hamirpur, India

02:20 - 02:40pm: A Heuristic Algorithm for Longest Simple Cycle Problem

Parveen Kumar, Nitin Gupta

National Institute of Technology, Himachal Pradesh, India

02:40 - 03:00pm: Performance Evaluation of 6LoWPAN Based Networks for Ubiquitous

Health Monitoring System

Waiser Mehmood, Adel Ben Mnaouer, Ammad Hassan, Rohan Tabish,

Brahim Gaabab, Farid Touati Qatar University, Doha, Qatar;

Canadian University of Dubai, Dubai, UAE

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-ICWN

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. A New Routing Protocol for Improving Path Stability in

Mobile Ad-hoc Networks

Hyung-Jik Kim, Hae-Il Choi, And Sunwoong Choi

School of Electrical Engineering, Kookmin University, Korea

0. ..

SESSION 2-ESA: EMBEDDED SYSTEMS + HPC + SENSORY DEVICES + NETWORK ON CHIP

SYSTEMS AND APPLICATIONS

XXX Co-Chairs: Prof. Ken Ferens; University of Manitoba, Canada; Dr. Mebougna Laze Drabo; Alabama A&M University,

Alabama, USA

July 21, 2014 (Monday); 03:40pm - 05:40pm

(LOCATION: Silver Room)

NOTE the room change - Also only a subset of Session 2-ESA is listed here (only the parts that are of potential interest to

the ICWN attendees).

03:40 - 04:00pm: Embedded MTT-DAS Application Prototyping on an FPGA Based

Multiprocessor Architecture Benaoumeur Senouci, Smail Niar

University of Burgundy, LE2I Laboratory, Dijon, France;

University of Valenciennes Hainaut-Cambresis, Valenciennes, France

04:00 - 04:20pm: Reducing DDR Latency for Embedded Image Steganography

James Haralambides, Lukas Bijaminas

Barry University, Miami Shores, Florida, USA

04:20 - 04:40pm: Dynamic-prelink: An Enhanced Prelinking Mechanism without

Modifying Shared Libraries

Hyungjo Yoon, Changwoo Min, Young Ik Eom

Sungkyunkwan University, Korea; Samsung Electronics, Korea

04:40 - 05:00pm: XXX FREE SLOT

05:00 - 05:20pm: Hardware/Software Co-design of Particle Filter in Grid

Based Fast-SLAM Algorithm

B. G. Sileshi, C. Ferrer, J. Oliver

Universitat Autonoma de Barcelona, Bellaterra (Barcelona), Spain; Institut de Microelectronica de Barcelona (CNM-CSIC), Bellaterra

(Barcelona), Spain

05:20 - 05:40pm: A Cognitive Approach for Stroke Rehabilitation by Acute

Hand Monitoring

R. Hema Barathi, D. Ramya Priyadarshini, K. Sowmya, M. Ramalatha Department of Information Technology, Kumaraguru College of

Technology, Coimbatore, India

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 2-ICWN: SENSOR NETWORKS AND APPLICATIONS + RELATED ISSUES

XXX Chair: Dr. Hui Liu; Missouri State University, Missouri, USA

July 22, 2014 (Tuesday); 08:00am - 10:20am

(LOCATION: Platinum Room)

08:00 - 08:20am: A Software Update Method Using Clustering WSNs

Hyeyeong Jeong, Byoungchul Ahn

Yeungnam University, Gyeongsan, South Korea

08:20 - 08:40am: Packet Loss Resilience Lighting Control for Wireless

Sensor Networks

Yushi Uchimura, Hiroto Aida, Ryoga Okunishi, Yo Motoya,

and Mitsunori Miki

Doshisha University, Kyoto, Japan

08:40 - 09:00am: Performance Analysis of IEEE 802.15.4 For Intra-Vehicle

Wireless Networks Utayba Mohammad

University of Detroit Mercy, Detroit, Michigan, USA

09:00 - 09:20am: Time Synchronization Protocol Using Lighting Control for

Wireless Sensor Network

Shoichi Nagamitsu, Hiroto Aida, Ryoga Okunishi, Yo Motoya,

and Mitsunori Miki

Doshisha University, Kyoto, Japan

09:20 - 09:40am: Lifetime Extension Algorithms for the Connected Sensor Cover

Daisuke Matsumoto, Akihiro Fujiwara Kyushu Institute of Technology, Japan

09:40 - 10:00am: Detecting Boundary Nodes in WSN

Nihel Senouci, Moustafa Kouider El Ouahed, Haffaf Hafid

University of Oran, Algeria

10:00 - 10:20am: An Energy Efficient Routing Algorithm Based on Centers of

Local Clustering in Wireless Sensor Networks

Chung Sei Rhee

Chungbuk National University, South Korea

10:20 - 10:40am: BREAK

SESSION 3-ICWN: WIRELESS NETWORKS AND SECURITY ISSUES + IOT + BROADCASTING

AND TELE-CONTROL SYSTEMS

XXX Chairs: Harminder Singh Bindra; Malout Institute of Management and Information Technology, India

July 22, 2014 (Tuesday); 10:40am - 12:40pm

(LOCATION: Platinum Room)

10:40 - 11:00am: Hierarchical-Based Measurement of Situation Awareness in

the Internet of Things

Audrey Gendreau, Rita M. Barrios

Saint Leo University, Saint Leo, Florida, USA; University of Detroit Mercy, Detroit, Michigan, USA

11:00 - 11:20am: Investigating Performance of Extended Epidemic Routing Protocol

of DTN under Routing Attack

Harminder Singh Bindra, A. L. Sangal

Dr. B R Ambedkar National Institute of Technology, India;

DAV Institute of Engineering and Technology, India

11:20 - 11:40am: TinyWatermark: A Code Obfuscation-based Software Watermarking

Framework for Wireless Sensor Networks

Emanuele N. De L. F. Jorge, Luci Pirmez, Rafael De O. Costa, Igor L. Dos Santos, Claudio M. De Farias, Davidson R. Boccardo,

and Luiz F. R. Da C. Carmo

Programa de Pos-Graduacao em Informatica Instituto Tercio

Paccitti / Instituto de Matematica Universidade Federal do Rio de

Janeiro, Rio de Janeiro, RJ, Brazil; Instituto Nacional de Metrologia, Normalizacao e Qualidade Industrial, Brazil

11:40 - 12:00pm: Source-Location Privacy Protection in Wireless Sensor Networks

Using AZR Routing

Zhiwen Zeng, Meili Zeng, Zhigang Chen, Min Zhao, Hui Liu School of Information Science and Engineering, Central South

University, Changsha, P. R. China;

Department of Computer Science, Missouri State University,

Springfield, Missouri, USA

12:00 - 12:20pm: Performance Analysis of Broadcasting Real-Time Data Placement

over Wireless Multi-Channels

Ding-Jung Chiang, Ching-Sheng Wang, Chien-Liang Chen Department of Digital Multimedia Design, Taipei Chengshih University of Science and Technology, Taipei, Taiwan, R.O.C.; Department of Computer Science and Information Engineering,

Aletheia University, Taipei, Taiwan, R.O.C.

12:20 - 12:40pm: Joint of Feedback and Feedforward Controller on Application to

Wireless Tele-Control System Considering Uncertainty

Faramarz Alsharif, Shiro Tamaki, Katsumi Yamashita, Tustomu Nagado,

Mohammad Reza Alsharif, Heung Gyoon Ryu

University of the Ryukyus, Japan; Osaka Prefecture University,

Japan; Chungbuk National University, South Korea

12:40 - 01:40pm: LUNCH (On Your Own)

SESSION 6-SAM: COMPUTER AND HARDWARE SECURITY

Co-Chairs: Dr. Nicolas Sklavos, Technological Educational Institute of

Western Greece, Greece;

Dr. Samuel Ndueso John, Covenant University, Nigeria

July 22, 2014 (Tuesday); 01:40am - 02:20pm

(LOCATION: Ballroom 2)

NOTE the room change - Also only a subset of Session 6-SAM is listed here (only the parts that are of potential interest to

the ICWN attendees).

01:40 - 02:00pm: Autonomic Intrusion Detection System in Cloud Computing with Big Data

Kleber M. M. Vieira, Fernando Schubert, Guilherme A. Geronimo,

Rafael de Souza Mendes, Carlos B. Westphall

The Federal University of Santa Catarina (UFSC), Santa Catarina, Brazil

02:00 - 02:20pm: Fourier Transform as Feature Extraction for Malware Classification

Stanislav Ponomarev, Nathan Wallace, Travis Atkison Louisiana Tech University, Ruston, Louisiana, USA SESSION 7-SAM: SPECIAL TRACK ON IOT AND SCADA CYBERSECURITY EDUCATION

Chair: Prof. George Markowsky; Professor & Associate Director, School of Computing & Information Science, University of Maine, Orono, Maine, USA

July 22, 2014 (Tuesday); 02:20pm - 03:00pm

(LOCATION: Ballroom 2)

NOTE the room change - Also only a subset of Session 7-SAM is listed here (only the parts that are of potential interest to

the ICWN attendees).

02:20 - 02:40pm: MODBUS Covert Channel

Carlos Leonardo, Daryl Johnson

Networking, Security & Systems Administration, Rochester Institute of

Technology, Rochester, New York, USA

02:40 - 03:00pm: A Behavior-Based Covert Channel in a MMQ

Brian Rowe, Daryl Johnson

Networking, Security & Systems Administration, Rochester Institute of

Technology, Rochester, New York, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-ICWN

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 04:20pm: GENERAL INVITED LECTURE:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-

REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria

School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: GENERAL PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY

INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter

Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 4-ICWN: WIRELESS NETWORKS AND SECURITY ISSUES + IOT AND

AD-HOC NETWORKS, VANET, NOVEL ALGORITHMS, PROTOCOLS AND

RELATED TECHNOLOGIES + ENERGY EFFICIENCY ISSUES

XXX Co-Chairs: Dr. Audrey A. Gendreau; Saint Leo University, Florida, USA;

Prof. Devi Chadha; Indian Institute of Technology, Delhi,

India;

Dr. Samuel Ndueso John; Head of Dept., Covenant University,

Nigeria

July 23, 2014 (Wednesday); 08:00am - 12:40pm

(LOCATION: Platinum Room)

08:00 - 08:20am: Applying TCP Profiling to Detect Wireless Rogue Access Point (AP)

James Yu

DePaul University, Chicago, Illinois, USA

08:20 - 08:40am: One-time Pad Cipher Based on Out-Key Distribution

Shengyuan Wu

Shandong University, Jinan, P. R. China

08:40 - 09:00am: Ultra High Video Data Compression for Android Devices Using

OpenCV and other Open-Source Tools

Ronald Yu, Tong Lai Yu

University of California, Irvine, California, USA;

California State University, San Bernardino, California, USA

09:00 - 09:20am: Self-aligning Wireless Communication for First Responder

Organizations in Interoperable Emergency Scenarios

Peter Dorfinger, Georg Panholzer, Ferdinand Von Tuellenburg,

Massimo Cristaldi, Giovanni Tusa, Franz Boehm

Salzburg Research Forschungsgesellschaft mbH, Salzburg, Austria; Intelligence for Environment & Security - IES Solutions, Catania,

Italy; Roofnode, Unterrabnitz, Austria

09:20 - 09:40am: UWB Antenna Equalization of Pulse Modulation for IEEE

802.15.4a UWB PHY

Loay Khalaf

The University of Jordan, Amman, Jordan

09:40 - 10:00am: Wireless-Aware Congestion Control for Transmission over

Heterogeneous Networks

Jyun-Siou Fan, Sheng-Shuen Wang, Hsu-Feng Hsiao National Chiao Tung University, Taiwan, R.O.C.

10:00 - 10:20am: Performance Improvement in Subcarrier QAM Free Space Optical

Links in the Presence of Atmospheric Turbulence and Pointing

Error with Spatial Diversity and Beam Optimization

D. Chadha, Bhaskar Chakravarty

Indian Institute of Technology, Delhi, India

10:20 - 10:40am: BREAK

10:40 - 11:00am: Design of the TDMA Baseband Modem for Voice Relay

Yeonbo Kim, Yong-Wook Bae, Byoungchul Ahn

Daegu University, Gyungsan, South Korea; Kyungwoon University, Gumi, South Korea; Yeungnam University, Gyungsan, South Korea

11:00 - 11:20am: Analysis of Handover Based on the Use of Femtocells in

LTE Networks

Ketyllen Da Costa Silva, Carlos P. Alves da Silva, Andre C. de Sousa Donza, Carlos Renato Frances, Nandamudi L. Vijaykumar

Federal University of Para, Belem, Brazil;

National Institute for Space Research, Sao Jose dos Campos, Brazil

11:20 - 11:40am: A Simulation Study of Effect of MPLS on Latency over a Wide

Area Network (WAN)

Adewale Adeyinka A., John Samuel N., Ndujiuba Charles

Covenant University, Ota, Ogun State, Nigeria

11:40 - 12:00pm: A New Power Saving Routing Algorithm for Delay Tolerant Networks

Azadeh Omidvar, Karim Mohammadi

Iran University of Science and Technology, Tehran, Iran

12:00 - 12:20pm: Energy-efficient Heuristics for Multi Hop Routing in

People-centric Environments

Antonio Junior, Rosario Ribeiro, Tercio Filho, Dalton Matsuo,

Marcos Batista, Claudio Souza, Jose-Ricardo Ribeiro

University Federal of Goias (UFG), Brazil;

Centro Universitario de Goias - Uni-ANHANGUERA, Brazil

12:20 - 12:40pm: QoS-Based Power-Efficient Resource Management for LTE-A Networks

with Relay Nodes Kai-Ten Feng

National Chiao Tung University, Taiwan, R.O.C.

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 11-SAM: SECURITY MANAGEMENT II + SECURITY EDUCATION

Chair: Dr. Diala Abi Haidar; Dar Al Hekma University, Saudi Arabia

July 23, 2014 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Ballroom 2)

01:20 - 01:40pm: Security Management of Bring-Your-Own-Devices

Sara Gallotto, Weifeng Chen

Southern New Hampshire University, Manchester, New Hampshire, USA; California University of Pennsylvania, California, Pennsylvania, USA

01:40 - 02:00pm: SIPPA Approach Towards a Privacy Preserving Voice-based

Identity Solution

Bon K. Sy

Queens College & University Graduate Center, Flushing, New York, USA

02:00 - 02:20pm: Creating a Policy Based Network Intrusion Detection System Using

Java Platform

Samuel N. John, Charles U. Ndujiuba, Robert E. Okonigene,

Chinonso E. Okereke, Miebaka E. Wakama Covenant University, Ogun State, Nigeria; Ambrose Alli University, Edo State, Nigeria

02:20 - 02:40pm: LearnFire: A Firewall Learning Tool for Undergraduate Cybersecurity

Courses

Alicia Kirkland, Jens Mache

Lewis & Clark College, Portland, Oregon, USA

02:40 - 03:00pm: Teaching Cybersecurity to Wide Audiences with Table-Top Games

Tadhg Fendt, Jens Mache

Lewis & Clark College, Portland, Oregon, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-ICWN

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 05:40pm: During this period, ICWN attendees are encouraged to participate

in sessions belonging to SAM'14, ESA'14, FECS'14, GCA'14, ICOMP'14,

or PDPTA'14 conferences. These sessions discuss topics that

significantly overlap the scope of ICWN'14.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 5-ICWN: OPTIMIZATION METHODS + GRID ARCHITECTURES + SENSOR NETWORKS +

CONTEXT AWARE NETWORKING + TCP + SECURITY

Chairs: TBA

July 24, 2014 (Thursday); 08:00am - 12:20pm

(LOCATION: Platinum Room)

NOTE: We anticipate a number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps

in the session.

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: FREE SLOT

08:40 - 09:00am: XXX FREE SLOT

09:00 - 09:20am: XXX A Transmission Parameter Optimization Scheme for GA-based

Cognitive Engines

XXX Keunhong Chae, Huaping Liu, Seokho Yoon

Sungkyunkwan University, Suwon, Korea;

XXX Oregon State University, Corvallis, Oregon, USA

09:20 - 09:40am: Performance Evaluation of NeBuST-wide Burst Sensor Data

Transmission Protocol

Hiroaki Higaki

Tokyo Denki University, Tokyo, Japan

09:40 - 10:00am: Performance Evaluation of a Layered WSN Using AODV and MCF

Protocols in NS-2

Apoorva Dasari, Mohamed El-Sharkawy

Purdue school of Engineering and Technology, USA

10:00 - 10:20am: Smart and Context Aware Networking for University Campus

Ghassan Kbar, Akshay Bahatia, Wathiq Mansoor

Riyadh Techno Valley, Riyadh, Kingdom of Saudi Arabia;

American University in Dubai, Dubai

10:20 - 10:40am: BREAK

10:40 - 11:00am: Energy Conserving Cooperative Caching Technique for Wireless

Multimedia Sensor Networks

Narottam Chand

National Institute of Technology, Hamirpur, India

11:00 - 11:20am: Energy Efficient Cluster Based Routing Using Time Series

Prediction in Wireless Sensor Networks

Surender Kumar Soni

National Institute of Technology, Hamirpur, India

11:20 - 11:40am: Cluster Head Centric Cooperative Caching in Wireless Sensor

Networks Ashok Kumar

National Institute of Technology, Hamirpur, India

11:40 - 12:00pm: Comparison Study Between TCP, UDP and RTP Protocols - Instant

Messaging and Conferencing Systems Design

Bashar M. Nema, Maisaa A. Atya

Ministry of Higher Education, Baghdad, Iraq; Mustansaryiah University, Baghdad, Iraq

12:00 - 12:20pm: Development of a Secure Network System for Complex Networks

Johnson Uche Olu-Egbuniwe

Girne American University, Turkey

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 13-ESA: NETWORK ON CHIP + EMBEDDED SYSTEMS AND APPLICATIONS

XXXX Chairs: David O. Jegede; University of Manitoba, Canada

July 24, 2014 (Thursday); 01:20pm - 02:00pm

(LOCATION: Silver Room)

NOTE the room change.

01:20 - 01:40pm: A Primer for Mapping Techniques on NoC Systems

Maribell Sacanamboy, Freddy Bolanos

Computer Sciences and Electronics Department, Pontificia

Universidad Javeriana - Cali, Colombia; Electrical Engineering and Automatics Department, National University of Colombia,

Medelln, Colombia

01:40 - 02:00pm: Intelligent Assistive Device To Monitor The Ankle-Foot Orthosis

S. Vengateswaran, V. Ramani, M. Ramalatha

Department of Information Technology, Kumaraguru College of

Technology, Coimbatore, India

02:00 - 05:40pm: During this period, ICWN attendees are encouraged to participate

in sessions belonging to SAM'14, ESA'14, FECS'14, GCA'14, ICOMP'14,

or PDPTA'14 conferences. These sessions discuss topics that

significantly overlap the scope of ICWN'14.

IKE'14 & GEM'14 CONFERENCE SCHEDULES

The 2014 International Conference on Information & Knowledge Engineering (IKE'14)

+

The 2014 International Conference on Genetic & Evolutionary Methods (GEM'14)

Because of partial topical and technical overlap between IKE'14 and GEM'14 tracks, the schedule of GEM'14 is merged with the schedule of IKE'14, resulting a comprehensive schedule. It is hoped that this would encourage the participants of the two conferences to explore cross-fertilization of ideas. There are also a number of other sessions (not listed as part of these two conferences) that are of potential interest to IKE'14 and GEM'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in ICAI'14, DMIN'14, ABDA'14, ICOMP'14, and EEE'14 conferences discuss topics that are within the scope of IKE'14 and GEM'14; these have been scheduled so that selected IKE'14 and GEM'14 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:20p: LUNCH (On Your Own)

01:20 - 03:00pm: During this period, IKE'14 and GEM'14 attendees are encouraged

to participate in sessions belonging to ICAI'14, DMIN'14,

ABDA'14, ICOMP'14, or EEE'14 conferences. These sessions discuss topics that significantly overlap the scope of IKE'14 and GEM'14.

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-IKE-GEM

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 04:40pm: During this period, IKE'14 and GEM'14 attendees are encouraged

to participate in sessions belonging to ICAI'14, DMIN'14,

ABDA'14, ICOMP'14, or EEE'14 conferences. These sessions discuss topics that significantly overlap the scope of IKE'14 and GEM'14.

SESSION 1-IKE: PROVISIONAL:

THIS SESSION MAY HAVE TO BE CANCELLED DUE TO THE POSSIBILITY OF

THE SPEAKERS NOT BEING ABLE TO SHOW UP.

TOPIC DECISION + SHARABLE RESEARCH AND METHODS

XXX Chair: Prof. Leon Deligiannidis; Wentworth Institute of Technology,

Boston, Massachusetts, USA

July 21, 2014 (Monday); 04:40pm - 05:40pm

(LOCATION: Ballroom 1)

04:40 - 05:00pm: Multi Hybrid Keyword Processing for Topic Decision of

Unstructured Data

Jinwoo Lee, Hyoungmin Ma, Gitae Lee, Kihong Ahn, Sukyoung Kim

University of National Hanbat, Daejoen, South Korea

05:00 - 05:20pm: Reference Integrator: A Workflow for Similarity Driven

Multi-sources Publication Merging

Suman Reddy Mallipeddi, Carol M. Lushbough, Etienne Z. Gnimpieba

University of South Dakota, South Dakota, USA

05:20 - 05:40pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

08:00a - 12:00p: During this period, IKE'14 and GEM'14 attendees are encouraged

to participate in sessions belonging to ICAI'14, DMIN'14,

ABDA'14, ICOMP'14, or EEE'14 conferences. These sessions discuss topics that significantly overlap the scope of IKE'14 and GEM'14.

12:00 - 01:00pm: INVITED LECTURE:

BIG DATA ISSUES FOR MINING KNOWLEDGE IN MAINTENANCE INFORMATION

SYSTEMS

Prof. Diego Galar

Division of Operation and Maintenance Engineering, Lulea University of Technology, Lulea, Sweden; Former Pro-Vice-Chancellor, Aragon

Institute for Engineering Research (I3A), Aragon, Spain

(LOCATION: Ballroom 1)

SESSION 2-IKE: DATA & INFORMATION MINING + FORECASTING METHODS + SIMULATION

+ CROWD-SOURCING + STOCHASTIC METHODS, VISUALIZATION METHODS

XXX Co-Chairs: Dr. Deok Hee Nam; Wilberforce University, Ohio, USA;
Prof. Leon Deligiannidis; Wentworth Institute of Technology,

Boston, Massachusetts, USA

July 22, 2014 (Tuesday); 01:00pm - 03:00pm

(LOCATION: Ballroom 1)

01:00 - 01:20pm: Identification of Compromised Power System State Variables

Nathan Wallace, Stanislav Ponomarev, Travis Atkison

Louisiana Tech University, Louisiana, USA

01:20 - 01:40pm: Multidimensional Scaling Using Neurofuzzy System and

Multivariate Analyses

Deok Hee Nam

Engineering and Computing Science, Wilberforce University,

Wilberforce, Ohio, USA

01:40 - 02:00pm: Mining the Reviews of Movie Trailers on YouTube and Comments on

Yahoo Movies

Li-Chen Cheng, Chi Lun Huang

Department of Computer Science and Information Management,

Soochow University, Taipei, Taiwan, R.O.C.

02:00 - 02:20pm: Segment, Synthesize and Repeat: CARP Paradigm for Consumption

of Digital Content

Indu Anand, Anurag Wakhlu

Sushila Publications, Chelmsford, Masachusetts, USA;

Coloci Inc., Chelmsford, Masachusetts, USA

02:20 - 02:40pm: Modeling File-Share Server Utilization Using Stochastic Techniques

Margret T. Martin, Sarah G. Nurre, Michael R. Grimaila

Air Force Institute of Technology, USA

02:40 - 03:00pm: Interactive Visualization of Business Births and Deaths in the

U.S. Economy Using a Novel Visualization Technique Called HiFi Pie

Leonidas Deligiannidis And Erik Noyes

Wentworth Institute of Technology, Boston, Massachusetts, USA;

Babson College, Babson Park, Massachusetts, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-IKE-GEM

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 3-GEM: GENETIC ALGORITHMS & APPLICATIONS + GENETIC PROGRAMMING +

OPTIMIZATION METHODS

Chairs: TBA

July 22, 2014 (Tuesday); 03:40pm - 05:40pm

(LOCATION: Ballroom 1)

03:40 - 04:00pm: The Parallelization of Two Constrained Optimization Problems

Using Evolutionary Algorithms

Michael Scherger, Roja Ramani Molupoju

Texas Christian University, Fort Worth, Texas, USA; Texas A&M University - Corpus Christi, Texas, USA

04:00 - 04:20pm: Improving the Multi-Restart Local Search Algorithm by Permutation

Matrices and Sorted Completion Times for the Flow Shop

Scheduling Problem

Juan C. Seck Tuoh Mora, Luis Garcia Lechuga, Joselito Medina Marin,

Norberto Hernandez Romero, Eva S. Hernandez Gress Area Academica de Ingenieria, Universidad Autonoma del

Estado de Hidalgo, Mexico

04:20 - 04:40pm: Design of a PID Control Gains for a Robotic Manipulator Under

Parametric Uncertainties by Using DE-SQP Algorithm

Miguel Gabriel Villarreal-Cervantes

Instituto Politecnico Nacional, CIDETEC, Mexico

04:40 - 05:00pm: Optimal Selection of Milling Parameters for Maximum Profit Rate

by Genetic Algorithms

Libao An, Peiqing Yang, Hong Zhang

College of Mechanical Engineering, Hebei United University,

Tangshan, P. R. China

05:00 - 05:20pm: Direction of Arrival Estimation Using Particle Swarm

Optimization-based SPECC

In-Sik Choi

Hannam University, South Korea

05:20 - 05:40pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

08:00a - 12:00p: During this period, IKE'14 and GEM'14 attendees are encouraged

to participate in sessions belonging to ICAI'14, DMIN'14,

ABDA'14, ICOMP'14, or EEE'14 conferences. These sessions discuss topics that significantly overlap the scope of IKE'14 and GEM'14.

12:00 - 01:00pm: INVITED LECTURE:

DATA SCIENCE EMERGENCE

Dr. Peter Geczy

National Institute of Advanced Industrial Science and Technology AIST, Japan; Institute of Physical & Chemical Research (RIKEN);

Research Center for Future Technologies

(LOCATION: Ballroom 1)

SESSION 4-GEM: SIMULATED ANNEALING, SWARM OPTIMIZATION ALGORITHMS + AGENT-BASED

ALGORITHMS + EVOLUTIONAY ALGORITHMS + ANN + FORCASTNIG METHODS XXX Co-Chairs: Dezhi (Derek) Li; University of Waterloo, Canada; Shachi Singh; University of Manitoba, Canada

July 23, 2014 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Ballroom 1)

01:20 - 01:40pm: A Novel Autoregressive Model for System State Prediction

Dezhi Li, Fathy Ismail, Wilson Wang

University of Waterloo, Waterloo, ON, Canada;

Lakehead University, ON, Canada

01:40 - 02:00pm: Optimized Path Planning for a Mobile Real Time Location System

(mRTLS) in an Emergency Department S. Singh, M. R. Friesen, R. D. Mcleod

University of Manitoba, Canada

02:00 - 02:20pm: Enhancement Of Power Quality Through Particle Swarm Optimization

L. Ravi Srinivas, B. Mahesh Babu, S. S. Tulasi Ram

Gudlavalleru Engineering College, India;

JNTUH, Hyderabad, India

02:20 - 02:40pm: Evolmusic - A Prefernce Learning Accompanist

Shu Zhang, Roi Ceren, Khaled Rasheed

University of Georgia, Athens, Georgia, USA

02:40 - 03:00pm: Evolution of Event and Delay Controlled Neural Network

for Locomotion

Maria Shirshova, Mikhail Burtsev

National Research Center "Kurchatov Institute", Moscow, Russia

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-IKE-GEM

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 5-IKE: SEARCH METHODS + DATA MODELS + FORECASTING METHODS + AGENT

TECHNOLOGIES AND APPLICATIONS + IMAGING SCIENCE

XXX Chair: Tahia Infantes Morris; R&D Product and Technology Development,
Vistakon, Division of Johnson & Johnson Vision Care, Inc., USA

July 23, 2014 (Wednesday); 03:40pm - 05:40pm

(LOCATION: Ballroom 1)

03:40 - 04:00pm: Efficient Image Segmentation Algorithm for Mobile Apps

Mark Smith

University of Central Arkansas, Conway, Arkansas, USA

04:00 - 04:20pm: Keyword Searches with Customized Preferences Yu-Chin Liu, Yi-Hsuan Chiang, Yu-Lien Hsieh

Department of Information Management, Shih Hsin University,

Taipei, Taiwan, R.O.C.

04:20 - 04:40pm: Ontology Inference Using Spatial and Trajectory Domain Rules

Rouaa Wannous, Jamal Malki, Alain Bouju, Cecile Vincent

L3i Laboratory, University of La Rochelle, France;

LIENSS Lab. & UMR, CNRS, University of La Rochelle, France

04:40 - 05:00pm: Large Scale Desalination: A Comparative Cost Affective Economic

Analyses Of Nuclear, Gas and Solar Powered Plants

Mohammed H. S. Al Ashry

Shaghra University, Saudi Arabia

05:00 - 05:20pm: Multi-Projects Scheduling Via Non-cooperative Agents Through

Heterogeneous Multiprocessor Systems For Energy Efficiency

Marjan Abdeyazdan

Department of Computer Engineering, Islamic Azad University,

Mahshahr, Iran

05:20 - 05:40pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 6-IKE: INFORMATION, KNOWLEDGE ENGINEERING & MANAGEMENT +

FEATURE EXTRACTION AND ARTIFICIAL INTELLIGENCE

Chairs: TBA

July 24, 2014 (Thursday); 08:00am - 10:20am

(LOCATION: Ballroom 1)

08:00 - 08:20am: XXX Agent Based Emergency Response Cognition Model

Safiye Sencer, Orhan Torkul, Kutlu Eren

Sakarya University, Turkey

08:20 - 08:40am: The Management of Project Knowledge in a Research

Organisation: Theory and Practice

Shahram Sokhanvar, Judy Matthews, Prasad Yarlagadda Queensland University of Technology, Australia

08:40 - 09:00am: An Approach to Multimedia Content Management

Giulio Concas, Filippo Eros Pani, Simone Porru Department of Electrics and Electronics Engineering, University Of Cagliari, Piazza d'Armi, Cagliari, Italy

09:00 - 09:20am: Collaborative Shared Awareness: Human-AI Collaboration

James A. Crowder, John Carbone

Raytheon Intelligence, Information and Services, Aurora,

Colorado, USA

09:20 - 09:40am: Face Recognition with Image Feature Weights and Least Mean

Square Learning Approach

Wei-Li Fang, Ying-Kuei Yang, Jung-Kuei Pan

National Taiwan University of Science & Technology, Taipei,

Taiwan, R.O.C.

09:40 - 10:00am: A Knowledge Based Selection Framework for Cloud Services

Gulfem Isiklar Alptekin, S. Emre Alptekin Galatasaray University, Istanbul, Turkey

10:00 - 10:20am: Towards a Knowledge Transfer Measurement for Software Requirements

Jose Jairo Camacho, Jenny Marcela Sanchez-Torres, and

Ernesto Galvis-Lista

Universidad Nacional de Colombia, Colombia;

Universidad del Magdalena, Colombia

10:20 - 10:40am: BREAK

10:40a - 05:40p: During this period, IKE'14 and GEM'14 attendees are encouraged

to participate in sessions belonging to ICAI'14, DMIN'14,

ABDA'14, ICOMP'14, or EEE'14 conferences. These sessions discuss topics that significantly overlap the scope of IKE'14 and GEM'14.

IPCV'14 CONFERENCE SCHEDULE

The 2014 International Conference on Image Processing, Computer Vision, & Pattern Recognition

There are a number of other sessions (not listed as part of IPCV'14 in this schedule) that are of potential interest to IPCV'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in MSV'14, DMIN'14, ABDA'14, FECS'14, ICAI'14, and GEM'14 conferences discuss topics that are within the scope of IPCV'14; these have been scheduled so that selected IPCV'14 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force

on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-IPCV: COMPUTER VISION AND APPLICATIONS

XXX Co-Chairs: Prof. Kyota Aoki; Utsunomiya University, Japan;
Dr. Hany A. Elsalamony; Helwan University, Cairo, Egypt

July 21, 2014 (Monday); 01:00pm - 03:00pm

(LOCATION: Gold Room)

01:00 - 01:20pm: FREE SLOT

01:20 - 01:40pm: Automated Hair Color Determination

Daniel S. Rosen, Cambron Carter

GumGum Inc., Santa Monica, California, USA

01:40 - 02:00pm: An Algorithm for Mobile Vision-Based Localization of Skewed

Nutrition Labels that Maximizes Specificity

Vladimir Kulyukin, Christopher Blay Utah State University, Logan, Utah, USA

02:00 - 02:20pm: Traffic Control by Digital Imaging Cameras

Loay Khalaf, Rowa Jamal, Karmel Manna, Maram Rabee

The University of Jordan, Jordan

02:20 - 02:40pm: An Orange Sorting Technique Based on Size and External Defects

Naeem Sattar, Sheikh Ziauddin, Sajida Kalsoom, Ahmad R. Shahid, Rafi Ullah, Amir H. Dar

COMSATS Institute of Information Technology, Pakistan

02:40 - 03:00pm: An Algorithm for In-Place Vision-Based Skewed 1D Barcode

Scanning in the Cloud

Vladimir Kulyukin, Tanwir Zaman

Utah State University, Logan, Utah, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-IPCV

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Similarity Measures for Fingerprint Matching Kareem K. A. Ghany, Aboul Ella Hassanien, Gerald Schaefer Beni Suef University, Egypt; Cairo University, Egypt; Loughborough University. UK

O. Motion Analysis of Horse-Rider for Coaching System Jae Neung Lee, Myung-Won Lee, Yeong-Hyeon Byeon, and Keun-Chang Kwak

Chosun University, Gwangju, South Korea

O. Real-time 3D Hand Pointing Using Depth Image Sung-Il Joo, Sun-Hee Weon, Hyung-Il Choi SoongSil University, Seoul, South Korea

O. Method for Correction of Lenses Distortion in Stereo Vision Joceli Mayer, Osmando Pereira Junior Federal University of Santa Catarina, Brazil

O. Depth-Assisted Error Concealment Algorithm for 3D Video Pin-Cheng Huang, Gwo-Long Li, Mei-Juan Chen, Kuang-Han Tai National Dong Hwa University, Hualien, Taiwan, R.O.C.

O. Continuous Gesture Recognition Using Hidden Markov Models Joceli Mayer, Vinicius Breda Federal University of Santa Catarina, Brazil

O. Facial Expressions From Raspberry Pi and Pi Camera Michel Chapron, Fleuri Adon, Jean-Baptiste Liagre ETIS, ENSEA, UCP, CNRS, Cergy-Pontoise, France

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SESSION 2-IPCV: BIOMETRICS + FACE RECOGNITION, EXPRESSION DETECTION,

HUMAN DETECTION

XXX Chairs: Prof. Singli Garcia-Otero; Virginia State University,

Petersburg, Virginia, USA July 21, 2014 (Monday); 03:40pm - 06:00pm

(LOCATION: Gold Room)

03:40 - 04:00pm: Edge Histogram Descriptor for Finger Vein Recognition

Yu Lu, Sook Yoon, Daegyu Hwang, Dong Sun Park Chonbuk National University, South Korea; Mokpo National University, South Korea

04:00 - 04:20pm: Finger Vein Recognition in Row and Column Directions Using

Two Dimensional Kernel Principal Component Analysis Sepehr Damavandinejadmonfared, Vijay Varadharajan

Information and Networked Systems Security Research Group (INSS), Department of Computing, Macquarie University, Sydney, Australia

04:20 - 04:40pm: Lucas-Kanade Scale Invariant Feature Transform for Uncontrolled

Viewpoint Face Recognition Yongbin Gao, Hyo Jong Lee

Chonbuk National University, Jeonju, South Korea

04:40 - 05:00pm: Effective Kernel Mapping for One-Dimensional Principal Component

Analysis in Finger Vein Recognition

Sepehr Damavandinejadmonfared, Vijay Varadharajan

Macquarie University, Sydney, Australia

05:00 - 05:20pm: A Facial Expression Recognition System from Depth Video

Md. Zia Uddin, A. M. Jehad Sarkar

Sungkyunkwan University, Seoul, South Korea;

Hankuk University of Foreign Studies, Yongin, South Korea

05:20 - 05:40pm: Performance Analysis of Face Detection Algorithms for Efficient

Comparison of Prediction Time and Accuracy

Seunghi Cha, Jong Wook Kwak, Byoungchul Ahn, Wookhyun Kim

Yeungnam University, South Korea

05:40 - 06:00pm: A Novel SVM Based Pedestrian Detection Algorithm via Locality

Sensitive Histograms

Zhihui Wang, Sook Yoon, Changpyo Hong, Dong Sun Park

Chonbuk National University, South Korea; Mokpo National University, South Korea

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 3-IPCV: VISION, PATTERN MATCHING, NOISE REDUCTION & APPLICATIONS

XXX Chair: Iulia Stirb; "Politehnica" University of Timisoara, Romania

July 22, 2014 (Tuesday); 08:00am - 10:20am

(LOCATION: Gold Room)

08:00 - 08:20am: SEM Surface Reconstruction Using Optical Flow and

Stereo Vision

J. C. Henao, J. Meunier, J. B. Gomez-Mendoza, S. Roy,

and J. C. Riano-Rojas

Universidad Nacional de Colombia, Colombia;

Universite de Montreal, Canada

08:20 - 08:40am: Reliability Measure of 2D-PAGE Spot Matching Using

Multiple Graphs

Dae-Seong Jeoune, Chan-Myeong Han, Yun-Kyoo Ryoo,

Wookhyun Kim, Young-Woo Yoon

Daegu Future College; M+VISION Co. Ltd.; Daegu Health College; Yeungnam Univ., Republic of Korea, South Korea

08:40 - 09:00am: Distortion Center Estimation Technique Using the

FOV Model and 2D Patterns

Dae Hyuck Park, Jeong Goo Seo, Haijung Choi, Eui Sun Kang

SANE CO., Ltd., Seoul, South Korea

09:00 - 09:20am: Automatic Segmentation of Coronal Mass Ejections from

STEREO White-light Coronagraph Images

Vladimir Kirnosov, Lin-Ching Chang, Antti Pulkkinen

The Catholic University of America, Washington, D.C., USA; NASA Goddard Space Flight Center, Greenbelt, Maryland, USA

09:20 - 09:40am: Automated Area Defect Inspection Of Touch Panels Using

Computer Vision

Hong-Dar Lin, Jen-Miao Li

Chaoyang University of Technology, Taichung, Taiwan, R.O.C.

Denoising Camera Data: Shape-adaptive Noise Reduction for 09:40 - 10:00am:

Color Filter Array Image Data

Tamara Seybold, Bernd Klassner, Walter Stechele

Arnold & Richter Cine Technik, Turkenstrasse, Munchen, Germany; Technische Universitat Munchen, Arcisstrasse,

Munchen, Germany

10:00 - 10:20am: DT-Binarize: A Hybrid Binarization Method Using Decision

Tree for Protein Crystallization Images

Imren Dinc, Semih Dinc, Madhav Sigdel, Madhu S. Sigdel, Marc L. Pusey, Ramazan S. Aygun

University of Alabama in Huntsville, Alabama, USA;

iXpressGenes Inc., Huntsville, Alabama, USA

10:20 - 10:40am: **BREAK**

SESSION 4-IPCV: IMAGING SCIENCE AND MEDICAL APPLICATIONS

XXX Chair: Prof. Kyota Aoki; Utsunomiya University, Japan

July 22, 2014 (Tuesday); 10:40am - 12:20pm

(LOCATION: Gold Room)

Estimation of Resected Liver Regions Using a Tumor 10:40 - 11:00am:

Domination Ratio

Masanori Hariyama, Moe Okada, Mitsugi Shimoda, Keiichi Kubota

Tohoku University, Japan;

Second Department of Surgery, Dokkyo Medical University, Japan

11:00 - 11:20am: Sickle Anemia and Distorted Blood Cells Detection Using Hough

Transform Based on Neural Network and Decision Tree

Hany A. Elsalamony

Helwan University, Cairo, Egypt

11:20 - 11:40am: Rebuilding IVUS Images From Raw Data Of The RF Signal

Exported by IVUS Equipment

Marco Aurelio Granero, Eduardo Tavares Costa, and

Marco Antonio Gutierrez

Departament of Biomedical Engineering DEB/FEEC/UNICAMP, Brazil; Division of Informatics/Heart Institute HCFMUSP, Sao Paulo, Brazil; Federal Institute of Education, Science and Technology

S. Paulo IFSP, Sao Paulo, Brazil

11:40 - 12:00pm: Image Segmentation Techniques Applied to Point Clouds of Dental

Models with an Improvement in Semi-Automatic Teeth Segmentation

Juan David Tamayo Quintero, Sebastian Arboleda Duque,

and Juan Bernardo Gomez Mendoza

Universidad Nacional de Colombia, Colombia

12:00 - 12:20pm: Correction of Intensity Nonuniformity in Mammographic Images

S. Yazdani, R. Yusof, A. Karimian, A. Hematian

University Technologi Malaysia, Kuala lumpur, Malaysia;

University of Isfahan, Isfahan, Iran;

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 5-IPCV: IMAGE AND SIGNAL PROCESSING APPLICATIONS & NOVEL ALGORITHMS

XXX Chair: Prof. Paul Marjoram; University of Southern California, USA

July 22, 2014 (Tuesday); 01:20pm - 03:00pm

(LOCATION: Gold Room)

01:20 - 01:40pm: Active Surveillance in Public Environments

Timothy Sweet, Mircea Nicolescu

University of Nevada, Reno, Nevada, USA

01:40 - 02:00pm: Decision-Level Fusion of Multi-modal Data Using Manifolds

Yassine Belkhouche, Bill Buckles

University of Arkansas at Little Rock, Arkansas, USA;

University of North Texas, Texas, USA

02:00 - 02:20pm: Applying a Lightweight Chinese Lexical Chain Processing in

Web Image Annotation

Chuen-Min Huang

National Yunlin University of Science & Technology, Taiwan, R.O.C.

02:20 - 02:40pm: Distances and Kernels Based on Cumulative Distribution Functions

Hongjun Su, Hong Zhang

Armstrong Atlantic State University, Savannah, Georgia, USA

02:40 - 03:00pm: Spot Matching Method for the Landmark Matched Pairs Using the

Second Neighbor Spots in 2-DE

Chan-Myeong Han, Dae-Sung Jeoune, Sung-Woo Han, Wookhyun Kim,

and Young-Woo Yoon

M+VISION Co. Ltd.; Daegu Future College; Taegu Science

University; Yeungnam Univsersity, Republic of Korea, South Korea

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-IPCV

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Comparison Between the Optimization Techniques of the Image Filters Used to Improve Optical Character Recognition Iulia Stirb

"Politehnica" University of Timioara, Romania

- O. Adaptive Fruit and Vegetable Products Recognition Based on Multi-feature Fusion
 Tao Huawei, Zou Cairong, Zhao Li
 Southeast University, P. R. China
- O. Local Block-Difference Pattern for Use in Gait-based Gender Classification Yen-Chi Wang, Chiao-Wen Kao, Ying-Nong Chen, Kuo-Chin Fan National Central University, Taiwan, R.O.C.
- O. Increasing the Capacity of Color Print Codes for Robust Communication Over Inkjet Print-scan Channels Joceli Mayer

Federal University of Santa Catarina - Florianopolis, Brazil

- O. A Bluetooth Based Mobile SW Platform Application: Smart Finder Jaejoon Kim, Hong-Mok Choi Daegu University, Korea
- O. Video Based Abnormal Behavior Analysis System for Surveillance Jong-Gook Ko
 Electronics and Telecommunications Research Institute (ETRI),
 South Korea
- O. Nonconvex Half-Quadratic Image Reconstruction With Wavelet-Domain Sparsity Constraints
 Marc C. Robini, Yuemin Zhu
 CREATIS, INSA Lyon, Villeurbanne, France

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03:40 - 04:20pm: INVITED LECTURE:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES (Please see the lists at the begining of this book for details)

SESSION 6-IPCV: PATTERN RECOGNITION, IMAGE RETRIEVAL METHODS, IMAGE FEATURE

EXTRACTION & FEATURE MAPPING, IMAGE SEGMENTATION

Chairs: TBA

July 23, 2014 (Wednesday); 08:00am - 11:20am

(LOCATION: Gold Room)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: XXX Investigation of Using the Local Directional Pattern for

Stereo Corresponding Problem

Fadl Dahan, Khalid Al-Mutib, Mansour Alsulaiman, Ramdane Hedjar,

Mohammed Faisal

King Saud University, Al-Riyadh, Saudi Arabia

08:40 - 09:00am: Liver Extraction from CT Images Based on Liver Structure Models

Masanori Hariyama, Riichi Tanizawa, Mitsugi Shimoda,

Keiichi Kubota, Yasuhiro Kobayashi

Tohoku University; Second Department of Surgery, Dokkyo Medical

University; Oyama National College of Technology, Japan

09:00 - 09:20am: Genetic Algorithm-Based Image Feature Matching with a

Fundamental Matrix

Jaeyoung Kim, Myeongsu Kang, Heesung Jun, Jong-Myon Kim

Unviersity of Ulsan, Ulsan, South Korea

09:20 - 09:40am: Ratios of Eigenvalues for the Dirichlet Laplacian and Hu's Moments

Mohamed A. Khabou, Mohamed B. H. Rhouma

University of West Florida, Pensacola, Florida, USA;

Qatar University, Doha, Qatar

09:40 - 10:00am: Classification of Protein Crystallization Trial Images Using

Geometric Features

Madhav Sigdel, Madhu S. Sigdel, Imren Dinc, Semih Dinc,

Marc L. Pusey, Ramazan S. Aygun

University of Alabama in Huntsville Alabama, USA; iXpressGenes, Inc., Huntsville, Alabama, USA

10:00 - 10:20am: A Content Based Image Retrieval Approach Based on Document Queries

Ilie Mihai Bogdan

"Dunarea de Jos" University of Galati, Romania

10:20 - 10:40am: BREAK

10:40 - 11:00am: Enhanced Spatial Fuzzy C-Means Algorithm for Medical Image

Segmentation

Myeongsu Kang, Jaeyoung Kim, Cheol-Hong Kim, Jong-Myon Kim

University of Ulsan, Ulsan, South Korea;

Chonnam National University, Gwangji, South Korea

11:00 - 11:20am: Stereo Image Coding Scheme Based Upon Pattern Recognition

Li Hongsong, Li Da

Institute of Integrated Circuits & Micro-Nano Devices,

GUET, P. R. China

SESSION 7-IPCV: IMAGE ENHANCEMENT METHODS, NOISE REDUCTION ALGORITHMS,

IMAGE QUALITY ASSESSMENT AND RELATED TECHNOLOGIES

XXX Co-Chairs: Dr. Hany A. Elsalamony; Helwan University, Cairo, Egypt

Prof. Yuriy V. Shkvarko, CINVESTAV-Guadalajara, Mexico

July 23, 2014 (Wednesday); 11:20am - 02:20pm

(LOCATION: Gold Room)

11:20 - 11:40am: Removal of Circular Edge Noise of Retinal Fundus Images

A. Ektesabi, A. Kapoor

Swinburne University of Technology, Australia

11:40 - 12:00pm: A New Approach for Removing Haze from Images

Vinuchackravarthy Senthamilarasu, Anusha Baskaran, and

Krishnan Kutty

Centre for Research in Engineering Sciences and Technology

(CREST), KPIT Technologies Ltd., Pune, India

12:00 - 12:20pm: Effect of AWGN Parameters Estimation on Accurate

Denoising Process

Huda Al-Ghaib, Reza Adhami

University of Alabama in Huntsville, Alabama, USA

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: XSET: Image Coder Based on Contrast Band-Pass Filtering

Jaime Moreno, Oswaldo Morales, Ricardo Tejeida National Polytechnic Institute of Mexico, Mexico;

University of Poitiers, Poitiers, France

01:40 - 02:00pm: pSQ: Image Quantizer Based on Contrast Band-Pass Filtering

Jaime Moreno, Oswaldo Morales, Ricardo Tejeida National Polytechnic Institute of Mexico; University of Poitiers, Poitiers, France

02:00 - 02:20pm: Feature Enhancement of Robust Adaptive Target Detection

with the Y-configured Multisensor Imaging Radar

V. E. Espadas, Y. V. Shkvarko

CINVESTAV Unidad Guadalajara, Jalisco, Mexico

SESSION 8-IPCV: STEREO, 3D IMAGING, DEPTH ALGORITHMS, VIDEO PROCESSING,

ANALYSIS AND APPLICATIONS

Chairs: TBA

July 23, 2014 (Wednesday); 02:20pm - 05:40pm

(LOCATION: Gold Room)

02:20 - 02:40pm: Depth Estimation of a Monocular Image from Image Blur

Zhonghai Deng, Jingyuan Zhang University of Alabama, Alabama, USA

02:40 - 03:00pm: Optimum Image Quality Assessment for 3D Perception of

Stereoscopic Image Generated from Upsampled Depth Map

Saeed Mahmoudpour, Manbae Kim

Kangwon National University, Republic of Korea

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-IPCV

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Ultrasound Fault Detection of Power Cables Based on

Morphological Operations in the Bispectrum

Gabriel Thomas, Arezoo Emadi, Douglas A. Buchanan

University of Manitoba, Canada

- O. Mobile Visual Search Applications
 Sung-Kwan Je, Seungjae Lee, Weon-Geun Oh
 Electronics and Telecommunications Research Institute
 (ETRI), South Korea
- O. CMOS Image Sensor With Reduced Power Consumption Based on Block Operation Jeongyeob Kim, Myunghan Bae, Sung-Hyun Jo, Byoung-Soo Choi, Jang-Kyoo Shin Kyungpook National University, Daegu, Korea
- O. Embedded Wavelet-based Face Recognition Under Variable Position
 Pascal Cotret. Stephane Chevobbe. Mehdi Darouich

Pascal Cotret, Stephane Chevobbe, Mehdi Darouich CEA, LIST, Lab. Calcul Embarque, Gif-sur-Yvette, France

O. Digital Image Processing in Surface Engineering Quality Control E. Sheybani, S. Garcia, G. Javidi Virginia State University, Virginia, USA

SESSION 8-IPCV: Continued ... STEREO, 3D IMAGING, DEPTH ALGORITHMS,

VIDEO PROCESSING, ANALYSIS AND APPLICATIONS

(LOCATION: Gold Room)

03:40 - 04:00pm: A Hole-Filling Approach Based on Morphological Operation for

Stereoscopic Image Generation

Chyuan-Huei Thomas Yang, Yen-Ting Hsu, Wen-Chieh, Chou Hsuan Chuang University, Hsin Chu, Taiwan, R.O.C.

04:00 - 04:20pm: Invariant Feature Extraction Using 3D Silhouette Modeling

Jaehwan Lee, Sook Yoon, Dong Sun Park Chonbuk National University, Korea; Mokpo National University, Korea

04:20 - 04:40pm: Trajectory Scoring Using JAABA in a Noisy System

H. Chen, B. Foley, P. Marjoram

Department of Preventive Medicine, University of Southern

California, Los Angeles, California, USA

04:40 - 05:00pm: Gesture Recognition in Cooking Video Based on Image Features

and Motion Features Using Bayesian Network Classifier

Nguyen Tuan Hung, Nguyen Thanh Binh, Pham The Bao, Jin Young Kim Ho Chi Minh City, Vietnam; University of Science, Ho Chi Minh City, Vietnam; Chonnam National University, Gwangju, Korea

05:00 - 05:20pm: Improving Performance Using Both of Correlation and Absolute

Difference on Similar Play Estimation

Kyota Aoki, Ryo Aita

Graduate school of Engineering, Utsunomiya University, Japan

05:20 - 05:40pm: Subjective Video Streaming Quality Evaluation in 3G Mobile

Cellular Networks

Fahad Al Qurashi, Hamad Almohamedh, Ivica Kostanic Florida Institute of Technology, Melbourne, Florida, USA

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES (Please see the lists at the begining of this book for details)

SESSION 9-IPCV: IMAGE & SIGNAL PROCESSING APPLICATIONS & NOVEL ALGORITHMS

XXX Chair: Daniel S. Rosen; GumGum, Inc., USA July 24, 2014 (Thursday); 08:00am - 10:00am

(LOCATION: Gold Room)

08:00 - 08:20am: A Heterogeneous Fuzzy Clustering Approach for Reliable

Audio Genre Classification

Junsang Seo, Myeongsu Kang, Cheol-Hong Kim, and

Jong-Myon Kim

University of Ulsan, South Korea;

Chonnam National University, South Korea

08:20 - 08:40am: An Affine Shape Constraint For Geometric Active Contours

Mohamed Amine Mezghich, Mawaheb Saidani, Slim M'Hiri,

and Faouzi Ghorbel

GRIFT Research Group, CRISTAL Laboratory, Ecole Nationale des Sciences de l'Informatique, ENSI, Manouba, Tunisia

08:40 - 09:00am: Segmentation of Ancient Documents in Support of Electronic

File Management

Ederson Marcos Sgarbi, Daniela De Freitas Guilhermino Trindade,

Wellington Aparecido Della Mura, Jacques Facon

UENP - Universidade Estadual do Norte do Parana - Centro de Ciencias Tecnologicas, Brazil; PUCPR - Pontifcia Universidade

Catolica do Parana - PPGIA, Brazil

09:00 - 09:20am: Object Pose Dataset Using Discriminatively Trained

Deformable Part Models

Jinho Kim, Yu Xiang, Silvio Savarese

Korea Advanced Institute of Science and Technology, Korea;

University of Michigan, Ann Arbor, Michigan, USA; Stanford University, Stanford, California, USA

09:20 - 09:40am: HDR Image Appearance Mapping Using Dual Exposed LDR Images

Hyuk-Ju Kwon, Sung-Hak Lee, Geun-Young Lee, Kyu-Ik Sohng

Kyungpook National University, Korea

09:40 - 10:00am: Background Invariant Detection of Graphite Responses in

OMR Documents

Raghuveer Kanneganti, Randy Fry, Ahmed Fadhil, Lalit Gupta Southern Illinois University, Carbondale, Illinois, USA

10:00 - 10:20am: BREAK

SESSION 10-IPCV: OBJECT DETECTION, RECOGNITION, AND CLASSIFICATION + OCR,

AND RELATED ISSUES + COMPRESSION METHODS & TECHNOLOGIES

Chairs: TBA

July 24, 2014 (Thursday); 10:20am - 12:40pm

(LOCATION: Gold Room)

10:20 - 10:40am: Object Detection And Matching Using Proposed Signature And Surf

Hany A. Elsalamony

Helwan University, Cairo, Egypt;

Salman Bin Abdul Aziz University, Saudi Arabia

10:40 - 11:00am: A Statistical Measuring System for Rainbow Trout

Marcelo Romero, Jose Manuel Miranda

Facultad de Ingenieria, Univ. Autonoma del Estado de Mexico, Mexico

11:00 - 11:20am: Highlight Image Filter Produces Outstanding Results in Optical

Character Recognition Processing

Iulia Stirb

"Politehnica" University of Timisoara, Romania

11:20 - 11:40am: Object Tracking Using SIFT and Kalman Filter

Seok-Wun Ha, Yong-Ho Moon

Gyeongsang National University, Gazwa-dong, Jinju, Korea

11:40 - 12:00pm: Segmented Compression of Head Shot Photographs

Suhair Amer, Joshua Leonard

Southeast Missouri State University, Missouri, USA

12:00 - 12:20pm: Symmetrical Compression of Facial Photographs

Suhair Amer, Joshua Leonard

Southeast Missouri State University, Missouri, USA

12:20 - 12:40pm: Image Compression of Colored Facial Photographs: Segmentation

and Symmetry-Combined

Suhair Amer, Joshua Leonard

Southeast Missouri State University, Missouri, USA

12:40 - 01:20pm: LUNCH (On Your Own)

SESSION 11-IPCV: LATE BREAKING + POSITION PAPERS:

IMAGE PROCESSING, COMPUTER VISION, & PATTERN RECOGNITION

Chairs: TBA

July 24, 2014 (Thursday); 01:20pm - 06:00pm

(LOCATION: Gold Room)

NOTE: We anticipate a number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be moved up in order to close time gaps

in the session.

01:20 - 01:40pm: Book Spread Correction Using a Time of Flight Imaging Sensor

Luis Galarza, Zhenzhong Wang, Malek Adjouadi

Florida International University, Miami, Florida, USA

01:40 - 02:00pm: Solving Optimization Problems Which Employ Structural

Similarity As Fidelity Measure Daniel Otero, Edward R. Vrscay

University of Waterloo, Ontario, Waterloo, Canada

02:00 - 02:20pm: Optical Pedometer: A New Method for Distance Measuring Using

Camera Phones

Joakim Sjoberg, Mia Persson

Department of Computer Science, Malmo University, Sweden

02:20 - 02:40pm: On Sparse Representation and Visual Tracking

Jingya Wang, Shahram Payandeh

Simon Fraser University, BC, Canada

02:40 - 03:00pm: XXX FREE SLOT

03:00 - 03:20pm:	Adaptive Trilateral Filter For In-Loop Filtering Akitha Kesireddy, Mohamed El-Sharkawy Purdue School of Engineering and Technology, USA
03:20 - 03:40pm:	Low Level Processing for Digital Images Indiara Barbosa Vale, Gessica Thaianne R. G. Marchiori, Dalton Matsuo Tavares, Tercio Alberto Dos Santos Filho, Ivan Da Silva Sendin, Marcos Aurelio Batista Federal University of Goias - UFG, Goias, Brazil
03:40 - 04:00pm:	Image Retrieval: Importance and Applications Joao Augusto Da Silva Junior, Rodiney Elias Marcal, Antonio Carlos De Oliveira Junior, Tercio Alberto Dos Santos Filho, Sergio Francisco Da Silva, Marcos Aurelio Batista Federal University of Goias - UFG, Goias, Brazil
04:00 - 04:20pm:	A 3-D Auto-Stereoscopic Integral Images Generating Tool Shafik Salih, Amar Aggoun, Maysam Abbod Brunel University, Uxbridge, West London, UK
04:20 - 04:40pm:	Fast Detection and Segmentation Of Mitochondria in Electronic Microscopy Images Using Texture and Shape Zhiming Qian, Meiling Shi Chuxiong Normal University; Qujing Normal University, China
04:40 - 05:00pm:	Multi-view Vehicle Detection Using Two-view Features Zhiming Qian, Meiling Shi Chuxiong Normal University; Qujing Normal University, China
05:00 - 05:20pm:	Symmetry Detection Based on Phase Information Zhitao Xiao, Lei Geng, Fang Zhang, Jun Wu Tianjin Polytechnic University, Tianjin, P. R. China
05:20 - 05:40pm:	XXX FREE SLOT
05:40 - 06:00pm:	Optical Illumination Watermarking Using Db Wavelet Parvinder Singh, Meenakshi Chhikara Deenbandhu Chhotu Ram University of Science & Technology, Haryana, India

PDPTA'14 CONFERENCE SCHEDULE

The 2014 International Conference on Parallel and Distributed Processing Techniques and Applications

There are a number of other sessions (not listed as part of PDPTA'14 in this schedule) that are of potential interest to PDPTA'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in ABDA'14, ICOMP'14, SAM'14, BIOCOMP'14, CSC'14, GCA'14, ESA'14, and SWWS'14 conferences discuss topics that are within the scope of PDPTA'14; these have been scheduled so that selected PDPTA'14 groups/attendees can also participate in them. In addition, because of topical overlap between PDPTA'14 and tracks of RSA'14 "Reconfigurable Systems and Algorithms", they have been merged into one comprehensive schedule. It is hoped that this would encourage the participants of the RSA'14 track explore cross-fertilization of ideas with participants of PDPTA'14.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force

on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 12:20p: LUNCH (On Your Own)

SESSION 1-PDPTA: WORKSHOP: MATHEMATICAL MODELING AND PROBLEM SOLVING, MPS

Chairs: Prof. Minoru Ito, Nara Institute of Science & Technology, Japan

July 21, 2014 (Monday); 12:20pm - 06:00pm

(LOCATION: Ballroom 5)

12:20 - 12:40pm: Acceleration of Poisson Corrupted Image Restoration with Loopy

Belief Propagation Hayaru Shouno

University of Electro Communications, Tokyo, Japan

12:40 - 01:00pm: Singularity Size Optimization in Data Deduplication Technique

2.40 OI. Jugara Nie Orivera Michael Takara Tambiga Kasara Tambiga Takara

Mie Ogiwara, Mizuki Takaya, Teruhisa Kasuya, Itaru Koike, Toshiyuki

Kinoshita

School of Computer Science, Tokyo University of Technology, Tokyo, Japan

01:00 - 01:20pm: Improvement of a Confomational Search on Protein-ligand Docking Based

on Optimal Arrangement of Multiple Small Search Grids

Tomohiro Ban, Takashi Ishida, Yutaka Akiyama Tokyo Institute of Technology, Tokyo, Japan 01:20 - 01:40pm: Validation of EEG Personal Authentication with Multi-channels and

Multi-tasks

Yu Ishikawa, Chinami Yoshida, Masami Takata, Kazuki Joe Nara Women's University, Kitauoya-Nishi, Nara, Japan

01:40 - 02:00pm: Emotion Estimation of Comments on Web News by SVM and Naive Bayes

Based Classifier

Yasuhiro Tajima, Genichiro Kikui

Okayama Prefectural University, Okayama, Japan

Grobner Basis of Non-Negative Matrix Factorization and Feature 02:00 - 02:20pm:

Extraction of Cross-Site Scripting Attacks

Takeshi Matsuda

Shizuoka Institute of Science and Technology, Shizuoka, Japan

02:20 - 02:40pm: Accelerating the Numerical Computation of Positive Roots of Polynomials

Using Improved Bounds

Kinji Kimura, Takuto Akiyama, Hiroyuki Ishigami, Masami Takata,

Yoshimasa Nakamura

Kyoto University, Kyoto, Japan; Nara Women's University, Nara, Japan

02:40 - 03:00pm: Scalable 3D Modeling Using Multi-player Interactive Genetic Algorithm

on Cloud Platform as a Service

Takahito Seyama, Shintaro Bando, Masaharu Munetomo

Hokkaido University, Sapporo, Japan

BREAK & POSTER/DISCUSSION SESSION A-PDPTA 03:00 - 03:40pm:

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

Parallel Fuzzy Filter for Impulse Noise Removal Josep Arnal, Maria Sanchez, Luis Sucar, Vicente Vidal Universidad de Alicante, Spain; Instituto Tecnologico Cd. Guzman,

Mexico; Universidad Politecnica de Valencia, Spain

A Novel Method to Minimize Side Effects by Cache Contention on the

Inclusive Multi-Core Shared Cache

Hyo-Joong Suh

The Catholic University of Korea, South Korea

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SESSION 1-PDPTA: Continued: WORKSHOP: MATHEMATICAL MODELING AND PROBLEM SOLVING. MPS

(LOCATION: Ballroom 5)

Selecting Strategies in Particle Swarm Optimization by Sampling-Based 03:40 - 04:00pm:

> Landscape Modality Detection Tetsuyuki Takahama, Setsuko Sakai

Graduate School of Information Sciences, Hiroshima, Japan

A Study on Non-Correspondence in Spread Between Objective Space and 04:00 - 04:20pm:

Design Variable Space in Pareto Solutions

Tomohiro Yoshikawa, Toru Yoshida Nagoya University, Nagoya, Japan

04:20 - 04:40pm: Task Scheduling Algorithm for Multicore Processor Systems with

Turbo Boost and Hyper-Threading

Yosuke Wakisaka, Naoki Shibata, Keiichi Yasumoto, Minoru Ito, and

Junji Kitamichi

Nara Institute of Science and Technology, Ikoma, Nara, Japan

04:40 - 05:00pm: Multiple Precision Integer Multiplication on GPUs

Koji Kitano, Noriyuki Fujimoto

Osaka Prefecture University, Sakai, Osaka, Japan

05:00 - 05:20pm: Combining the Phoenix Flash Code with the Binary Index Flash Code

for Low Write Deficiency

Geonina Noriel Corneby, Lea Karla Sanchez, Proceso Fernandez,

Michael Joseph Tan, Yuichi Kanji

Nara Institute of Schence and Technology, Ikoma, Nara, Japan

05:20 - 05:40pm: A CIL Virtual Machine for Wireless Sensor Network Applications

Yutaka Yanagisawa, Futoshi Naya, Yasue Kishino Hikaridai, Seika-cho, Soraku-gun, Kyoto, Japan

05:40 - 06:00pm: Quantifying Sentiment for the Japanese Economy and Stock Price

Prediction

Hiroshi Ishijima, Takuro Kazumi, Akira Maeda Chuo University, Shinjuku-ku, Tokyo, Japan

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 2-PDPTA: ENERGY EFFICIENT NETWORKING SYSTEMS APPLICABLE TO EMERGENCY

Chair: Prof. Hiroaki Nishikawa, University of Tsukuba, Japan Co-Chair: Prof. Hiroshi Ishii, Tokai University, Tokyo, Japan

July 22, 2014 (Tuesday); 08:00am - 11:40am

(LOCATION: Ballroom 5)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: XXX A Novel Information Sharing Architecture Constructed by Broadcast

Based Information Sharing System (BBISS)

Keisuke Utsu, Chee Onn Chow, Hiroaki Nishikawa, Hiroshi Ishii

Tokai University, Tokyo, Japan

08:40 - 09:00am: XXX An Optimization Study on Broadcast Based Information Sharing

System (BBISS)

Sayuri Wada, Hiroshi Ishii, Hiroaki Nishikawa, Keisuke Utsu

Tokai University, Tokyo, Japan

09:00 - 09:20am: XXX A Safety Information Sharing Application on BBISS

Tomomi Itoh, Ayami Manaka, Yuuka Sugawara, Hiroshi Ishii,

Hiroaki Nishikawa, Keisuke Utsu Tokai University, Tokyo, Japan

09:20 - 09:40am: XXX Location Data Supplementing Information Transfer Method over MANET

Kei Kobayashi, Yosuke Totani, Hiroshi Sano, Keisuke Utsu, and

Hiroshi Ishii

Tokai University, Tokyo, Japan

09:40 - 10:00am: XXX A Proposal on Location-aided Route Discovery Based on Two-hop

Neighbor Information Over Ad Hoc Network and its Preliminary Evaluation

Phonepadith Phounmmavong, Keisuke Utsu, Hiroshi Ishii

Tokai University, Tokyo, Japan

10:00 - 10:20am: XXX A Proposal on Efficient Broadcast Based Information Transfer Method

Using Location Data over MANET

Yosuke Totani, Keisuke Utsu, Hiroshi Ishii

Tokai University, Tokyo, Japan

10:20 - 10:40am: BREAK

10:40 - 11:00am: XXX Energy Efficient Data-Driven Networking Processor with Autonomous

Load Distribution Capability

Shuji Sannomiya, Hiroaki Nishikawa

University of Tsukuba, Tsukuba Science City, Ibaraki, Japan

11:00 - 11:20am: XXX Spatial Parallelization of Self-Timed FFT Circuit

Norifumi Uno, Ryuichi Taguchi, Makoto Iwata Kochi University of Technology, Kochi, Japan

11:20 - 11:40am: XXX DL Timing-Error Detection and Recovery Circuit for Self-Timed Pipeline

Syohei Okamune, Kei Miyagi, Makoto Iwata Kochi University of Technology, Kochi, Japan SESSION 3-PDPTA: PARALLEL COMPUTING AND ALGORITHMS + MULTI-CORE AND ENERGY-AWARE

COMPUTING + EMBEDDED SYSTEMS + NOC

XXX Chair: Dr. Abu Asaduzzaman, Wichita State University, Kansas, USA

July 22, 2014 (Tuesday); 11:40am - 02:00pm

(LOCATION: Ballroom 5)

11:40 - 12:00pm: Modeling the Effects on Power and Performance from Memory Interference

of Co-located Applications in Multicore Systems

Daniel Dauwe, Ryan Friese, Sudeep Pasricha, Anthony A. Maciejewski,

Gregory A. Koenig, Howard Jay Siegel

Colorado State University, Fort Collins, Colorado, USA; Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA;

The National Science Foundation, USA

12:00 - 12:20pm: Processing NOAA Observation Data Over Hybrid Computer Systems for

Comparative Climate Change Analysis

Xuan Shi, Dali Wang

University of Arkansas, Fayetteville, Arkansas, USA; Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA

12:20 - 01:20pm: LUNCH (On Your Own)

01:20 - 01:40pm: High Efficiency Video Decoding on Multicore Processor

Hyeonggeon Lee, Jong Kang Park, Jong Tae Kim

Sungkyunkwan University, South Korea

01:40 - 02:00pm: Design of an In-Memory Database Engine Using Intel Xeon Phi

Coprocessors Michael Scherger

Texas Christian University, Forth Worth, Texas, USA

SESSION 4-PDPTA: PARALLEL PROGRAMMING + NOVEL FRAMEWORKS + ARCHITECTURES + SYSTEMS

Chair: TBA

July 22, 2014 (Tuesday); 02:00pm - 03:00pm

(LOCATION: Ballroom 5)

02:00 - 02:20pm: Wait-less Parallel (MPI) Programming: A Disciplined Approach

Ralph Butler, Chrisila Pettey, Nathan Reale

Middle Tennessee State University, Murfreesboro, Tennessee, USA

02:20 - 02:40pm: Hybrid CPU-GPU Pipeline Framework

Fahad Khalid, Frank Feinbube, Andreas Polze

Hasso Plattner Institute for Software Systems Engineering, Germany

02:40 - 03:00pm: Implementing MPI Barrier with the NetFPGA

Omer Arap, Geoffrey Brown, Bryce Himebaugh, Martin Swany

Indiana University, Bloomington, Indiana, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-PDPTA

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Study of Thermal-noise-assisted Signal Propagation of

Neuromorphic Single-electron Circuit

Ryo Hirashima, Tetsuya Asai, Takahide Oya

Yokohama National University, Japan; Hokkaido University, Japan

O. Hierarchical Parallelization of HEVC Encoder for UHD Video

Bumho Kim

Electronics and Telecommunications Research Institute (ETRI),

South Korea

- O. XXX Computation of Control Related States of Top Left K-net System of Petri Nets
 Daniel Yuh Chao, Tsung Hsien Yu, Ding Chun Huang
 National Cheng Chi University, Taipei, Taiwan, R.O.C.
- O. XXX Low-power Task Scheduling in Homogeneous Quad-core Processor Gyuhan Kim, Myungha Kim, Hyeonggeon Lee, Jong Kang Park, Jong Tae Kim Sungkyunkwan University, South Korea
- O. XXX High Performance Embedded Software Design for Protective Relay Algorithm in Digital Signal Processors Heung Sun Yoon, Myungha Kim, Jong Kang Park, Jong Tae Kim Sungkyunkwan University, South Korea

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03:40 - 04:20pm: INVITED LECTURE:

A PRIMITIVE ARTIFICIAL PREFRONTAL CORTEX FOR COGNITIVE SELF-

REGULATION IN ARTIFICIAL LIFE FORMS

Dr. James A. Crowder

Chief Engineer, Raytheon Intelligence, Information, and Services Aurora, Colorado, USA; Chief Mentor/Scientist of the Automation, Robotics and Artificial Intelligence Research Lab., Alexandria

School of Innovation, Douglas County, Colorado, USA

(LOCATION: Ballroom 4)

04:20 - 06:00pm: PANEL DISCUSSION:

THOUGHTS, LANGUAGE, AND MEMORIES FOR HUMANS vs. ARTIFICIALLY

INTELLIGENT ENTITIES

PANEL CHAIR: Dr. James A. Crowder; Chief Engineer, Raytheon

Intelligence, Information and Services, USA

PANELISTS:

Prof. Victor Raskin; Distinguished Professor, English & Linguistics Professor, Computer Science (courtesy); Professor, Computer and Information Technology (courtesy); Associate Director & Charter

Fellow, CERIAS; Purdue University, USA;

Dr. Julia M. Taylor; Computer & Information Technology; Fellow,

CERIAS; Purdue University, USA;

Shelli Friess; Cognitive Psychologist, Relevant Counseling, USA; Dr. John Carbone; Engineering Fellow, Raytheon Intelligence,

Information and Services, Aurora, Colorado, USA

(LOCATION: Ballroom 4)

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 5-PDPTA: BIG DATA AND DATA ANALYTICS + RELATED TECHNOLOGIES AND METHODS

XXX + SOCIAL NETWORKS + DATA PARALLELISM + DATABASES

Chair: TBA

XXX July 23, 2014 (Wednesday); 08:00am - 10:40am

(LOCATION: Ballroom 5)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: XXX Impact of Thread Synchronization and Data Parallelism on

Multicore Game Programming

Abu Asaduzzaman, Hin Y. Lee, Deepthi Gummadi Wichita State University, Wichita, Kansas, USA

08:40 - 09:00am: An Adaptive Data Resourcing Model to Relieve the Pain of Searching

from Hybrid Clouds for Big Data Yilang Wu, Junbo Wang, Zixue Cheng

University of Aizu, Aizu-wakamatsu, Japan

09:00 - 09:20am: Resocialization and Uses of Social Networks for Elderly

Cecile Treton, Christian Bourret Paris Est University, Paris France;

DICEN IDF, CNAM UPEM, Paris Ouest University Marne la Vallee, France

09:20 - 09:40am: Hadoop MapReduce Configuration Parameters and System Performance:

a Systematic Review

Ailton S. Bonifacio, Andre Menolli, Fabiano Silva

Federal University of Parana and State University of Londrina, Brazil;

Universidade Estadual do Norte do Parana, Brazil

09:40 - 10:00am: PDTSSE: A Scalable Parallel Decision Tree Algorithm Based on MapReduce

Yan Cui, Yuanyang Yang, Shizhong Liao

Tianjin University, P. R. China

10:00 - 10:20am: Task Allocation and Node Activation for Energy-Proportional

MapReduce Clusters

Min-Ki Kim, Haengrae Cho

Yeungnam University, Gyungsan, Gyungbuk, Republic of Korea

10:20 - 10:40am: XXX Fault-Tolerant Databases: Assessing the Risks and Costs

Berkay Surmeli, Martin Maskarinec, Kathleen Neumann Western Illinois University, Macomb, Illinois, USA

SESSION 6-PDPTA: HIGH-PERFORMANCE COMPUTING + DISTRIBUTED ALGORITHMS & APPLICATIONS

Chair: TBA

July 23, 2014 (Wednesday); 10:40am - 12:20pm

(LOCATION: Ballroom 5)

10:40 - 11:00am: Real-time Token-based Mutual Exclusion Algorithms

Mitchell L. Neilsen

Kansas State University, Manhattan, Kansas, USA

11:00 - 11:20am: Cost-aware Short-term Load Forecasting of Power System

Kai-Chao Yang, Chung-Chieh Huang, Jia-Shung Wang National Tsing-Hua University, Taiwan, R.O.C.

11:20 - 11:40am: Design of an FPGA-Based FDTD Accelerator Using OpenCL

Yasuhiro Takei, Hasitha Muthumala Waidyasooriya, Masanori Hariyama,

and Michitaka Kameyama

Graduate School of Information Sciences, Tohoku University, Japan

11:40 - 12:00pm: A Practical Election Protocol Based on an Unreliable Failure

Detector in Distributed Systems

Sung-Hoon Park, Yong-Hwan Cho, Seon-Hyong Lee

Chungbuk National University, Cheongju, ChungBuk, South Korea

12:00 - 12:20pm: Autonomic Management for Availability and Perfomence In Saas Model

Nadir K. Salih

School of Computer Science and Engineering, Harbin Institute of

Technology, P. R. China

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 7-PDPTA: PARALLEL COMPUTING & ALGORITHMS + MULTI-CORE & ENERGY-AWARE

COMPUTING + EMBEDDED SYSTEMS + NOC

XXX Co-Chairs: Prof. Jong-Myon Kim; University of Ulsan, South Korea;

Prof. Dilip Sarkar; University of Miami, Florida, USA

July 23, 2014 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Ballroom 5)

01:20 - 01:40pm: Accelerating Medical Image Registration Using a SIMD Array

Inkyu Jeong, Myeongsu Kang, Cheol-Hong Kim, Jong-Myon Kim

University of Ulsan, South Korea;

Chonnam National University, South Korea

01:40 - 02:00pm: Scalable Self-Tuning Implementation of Smith-Waterman Algorithm

for Multicore CPUs

Faisal Sikder, Dilip Sarkar University of Miami, Florida, USA

02:00 - 02:20pm: Viability of the Parallel Prefix Algorithm for Sequence Alignment

on Massively Parallel GPUs

Christian Dicker, Samuel Kelly, John Sibandze, Jens Mache

Lewis & Clark College, USA

02:20 - 02:40pm: Discrete Event Hard-Sphere Collisions Using OpenCL

Zachary Langbert, Mark C. Lewis

Trinity University, San Antonio, Texas, USA

02:40 - 03:00pm: Energy Efficient Computation with Large Data Sets

Carsten Maple

University of Bedfordshire, UK

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-PDPTA

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 8-PDPTA: SYSTEMS SOFTWARE + PARALLEL PROGRAMMING MODELS + PETRI NETS

+ CACHE COHERENCE + MULTI-CORE AND APPLICATIONS

XXX Chair: Derek Kern, University of Colorado Denver, Colorado, USA

July 23, 2014 (Wednesday); 03:40pm - 06:00pm

(LOCATION: Ballroom 5)

03:40 - 04:00pm: Automatic Performance Tuning of Pipeline Patterns for

Heterogeneous Parallel Architectures Enes Bajrovic, Siegfried Benkner

Faculty of Computer Science, University of Vienna, Austria

04:00 - 04:20pm: Exploiting Reuse-Frequency with Speculative and Dynamic Updates

in an Enhanced Directory Based Coherence Protocol

Nilufar Ferdous, Byeong Kil Lee, Eugene John

University of Texas at San Antonio, San Antonio, Texas, USA;

Samsung Research, Seoul, South Korea

04:20 - 04:40pm: Miss-rate Based Dynamic Phase Tracking on Multicore Processors

Sourav Dutta, Nazeih Botros

Southern Illinois University Carbondale, Illinois, USA

04:40 - 05:00pm: Petri Net Based Algorithm Modelization and Parallel Execution on

Symmetric Multiprocessors

Gustavo Wolfmann, Armando De Giusti

Facultad de Ciencias Exactas Fisicas y Naturales, Universidad Nacional de Cordoba, Cordoba, Argentina; Facultad de Informatica,

Universidad Nacional de La Plata, La Plata, Argentina

05:00 - 05:20pm: Maximizing Hardware Performance via Non-blocking Collective

Communication for All Pairs Shortest Paths Computation on

Heterogeneous Multi-core Processors Eduardo A. Colmenares, Yu Zhuang

Texas Tech University, Lubbock, Texas, USA

05:20 - 05:40pm: How to Find the Best Rules for CA-based PRNG

Miroslaw Szaban

Institute of Computer Science, Siedlce University, Poland

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 9-PDPTA: PARALLEL COMPUTING AND ALGORITHMS + MULTI-CORE & ENERGY-AWARE

COMPUTING + EMBEDDED SYSTEMS + NOC

XXX Chair: Derek Kern, University of Colorado Denver, Colorado, USA

July 24, 2014 (Thursday); 08:00am - 10:20am

(LOCATION: Ballroom 5)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: FREE SLOT

08:40 - 09:00am: XXX FREE SLOT

09:00 - 09:20am: An SIMD Architecture for Shortest-Path Search and Its FPGA

Implementation

Yasuhiro Takei, Masanori Hariyama, Michitaka Kameyama

Graduate School of Information Sciences, Tohoku University, Japan

09:20 - 09:40am: XXX FREE SLOT

09:40 - 10:00am: System Level Comparative Performance Analysis of H.264 Encoder

by Network-on-Chip Topologies

Suk Ki Lee, Jong Kang Park, Jong Tae Kim Sungkyunkwan University, South Korea

10:00 - 10:20am: Parallel Insertion Merge

Fernando Belmiro Do Couto, Fabio Silva Do Couto

BBDTVM, Brazil;

UFRJ - Universidade Federal do Rio de Janeiro, Brazil

10:20 - 10:40am: BREAK

SESSION 10-PDPTA: (CONCURRENT SESSION WITH SESSION 12-PDPTA)

SCIENTIFIC COMPUTING, FFT, MATRIX PROBLEMS, LINEAR SYSTEMS,

FINITE ELEMENT METHODS

XXX Chair: William Dai; Project Leader, Los Alamos National Laboratory,

Los Alamos, New Mexico, USA

July 24, 2014 (Thursday); 10:40am - 12:20pm

(LOCATION: Ballroom 5)

10:40 - 11:00am: Parallel Processing of Irregular Workloads on the GPGPU:

Adaptive Quadrature

Derek Kern, Gita Alaghband

University of Colorado Denver, Denver, Colorado, USA

11:00 - 11:20am: Embarrassingly Parallel Butterflies Solve Diagonally Dominant

Tridiagonal Toeplitz Systems

Brian J. Murphy

Lehman College, The City University of New York, Bronx, New York, USA

11:20 - 11:40am: Resiliency in IO Tools for Scientific Computing

William W. Dai

Los Alamos National Laboratory, Los Alamos, New Mexico, USA

11:40 - 12:00pm: Parallelizing Matrix Exponential Based Solver on Shared Memory

Systems Using Cilk

Abdul Jabbar Saeed Tipu, Ammar Hasan, Mohsan Jameel, Aamir Shafi National University of Sciences and Technology, Islamabad, Pakistan 12:00 - 12:20pm: Analyzing The Effect of Contextual Information in Noise Based

Classifier on Satellite Images

Rakesh Dwivedia, S. K. Ghosha, Anil Kumarb Indian Institute of Technology, Roorkee, India; Indian Institute of Remote Sensing, Dehradun, India

12:20 - 01:00pm: LUNCH (On Your Own)

SESSION 11-PDPTA: (CONCURRENT SESSION WITH SESSIONS 12-PDPTA AND 13-PDPTA)

COMPLEX SYSTEMS, THEORY AND APPLICATIONS + PARALLEL PROGRAMMING AND NOVEL FRAMEWORKS + PARALLEL ARCHITECTURES AND SYSTEMS

Chair: TBA

July 24, 2014 (Thursday); 01:00pm - 06:00pm

(LOCATION: Ballroom 5)

01:00 - 01:20pm: Traffic Regime and 1/f Noise for a Specific Approach to a City

R. Thieberger

Department of Physics, Ben Gurion University, Beer Sheva, Israel

01:20 - 01:40pm: Synthetic Earthquakes Obtained with Two Cellular Automata Models

and Comparison with Real Seismicity

Alejandro Munoz Diosdado

Unidad Professional Interdisciplinaria de Biotecnologia,

National Polytechnic Institute. Mexico

01:40 - 02:00pm: Parallelization of an Iterative Method for Solving Large and Sparse

Linear Systems Using the CUDA-Matlab Integration

Lauro Cassio Martins De Paula, Anderson Da Silva Soares

Federal University of Goias, Brazil

02:00 - 02:20pm: Cellular Automata as Acceleration Kernel of Interconnection

Network Simulation

Takashi Yokota, Kanemitsu Ootsu, Takeshi Ohkawa

Utsunomiya University, Japan

02:20 - 02:40pm: A Memory-Efficient Algorithm for Large-Scale Symmetric Tridiagonal

Eigenvalue Problem on Multi-GPU Systems

Hyunsu Cho, Peter A. Yoon

Trinity College, Hartford, CT, USA

02:40 - 03:00pm: XXX FREE SLOT

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Efficient Anonymization of the SocioNet with the Aid of Rumor Riding

Hiroki Iizuka, Satoshi Fujita Hiroshima University, Japan

03:40 - 04:00pm: Parallelization of an Analytical Method for the Evaluation of

Voltage Sags in Electric Power Systems

Armando Antunez-Garcia, Antonio Ramos-Paz, Elisa Espinosa-Juarez,

and Carlos Ceja-Espinosa

Faculty of Electrical Engineering, Universidad Michoacana de

San Nicolas de Hidalgo, Morelia, Mexico

04:00 - 04:20pm: The Solution of a FEM Equation in Frequency Domain Using a

Parallel Computing with CUBLAS

Raul Dominguez, Aurelio Medina, Antonio Ramos-Paz

Facultad de Ingenieria Electrica, Division de Estudios de Posgrado,

U.M.S.N.H., Ciudad Universitaria, Michoacan, Mexico

04:20 - 04:40pm: Multi-Gbps Fano Decoding Algorithm on GPGPU Ozgur Ates, Selcuk Keskin, Taskin Kocak Bahcesehir University, Istanbul 34353, Turkey

04:40 - 05:00pm: Study of Single-electron DOMINO Logic Circuit Hiroyuki Otake, Tetsuya Asai, Takahide Oya

Yokohama National University, Japan;

Hokkaido University, Japan

05:00 - 05:20pm: XXX FREE SLOT

05:20 - 05:40pm: Radiation Therapy Optimization with GPU Programming

David Allen, Ovidiu Daescu

The University of Texas at Dallas, Richardson, Texas, USA

05:40 - 06:00pm: FREE SLOT

SESSION 12-PDPTA: (CONCURRENT SESSION WITH SESSIONS 10-PDPTA AND 11-PDPTA)

COMMUNICATION SYSTEMS & INPUT OUTPUT SYSTEMS + INTERCONNECTION NETWORKS & TOPOLOGIES + ROUTING METHODS + NEW PROTOCOLS + VANET +

PEER-TO-PEER NETWORKS + SENSOR NETWORKS AND APPLICATIONS

Chair: TBA

July 24, 2014 (Thursday); 10:40am - 02:20pm

(LOCATION: Ballroom 2)

10:40 - 11:00am: A Fault-tolerant Routing Algorithm Based on Safety Levels in a

Hyper-Star Graph

Yuko Sasaki, Yuki Hirai, Hironori Nakajo, Keiichi Kaneko Tokyo University of Agriculture and Technology, Japan

11:00 - 11:20am: Incentive Scheme for P2P Live Streaming Systems Being Aware of the

Upload Capability of the Participants

Shogo Kanda, Satoshi Fujita Hiroshima University, Japan

11:20 - 11:40am: Linux Software RAID Level O Technique for High Performance

Computing by Using PCI-Express Based SSD

Jae Gi Son, Taegyeong Kim, Kuk Jin Jang, Hyedong Jung Korea Electronics Technology Institute, South Korea

11:40 - 12:00pm: The Static and Dynamic Performance of An Adaptive Routing Algorithm

of 2-D Torus Network Based on Turn Model

Yasuyuki Miura, Kentaro Shimozono, Shigeyoshi Watanabe, Kazuya Matoyama

Shonan Institute of Technology, Japan;

Net-Research Co., Ltd., Japan

12:00 - 12:20pm: XXX FREE SLOT

12:20 - 01:00pm: LUNCH (On Your Own)

01:00 - 01:20pm: GPU-based String Matching Method Using Warp Shuffle Instructions

for Service-oriented Routers

Satoshi Koibuchi, Kazumasa Ikeuchi, Shinichi Ishida, Hiroaki Nishi Graduate School of Science and Technology, Keio University, Japan

01:20 - 01:40pm: Study of Dynamically-Allocated Multi-Queue Buffers for NoC Routers

Yungchou Tsai, Yarsun Hsu

National Tsing Hua University, Hsinchu, Taiwan, R.O.C.

01:40 - 02:00pm: How to Tolerate Simultaneous Leave of Peers in Tree-Structured

P2P Live Streaming Systems Tatsuya Kouchi, Satoshi Fujita Hiroshima University, Japan

02:00 - 02:20pm: Three Dimensional Free Space Optical Network Reconfiguration

Heuristics Using Active Link Removal Xuemei Sun, Danny Luong, G. Young

California State Polytechnic University, Pomona, California, USA

SESSION 13-PDPTA: (CONCURRENT SESSION WITH SESSION 11-PDPTA)

PARALLEL AND DISTRIBUTED COMPUTING - LATE BREAKING PAPERS &

POSITION PAPERS Chair: TBA

July 24, 2014 (Thursday); 02:20pm - 04:40pm

(LOCATION: Ballroom 2)

NOTE: We anticipate a large number of speaker no-shows for this track; this is due to potential delay in obtaining US visa, non registration, ... In cases of no-shows, the presentations can be

moved up in order to close time gaps in the session.

02:20 - 02:40pm: XXX FREE SLOT

02:40 - 03:00pm: Compiler-Level Explicit Cache for a GPGPU Programming Framework

Tomoharu Kamiya, Takanori Maruyama, Kazuhiko Ōhno

Mie University, Kurimamachiya-cho, Tsu City, Mie, Japan

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: XXX FREE SLOT

03:40 - 04:00pm: Efficient Classification of Hyperspectral Images on Commodity

GPUs Using ELM-based Techniques

Javier Lopez-Fandino, Dora B. Heras, Francisco Arguello

Centro Singular de Investigacion en Tecnoloxias da Informacion (CITIUS), Universidade de Santiago de Compostela Rua de Jenaro

de la Fuente, Dominguez, Spain

04:00 - 04:20pm: Heuristics for Conversion Process of GPU's Kernels for Multiples

Kernels with Concurrent Optimization Divergence

Jose Ritomar Carneiro Torquato, Esteban Walter Gonzalez Clua

Federal Fluminense University, Niteroi-RJ, Brazil

04:20 - 04:40pm: On the Optimization of HDA for Multicore Machines; Performance

Analysis

Victoria Sanz, Armando De Giusti, Marcelo Naiouf III- LIDI, UNLP, La Plata, Buenos Aires, Argentina

SAM'14 CONFERENCE SCHEDULE

The 2014 International Conference on Security and Management

There are a number of other sessions (not listed as part of SAM'14 in this schedule) that are of potential interest to SAM'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, some sessions in ICWN'14, GCA'14, ABDA'14, ICOMP'14, and FECS'14 conferences discuss topics that are within the scope of SAM'14; these have been scheduled so that selected SAM'14 groups/attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force

on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-SAM: SECURITY EDUCATION

Co-Chairs: Dr. Gregory Vert, Texas A&M University, USA;

Dr. Syed Rizvi, Pennsylvania State University, Altoona, USA

July 21, 2014 (Monday); 01:00pm - 02:20pm

(LOCATION: Ballroom 2)

01:00 - 01:20pm: Cybersecurity Awareness in Organizations: A Case Study of University

of Venda

Isong Bassey and Murendeni Randiman

University of Venda Thohoyandou, South Africa

01:20 - 01:40pm: The UWF Cyber Battle Lab: A Hands-On Computer Lab for Teaching and

Research in Cyber

C. Terry, A. Castellano, J. Harrod, J. Luke, T. Reichherzer

University of West Florida, Pensacola, Florida, USA

01:40 - 02:00pm: Bite-sized Learning of Privacy Issues

Svetlana Peltsverger

Southern Polytechnic State University, Georgia, USA

02:00 - 02:20pm: A Survey on Student Privacy Attitudes and Behaviors

Mark Rowan and Josh Dehlinger

Towson University, Towson, Maryland, USA

SESSION 2-SAM: SPECIAL TRACK ON WIRELESS NETWORKS SECURITY + MODELING OF

INFORMATION SECURITY

Co-Chairs: Dr. Hanen Idoudi, Manouba University, Tunisia;

Dr. Samiha Ayed, Telecom Bretagne, France

July 21, 2014 (Monday); 02:20pm - 04:20pm

(LOCATION: Ballroom 2)

02:20 - 02:40pm: Security Considerations in WSN-Based Smart Grids

Hanen Idoudi and Mustafa Saed University of Manouba, Tunisia;

University of Detroit Mercy, Detroit, Michigan, USA

02:40 - 03:00pm: Security of Online Social Networks

Rihab Ben Aicha, Hanen Idoudi

National School of Computer Sciences, University of Manouba,

Tunisia

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: Security Concepts and Issues in Intra-Inter Vehicle Communication

Network

Mustafa Saed, Scott Bone, John Robb

University of Detroit Mercy, Detroit, Michigan, USA; Hyundai-Kia America Technical Center, Inc., USA

03:40 - 04:00pm: Negotiation of Sensitive Resources Using Different Strategies for

Policy's Protection Diala Abi Haidar

Dar Al Hekma University, Jeddah, Saudi Arabia

04:00 - 04:20pm: MPEG-21 Based Approach to Secure Digital Contents Using DC Metadata

Samiha Ayed, Muhammad Sabir Idrees, Nora Cuppens-Boulahia,

and Frederic Cuppens

Telecom Bretagne, Cesson Sevigne, France

SESSION 3-SAM: INFORMATION ASSURANCE

Chair: Dr. Hiroaki Kikuchi, Meiji University, Japan

July 21, 2014 (Monday); 04:20pm - 05:40pm

(LOCATION: Ballroom 2)

04:20 - 04:40pm: Simple Method to Quantify Audit Findings

Gary Lieberman

Division of Business, Caldwell College, Caldwell, New Jersey, USA

04:40 - 05:00pm: Small to Medium Enterprise Cyber Security Awareness: An Initial

Survey of Western Australian Business Craig Valli, Ian Martinus, Mike Johnstone

Security Research Institute, Edith Cowan University, Australia

05:00 - 05:20pm: Detecting the Vulnerability of Multi-Party Authorization Protocols

to Name Matching Attacks

Wenjie Lin, Guoxing Chen, Ten H. Lai, David Lee Ohio State University, Columbus, Ohio, USA;

HP Labs, Palo Alto, California, USA

05:20 - 05:40pm: A Dynamic Approach to Risk Calculation for the RAdAC Model

Roberto Marinho, Carla Merkle Westphall, Gustavo Roecker Schmitt Informatics and Statistics Department, Federal University of

Santa Catarina, Florianopolis, Brazil

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL July 21 - Monday; 09:00pm - 11:45pm (LOCATION: Ballrooms 1-5)

SESSION 4-SAM: NETWORK SECURITY + SECURITY MANAGEMENT

Co-Chairs: Prof. Bon Sy, City University of New York, USA;

Dr. Gary Lieberman, Caldwell College, USA

July 22, 2014 (Tuesday); 08:00am - 10:20pm

(LOCATION: Ballroom 2)

08:00 - 08:20am: Malicious Device Inspection in the HAN Smart Grid

Eric McCary, Yang Xiao

University of Alabama, Tuscaloosa, Alabama, USA

08:20 - 08:40am: Developing and Assessing a Multi-Factor Authentication Protocol

for Revocable Distributed Storage in a Mobile Wireless Network

Scott Bell, Eugene Vasserman, Daniel Andresen Kansas State University, Manhattan, Kansas, USA

08:40 - 09:00am: Smart Grid HAN Accountability with Varying Consumption Devices

Eric McCary, Yang Xiao

University of Alabama, Tuscaloosa, Alabama, USA

09:00 - 09:20am: Implementation of Oblivious Bloom Intersection in Private Set

Intersection Protocol (PSI)

Levent Ertaul, Aditya M. Mehta, Takai K. Wu

California State University East Bay, Hayward, California, USA

09:20 - 09:40am: A Comparative Evaluation of Intrusion-Alert Prediction Techniques

Kian-Moh Terence Tan, Neil C. Rowe, Christian J. Darken, and

Farn-Wei J. Khong

DSO National Laboratories, Singapore;

U.S. Naval Postgraduate School, Monterey, California, USA;

Defence Science & Technology Agency, Singapore

09:40 - 10:00am: Email Encryption: Discovering Reasons Behind its Lack of Acceptance

Kendal Stephens, Lei Chen

Sam Houston State University, Huntsville, Texas, USA

10:00 - 10:20am: IT Security Policies and Employee Compliance: The Effects of

Organizational Environment

Kendal Stephens, Narasimha Shashidhar

Sam Houston State University, Huntsville, Texas, USA

10:20 - 10:40am: BREAK

SESSION 5-SAM: BIOMETRICS & FORENSICS I + CRYPTOGRAPHIC TECHNOLOGIES

Co-chairs: Dr. Audrey Gendreau, Saint Leo University, USA;

Dr. Victor Gayoso Mart.nez, CSIC, Spain

July 22, 2014 (Tuesday); 10:40am - 12:00pm

(LOCATION: Ballroom 2)

10:40 - 11:00am: State of the Art in Similarity Preserving Hashing Functions

V. Gayoso Martinez, F. Hernandez Alvarez, L. Hernandez Encinas CSIC, Spain; Institute of Physical and Information Technologies

(ITEFI), Spain

11:00 - 11:20am: VOIP Forgery Detection

Satish Tummala, Yanxin Liu, Qingzhong Liu

Sam Houston State University, Huntsville, Texas, USA

11:20 - 11:40am: A Low-Complexity Procedure for Pupil and Iris Detection Suitable for

Biometric Identification

V. Gayoso Martinez, F. Hernandez Alvarez, L. Hernandez Encinas CSIC, Spain; Institute of Physical and Information Technologies

(ITEFI), Spain

11:40 - 12:00pm: Towards Designing a Greener Advanced Encryption Standard (AES)

S. Raghu Talluri, Swapnoneel Roy

University of North Florida, Jacksonville, Florida, USA

12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 6-SAM: COMPUTER AND HARDWARE SECURITY

Co-Chairs: Dr. Nicolas Sklavos, Technological Educational Institute of

Western Greece, Greece;

Dr. Samuel Ndueso John, Covenant University, Nigeria

July 22, 2014 (Tuesday); 01:00am - 02:20pm

(LOCATION: Ballroom 2)

01:00 - 01:20pm: Modeling and Attack for 4-MUXs Based PUF

Shohei Kiryu, Kensaku Asahi, Masaya Yoshikawa

Department of Information Engineering, Meijo University, Japan

01:20 - 01:40pm: Relationship Between Number of Stages in ROPUF and CRP generation

on FPGA

Muslim Mustapa, Mohammed Niamat

Electrical Engineering and Computer Science, University of Toledo, USA

01:40 - 02:00pm: Autonomic Intrusion Detection System in Cloud Computing with Big Data

Kleber M. M. Vieira, Fernando Schubert, Guilherme A. Geronimo,

Rafael de Souza Mendes, Carlos B. Westphall

The Federal University of Santa Catarina (UFSC), Santa Catarina, Brazil

02:00 - 02:20pm: Fourier Transform as Feature Extraction for Malware Classification

Stanislav Ponomarev, Nathan Wallace, Travis Atkison Louisiana Tech University, Ruston, Louisiana, USA

SESSION 7-SAM: SPECIAL TRACK ON IOT AND SCADA CYBERSECURITY EDUCATION

Chair: Prof. George Markowsky; Professor & Associate Director, School of

Computing & Information Science, University of Maine, Orono, Maine, USA

July 22, 2014 (Tuesday); 02:20pm - 06:00pm

(LOCATION: Ballroom 2)

02:20 - 02:40pm: MODBUS Covert Channel

Carlos Leonardo, Daryl Johnson

Networking, Security & Systems Administration, Rochester Institute of

Technology, Rochester, New York, USA

02:40 - 03:00pm: A Behavior-Based Covert Channel in a MMQ

Brian Rowe, Daryl Johnson

Networking, Security & Systems Administration, Rochester Institute of

Technology, Rochester, New York, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-SAM

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

SESSION 7-SAM: Continued ... SPECIAL TRACK ON IOT AND SCADA CYBERSECURITY EDUCATION

03:40 - 04:00pm: CloudWhip: A Tool for Provisioning Cyber Security Labs in the

Amazon Cloud

Kevin Amorin, N. H. Shekar, Leena AlAufi

College of Computer and Information Science, Northeastern University,

Boston, Massachusetts, USA

04:00 - 04:20pm:	SCADA Cybersecurity Education from a Curriculum and Instruction Perspective Raymond Albert University of Maine at Fort Kent, Fort Kent, Maine, USA
04:20 - 04:40pm:	Audio Steganography Using Stereo Wav Channels Douglas C. Farmer, Daryl Johnson Networking, Security & Systems Administration, Rochester Institute of Technology, Rochester, New York, USA
04:40 - 05:00pm:	Potential Vulnerabilities of the NextGen Air Traffic Control System Carl Giannatto, George Markowsky University of Maine, Orono, Maine, USA
05:00 - 05:20pm:	From Air Conditioner to Data Breach George Markowsky, Linda Markowsky University of Maine, Orono, Maine, USA
05:20 - 05:40pm:	Scanning for Vulnerable Devices on the Internet of Things Linda Markowsky, George Markowsky University of Maine, Orono, Maine, USA
05:40 - 06:00pm:	The Maine Cybersecurity Cluster's (MCSC): Virtual Cybersecurity Virtual Cybersecurity Collaborative Learning Laboratory (VCCLL) Glenn Wilson, Lynn Lovewell, Edward Sihler University of Southern Maine, Portland, Maine, USA
06:00 - 09:00pm:	TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES (Please see the lists at the begining of this book for details)

SESSION 8-SAM: CRYPTOGRAPHIC TECHNOLOGIES I

Chair: Prof. Michael Grimaila; Air Force Institute of Technology,

Wright-Patterson AFB, Ohio, USA

July 23, 2014 (Wednesday); 08:00am - 09:20am

(LOCATION: Ballroom 2)

08:00 - 08:20am: Modeling Continuous Time Optical Pulses in a Quantum Key

Distribution Discrete Event Simulation

Logan O. Mailloux, Michael R. Grimaila, Douglas D. Hodson,

Colin McLaughlin

Air Force Institute of Technology, AFIT/ENV, Wright-Patterson

AFB, Ohio, USA

08:20 - 08:40am: A Survey on Certificateless Encryption Techniques

Fahad T. Bin Muhaya

King Saud University, Riyadh, Kingdom of Saudi Arabia

08:40 - 09:00am: XXX FREE SLOT

09:00 - 09:20am: Privacy-Preserving Protocol for Reduced Cancer Risk on Daily

Physical Activity

Hiroaki Kikuchi, Shigeta Ikuji, Manami Inoue

Mathematical Sciences, Meiji University, Tokyo, Japan; Cyber Communication Inc., Minato-ku, Tokyo, Japan; National Cancer Center, Chuo-ku, Tokyo, Japan

SESSION 9-SAM & 10-SAM: CRYPTOGRAPHIC TECHNOLOGIES II + SECURITY MANAGEMENT I
Co-Chairs: Prof. Nizar Al Holou, University of Detroit Mercy, USA
Dr. Mehmet Sahinoglu, Auburn University, Montgomery, USA
XXX

July 23, 2014 (Wednesday); 09:20am - 12:00pm

(LOCATION: Ballroom 2)

09:20 - 09:40am: Formal Verification of Improved Numeric Comparison Protocol for

Secure Simple Paring in Bluetooth Using ProVerif

Kenichi Arai, Toshinobu Kaneko

Tokyo University of Science, Yamazaki Noda-City, Chiba, Japan

09:40 - 10:00am: Digital Identities and Accountable Agreements in Web Applications

Joona Kannisto, Takeshi Takahashiy, Jarmo Harju

Tampere University of Technology, Tampere, Finland; National Institute of Info. & Communications Tech., Tokyo, Japan

10:00 - 10:20am: A Quantitative Index for Software Application Security Risk

Mehmet Sahinoglu, Stephen Stockton, Scott Morton, David Ang

Informatics Institute, Auburn University at Montgomery, Alabama, USA

10:20 - 10:40am: BREAK

10:40 - 11:00am: An Interoperability Framework for Security Policy Languages

Amir Aryanpour, Edmond Parkash, Andrew Harmel-Law, Scott Davies

Bedfordshire University, University Square, Luton, UK

11:00 - 11:20am: The Implementation of BGP Monitoring, Alarming, and Protecting System

by BGP-UPDATE-Based Method Using ECOMMUNITY in Real Time

Je-Kuk Yun, BeomSeok Hong, Yanggon Kim

Information Technology, Towson University, Towson, Maryland, USA

11:20 - 11:40am: FREE SLOT

11:40 - 12:00pm: FREE SLOT

12:00 - 01:20pm: LUNCH (On Your Own)

SESSION 11-SAM: SECURITY MANAGEMENT II + SECURITY EDUCATION

Chair: Dr. Diala Abi Haidar; Dar Al Hekma University, Saudi Arabia

July 23, 2014 (Wednesday); 01:20pm - 03:00pm

(LOCATION: Ballroom 2)

01:20 - 01:40pm: Security Management of Bring-Your-Own-Devices

Sara Gallotto, Weifeng Chen

Southern New Hampshire University, Manchester, New Hampshire, USA; California University of Pennsylvania, California, Pennsylvania, USA

01:40 - 02:00pm: SIPPA Approach Towards a Privacy Preserving Voice-based

Identity Solution

Bon K. Sy

Queens College & University Graduate Center, Flushing, New York, USA

02:00 - 02:20pm: Creating a Policy Based Network Intrusion Detection System Using

Java Platform

Samuel N. John, Charles U. Ndujiuba, Robert E. Okonigene,

Chinonso E. Okereke, Miebaka E. Wakama Covenant University, Ogun State, Nigeria; Ambrose Alli University, Edo State, Nigeria

02:20 - 02:40pm: LearnFire: A Firewall Learning Tool for Undergraduate Cybersecurity

Courses

Alicia Kirkland, Jens Mache

Lewis & Clark College, Portland, Oregon, USA

02:40 - 03:00pm: Teaching Cybersecurity to Wide Audiences with Table-Top Games

Tadhg Fendt, Jens Mache

Lewis & Clark College, Portland, Oregon, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-SAM

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Steganography Through Block IO
Joe Jevnik, Leonidas Deligiannidis

Wentworth Institute of Technology, Boston, Massachusetts, USA

O. A Formal Data Flow Model to Study Network Protocol Encapsulation

Inconsistencies

Francois Barrere, Romain Laborde, Hicham Elkhoury,

Abdelmalek Benzekri

IRIT Laboratory - Toulouse University, Route de Narbonne, France

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SESSION 12-SAM: BIOMETRICS AND FORENSICS II

Chair: Prof. Craig Valli, Edith Cowan University, Australia

July 23, 2014 (Wednesday); 03:40pm - 06:00pm

(LOCATION: Ballroom 2)

03:40 - 04:00pm: XXX FREE SLOT

04:00 - 04:20pm: A Framework for Leveraging Cloud Computing to Facilitate Biometrics

at Large-Scale

John K. Mitchell III, Syed S. Rizvi

Pennsylvania State University, Altoona, Pennsylvania, USA

04:20 - 04:40pm: Exploring Digital Forensics Tools in Backtrack 5.0 r3

XXX Ahmad Ghafarian, Syed Amin Hosseini Seno

University of North Georgia, Dahlonega, Georgia, USA;

Ferdowsi University of Mashhad, Virtual Study Center, Mashhad, Iran

04:40 - 05:00pm: A Method for Authentication Using Behavior Biometrics on WEB

Hiroshi Dozono, Naoto Yamasaki, Masanori Nakakuni

Saga University, Japan; Fukuoka University, Fukuoka, Japan

05:00 - 05:20pm: FREE SLOT

05:20 - 05:40pm: FREE SLOT

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 13-SAM: SECURITY APPLICATIONS

Co-Chairs: Dr. Hiroshi Dozono, Saga University, Japan

Dr. Yun Bai, University of Western Sydney, Australia

July 24, 2014 (Thursday); 08:00am - 10:40am

(LOCATION: Ballroom 2)

08:00 - 08:20am: Research on the Security of OAuth-Based Single Sign-On Service

Rong Huazhu, Ji Xiang, Da-Ren Zha

Chinese Academy of Sciences, Beijing, P. R. China

08:20 - 08:40am: An Approach and Its Implementation for Cloud Computing Security

Yun Bai, Khaled M. Khan, Chunsheng Yang

University of Western Sydney, Australia; Qatar University, Qatar;

National Research Council of Canada, Ottawa, ON, Canada

08:40 - 09:00am: Evaluating Gesture-Based Password and Impact of Input Devices

Lakshmidevi Sreeramareddy, Atcharawan Janprasert, Jinjuan HeidiFeng

Towson University, Towson, Maryland, USA

09:00 - 09:20am: Robust Reversible Watermarking Scheme for Images

Alejandra Menendez-Ortiz, Claudia Feregrino-Uribe,

Jose Juan Garcia-Hernandez INAOE, Puebla, Mexico;

Laboratory of Information Technologies, CINVESTAV, Mexico

09:20 - 09:40am: Component Rejuvenation for Security for Cloud Services

Chen-Yu Lee, Krishna M. Kavi, Mahadevan Gomathisankaran

University of North Texas, Denton, Texas, USA

09:40 - 10:00am: Ontology-based Privacy Setting Transfer Scheme on Social Networking

Systems

Chen-Yu Lee, Krishna M. Kavi, Mahadevan Gomathisankaran

University of North Texas, Denton, Texas, USA

10:00 - 10:20am: A Distributable Hybrid Intrusion Detection System for Securing

Wireless Networks David Tahmoush

University of Maryland, University College, Maryland, USA

10:20 - 10:40am: Achieving Web Security by Increasing the Web Application Safety

Maryam Abedi, Navid Nikmehr, Mohsen Doroodchi

Shiraz University, Shiraz, Iran;

Cardinal Stritch University, Milwaukee, Wisconsin, USA

10:40a - 03:00p: During this period, SAM attendees are encouraged to participate

in sessions belonging to ICWN'14, GCA'14, ABDA'14, ICOMP'14, and FECS'14 conferences. These sessions discuss topics that significantly

overlap the scope of SAM'14.

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-SAM

July 24, 2014 (Thursday)

(LOCATION: Hallways of Ballrooms 1-5)

03:40 - 05:40pm: During this period, SAM attendees are encouraged to participate

in sessions belonging to ICWN'14, GCA'14, ABDA'14, ICOMP'14, and

FECS'14 conferences. These sessions discuss topics that significantly

overlap the scope of SAM'14.

SERP'14 & EEE'14 CONFERENCE SCHEDULES

The 2014 International Conference on Software Engineering Research and Practice (SERP'14)

+

The 2014 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government (EEE'14)

Because of partial topical and technical overlap between SERP'14 and EEE'14 tracks, the schedule of EEE'14 is merged with the schedule of SERP'14, resulting a comprehensive schedule. It is hoped that this would encourage the participants of the two conferences to explore cross-fertilization of ideas. There are also a number of other sessions (not listed as part of these two conferences) that are of potential interest to SERP'14 and EEE'14 participants (sessions belonging to other joint conferences.) Therefore, you are encouraged to also check the schedules of other joint conferences. In particular, sessions in FECS'14, SWWS'14, ICAI'14, GEM'14, ICOMP'14, ESA'14, and IKE'14 conferences discuss topics that are within the scope of SERP'14 and EEE'14; these have been scheduled so that selected SERP'14 and EEE'14 attendees can also participate in them.

Note that each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend; The conference room numbers (Locations) appear in this document.

July 20

03:00p - 08:30p: REGISTRATION (Second Floor, Conference Lobby: 1-5)

08:30 - 08:45am: CONGRESS OPENING REMARKS - July 21, Monday:

Prof. Hamid R. Arabnia (Chair, Steering Committee & Coordinator)

University of Georgia, Georgia, USA;

Editor-in-Chief, The Journal of Supercomputing (Springer) (LOCATION: Monte Carlo, Blue Man Group, main THEATER)

08:45 - 09:45am: KEYNOTE LECTURE 1 - July 21, Monday:

SMART DATA FOR YOU AND ME: PERSONALIZED AND ACTIONABLE

PHYSICAL CYBER SOCIAL BIG DATA

Prof. Amit Sheth

Fellow, IEEE; LexisNexis Eminent Scholar; Founder/Executive

Director, Ohio Center of Excellence in Knowledge-enabled Computing

(Kno.e.sis) and Professor of Computer Science, Wright State

University, Ohio, USA

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

09:45 - 10:45am: KEYNOTE LECTURE 2 - July 21, Monday:

VISUALIZATION AND DATA MINING FOR HIGH DIMENSIONAL DATASETS

Prof. Alfred Inselberg

School of Mathematical Sciences, Tel Aviv University, Israel; Senior Fellow, San Diego Supercomputing Center; Inventor of the multidimensional system of Parallel Coordinates and author of textbook "Parallel Coordinates: VISUAL Multidimensional Geometry",

(praised by Stephen Hawking among others.)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

10:45 - 11:45am: KEYNOTE LECTURE 3 - July 21, Monday:

BIG DATA ANALYTICS COGNITIVE ALGORITHMS

Dr. Leonid I. Perlovsky

Harvard University, Cambridge, Massachusetts, USA (School of Engineering and Applied Sciences and Medical School Athinoula Martinos Brain Imaging Center); The US Air Force Research Lab., USA; CEO, LP Information Technology, USA; Chair, IEEE Task Force on The Mind and Brain; Recipient of John McLucas Award (the

highest US Air Force Award for basic research)

(LOCATION: Monte Carlo, Blue Man Group, main THEATER)

11:45a - 01:00p: LUNCH (On Your Own)

SESSION 1-SERP: SOFTWARE ENGINEERING & APPLICATIONS + RELATED ISSUES +

EDUCATION & TRAINING

XXX: Co-Chairs: Prof. Shahriar Movafaghi; Southern New Hampshire

University, Manchester, New Hampshire, USA;

Dr. Joel Mana Goncalves; Prodesp - Tecnologia da Informacao,

Brazil;

Jasmeet Singh; University of Waterloo, Ontario, Canada

July 21, 2014 (Monday); 01:00pm - 03:00pm

(LOCATION: Sterling Room)

01:00 - 01:20pm: Experimental Evaluation of Hybrid Algorithm in Spectrum Based

Fault Localization

Jonghee Park, Eunseok Lee

Sungkyunkwan University; Samsung Electronics, South Korea

01:20 - 01:40pm: Electronic Private Library Portal

Shahriar Movafaghi

Southern New Hampshire University, Manchester, NH, USA

01:40 - 02:00pm: Positive Train Control: Concepts, Implementations, and Challenges

David J. Coe, Jeffrey H. Kulick

University of Alabama in Huntsville, Alabama, USA

02:00 - 02:20pm: Synchronous Gestures for Co-collaboration on Multiple

Mobile Devices

Yuguang Zeng, Jingyuan Zhang

University of Alabama, Tuscaloosa, Alabama, USA

02:20 - 02:40pm: Development Of a Mathematical Model for Designing Reliable

Information Systems and its Properties

Seilkhan Boranbayev, Askar Boranbayev, Sanzhar Altayev

L.N. Gumilyov Eurasian National University, Astana, Kazakhstan;

Nazarbayev University, Astana, Kazakhstan

02:40 - 03:00pm: The Case for an Open and Evolving Software Assurance Framework

Miron Livny, Barton Miller, Von Welch

Morgridge Institute for Research, Madison, Wisconsin, USA; University of Wisconsin-Madison, Madison, Wisconsin, USA;

Indiana University, Bloomington, Indiana, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION A-SERP-EEE

July 21, 2014 (Monday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Does Domain Knowledge Increase Creativity During Requirements

Development: An Empirical Study Sonu Sharma, Gursimran S. Walia

Microsoft Corporation, Fargo, North Dakota, USA;

North Dakota State University, Fargo, North Dakota, USA

XXX

O. Embracing e-Learning as a Catalyst for Enhancing Program Viability,

Marketability, and Curricular Innovation

Adel Abunawass, Edwin Rudolph

University of West Georgia, Carrollton, Georgia, USA

O. An Environment for Automatic Tests Generation from Use Case

Specifications

Carolina Diniz Cunha, Mark Alan Junho Song

Computer Science Department, PUC MINAS, CEP, Brazil

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SESSION 2-EEE: E-GOVERNMENT & ISSUES OF INTEREST TO GOVERNMENT, RELEVANT

AGENCIES, AND PUBLIC ADMINISTRATION

XXX Co-Chairs: Prof. Eamon P. Doherty; Professor & Cybercrime Training
Lab Director, Fairleigh Dickinson University, New Jersey, USA;

Prof. G. N. Pandey; Indian Institute of Technology

Allahabad, India

July 21, 2014 (Monday); 03:40pm - 06:00pm

(LOCATION: Sterling Room)

03:40 - 04:00pm: Scrivania: Public Services Execution and Semantic Search

Riccardo Cognini, Damiano Falcioni, Marco Maccari,

Alberto Polzonetti, Barbara Re University of Camerino, Italy

04:00 - 04:20pm: Framework of e-Government Technical Infrastructure - Case

of Estonia

Andres Kutt, Jaan Priisalu

Estonian Information System Authority, Estonia

04:20 - 04:40pm: Income Inequality and Information Communications Technologies:

Causes, Solutions, and One Example

Darren Gudmundson

Income-Inequality.com, Canada; Business Transformation and Tech., Innovation Energy & Mines, Government of Manitoba, Canada

04:40 - 05:00pm: The Welcome Brazilian Idea About the United Nations Supporting

the Regulation of Internet in Housing Rights, the Probable

Failure of This Idea

Joel Mana Goncalves, Rodrigo Stabile

Companhia de Processamento de Dados do Estado de Sao Paulo, Brazil

05:00 - 05:20pm: E-Governance For Efficient Management to Reduce Corruption: An

ICT Driven Paradigm

T. Sheela, Daniel Chandran Anna University, Chennai, India;

University of Technology Sydney, Australia

05:20 - 05:40pm: Mobile Government Implementation for Government Service Delivery

in Developing Countries: A South Africa Context Olalekan Samuel Ogunleye, Jean-Paul Van Belle CSIR Meraka Institute, Pretoria, South Africa;

University of Cape Town, South Africa

05:40 - 06:00pm: Cyber Education - Security For Citizenship

Joel Mana Goncalves, Rodrigo Stabile

Companhia de Processamento de Dados do Estado de Sao Paulo, Brazil

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

09:00 - 11:45pm: CONFERENCE RECEPTION DINNER / SOCIAL

July 21 - Monday; 09:00pm - 11:45pm

(LOCATION: Ballrooms 1-5)

SESSION 3-SERP: SOFTWARE ENGINEERING & WEB BASED SYSTEMS + OPEN SOURCE

SOFTWARE, OBJECT ORIENTED TECHNOLOGY + SOA

XXX Co-Chairs: Dr. Dusan Sormaz; Ohio University, Athens, Ohio, USA;

Dr. Jang Yeol Kim; Korea Atomic Energy Research

Institute (KAERI), Daejeon, South Korea

July 22, 2014 (Tuesday); 08:00am - 10:20am

(LOCATION: Sterling Room)

08:00 - 08:20am: Clustering Analysis for Object Formation in Software Modeling

Dusan Sormaz

Ohio University, Athens, Ohio, USA

08:20 - 08:40am: Adding Semantic Web Technology to the Object-Oriented Method

for Interoperability

Priyatham Anisetty, Paul Young

Acxiom Corporation, Conway, Arkansas, USA;

University of Central Arkansas, Conway, Arkansas, USA

08:40 - 09:00am: Domain-Driven Model Inference Applied to Web Applications

Sebastien Salva, William Durand

LIMOS, University of Auvergne, France; LIMOS, BLaise Pascal University, France

09:00 - 09:20am: A Web-based Visual Analytic System for Understanding the

Structure of Community Land Model

Yang Xu, Dali Wang, Tomislav Janjusic, Xiaofeng Xu University of Tennessee, Knoxville, Tennessee, USA;

Climate Change Science Institute, Oak Ridge National Laboratory, Tennessee, USA; Computer Science and Mathematics Division, Oak

Ridge National Laboratory, Tennessee, USA

09:20 - 09:40am: Source Code Control Workflows for Open Source Software

Kevin A. Gary, Ziv Yaniv, Ozgur Guler, Kevin Cleary, and

Andinet Enquoharie

Arizona State University, Mesa, Arizona, USA;

Children's National Medical Center, Washington, DC, USA;

Kitware Inc., Carrboro, North Carolina, USA

09:40 - 10:00am: Application of Fuzzy Inference System in Measuring

Maintainability of Object-Oriented Software

Nasib Singh Gill, Meenakshi Sharma M.D. University, Rohtak, India

10:00 - 10:20am: XXX Digital Divide or Digital Interest

Elliott S. Lynn

American Public University, USA

10:00 - 10:20am: BREAK

SESSION 4-SERP: EMBEDDED SOFTWARE SYSTEMS + CLOUD + SOFTWARE DESIGN &

APPLICATIONS + ENTERPRISE ARCHITECTURES + GAME DESIGN + GUI XXX Co-Chairs: Dr. Jang Yeol Kim; Korea Atomic Energy Research

Institute (KAERI), Daejeon, South Korea;

Prof. Nasib Singh Gill, M. D. University, Haryana, India;

Dr. Lina Khalid; Zarqa University, Amman, Jordan

July 22, 2014 (Tuesday); 10:20am - 01:00pm

(LOCATION: Sterling Room)

10:20 - 10:40am: Establishing Testbed for Functional Testing of Embedded System

Jang Yeol Kim, Kwang Seop Son, Young Jun Lee, Se Woo Cheon,

Kyoung Ho Cha, Jang Soo Lee, Kee Choon Kwon

Korea Atomic Energy Research Institute (KAERI), Daejeon,

Republic of Korea, South Korea

10:40 - 11:00am: Decomposed Processes in Cloud BPM: Techniques for Monitoring

and The Use of OLC

Jose Martinez Garro, Patricia Bazan, Javier Diaz

Universidad Nacional de La Plata, UNLP, La Plata, Argentina; LINTI - UNLP, Universidad Nacional de La Plata, Argentina

11:00 - 11:20am: Proposal of Avatar Generation System Based on Design According

to Generation of Comic Character Reiko Kuwabara, Takayuki Fujimoto

Graduate School of Engineering, Toyo University, Japan

11:20 - 11:40am: Proposal on Feeding Support Application Software Based on

Research into the Effect of a "Fasting State" on

"Mental Alertness"

Motoichi Adachi, Takayuki Fujimoto

Graduate School of Engineering, Toyo University, Japan

11:40 - 12:00pm: A Methodology for Development of Enterprise Architecture of

PPDR Organisations

Wilmuth Muller, Frank Reinert

Fraunhofer Institute of Optronics, System Technologies and

Image Exploitation IOSB, Germany

12:00 - 12:20pm: Game-Based Learning Development Process: An Exploratory

Analysis of Game Development Companies in Brazil Joao Coelho Neto, Sheila Reinehr, Andreia Malucelli

UENP, Brazil; PUCPR, Brazil

12:20 - 12:40pm: DIRCE - Design of Interaction and Elicitation of Requirements

Focusing on the Communication and Exploration of Ideas: Experiences

of Use in Content Creation Systems for Digital Television

Marilia S. Mendes, Elizabeth S. Furtado Federal University of Ceara, Brazil; University of Fortaleza, Brazil

12:40 - 01:00pm: Towards Automatic GUI Testing Using Task and Dialog Models

Eman M. Saleh

Software Engineering Department, Faculty of Information Technology,

Applied Science University, Amman, Jordan

01:00 - 02:00pm: LUNCH (On Your Own)

SESSION 5-EEE: E-COMMERCE, DSS, CLOUD COMPUTING, WEB APPLICATIONS & TOOLS,

MANAGEMENT & SOCIAL NETWORKS

XXX Co-Chairs: Dr. Charles V. Balch; University of Northern Arizona, USA;

Edmund Balogun; The City University of New York, City College,

New York, USA

XXX July 22, 2014 (Tuesday); 02:00pm - 05:40pm

(LOCATION: Sterling Room)

02:00 - 02:20pm: E-Commerce in Saudi Arabia: Acceptance and Implementation

Difficulties Eyad Makki

The Catholic University of America, Washington, DC, USA

02:20 - 02:40pm: Novel Approach to Build Audit Rule Ontology for Healthcare

Decision Support Systems

Numanul Subhani, Robert D. Kent

University of Windsor, Windsor, Ontario, Canada

02:40 - 03:00pm: New Windows Rootkit Technologies for Enhancing Digital Rights

Management in Cloud Computing Environments

Woei-Jiunn Tsaur, Jia-Xin Wu Da-Yeh University, Taiwan, R.O.C.

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION B-SERP-EEE

July 22, 2014 (Tuesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Program Dependence Graph for Python's Dynamic Reference Jangwu Jo, Hye-Yeon Lim, Dae-Seong Kang Dong-A University, Busan, South Korea

O. Symbolic Model Checking Appplied to Timing Diagrams Amanda Danielle Lima de Oliveira Tameirao, Mark Alan Junho Song Pontificia Universidade Catolica de Minas Gerais, Brazil

O. A Real Time Monitoring System To Measure The Quality Of The Italian Public Administration Websites Francesco Donini, Maurizio Martinelli, Luca Vasarelli Istituto di Informatica e Telematica, Consiglio Nazionale delle

Ricerche, Pisa, Italy
O. XXX Can We Use and Make Carbon-Copy Relationship for Recommending Developers to Fix Bugs
Jungil Kim, Eunjoo Lee

Kyungpook Natinal University, Deagu, Korea

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SESSION 5-EEE: Continued ... E-COMMERCE, DSS, CLOUD COMPUTING, WEB APPLICATIONS & TOOLS, MANAGEMENT & SOCIAL NETWORKS

(LOCATION: Sterling Room)

03:40 - 04:00pm: Towards Effective Bus Transit Services in South Africa: automated

passenger authentication

Bassey Isong, Egbe Dominic, Gilbert Dzawo University of Venda Thohoyandou, South Africa

04:00 - 04:20pm: Technology as a Pedagogical Tool: To Use or Not to Use

Tabby Harraf

University of Northern Colorado, Colorado, USA

04:20 - 04:40pm: Correlation of Employee Performance and Electronic Employee

Monitoring Charles Balch

Northern Arizona University, Arizona, USA

04:40 - 05:00pm: Using Linked Open Data to Enrich a Corporate Memory of

Universities

Cristal Karina Galindo Duran, R. Carolina Medina Ramirez,

and Mihaela Juganaru Mathieu

Universidad Autonoma Metropolitana, Unidad Iztapalapa, Mexico; Institut H. Fayol, Ecole Nationale Superieure des Mines de

Saint Etienne, France

05:00 - 05:20pm: A Study of Poster and Viewer Participation in SNS

Shwu-Min Horng

National Chengchi University, Taiwan, R.O.C.

05:20 - 05:40pm: XXX Teaching IPAD Forensics Online With a MOOC

Eamon P. Doherty

Professor and Cybercrime Training Lab Director, Fairleigh Dickinson University, New Jersey, USA

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 6-SERP: ENERGY EFFICIENT SOFTWARE DESIGN, REQUIREMENTS ENGINEERING,

COST ESTIMATION, SOFTWARE ENGINEERING & SAFETY, SOFTWARE

QUALITY, ERROR CHECKING, DEBUGGING METHODS

XXX Co-Chairs: Prof. G. N. Pandey; Indian Institute of Technology

Allahabad, India;

Prof. Nasib Singh Gill, M. D. University, Haryana, India

July 23, 2014 (Wednesday); 08:00am - 10:00am

(LOCATION: Sterling Room)

08:00 - 08:20am: Empirical Investigation of Systems Cost Estimation Models in the

Limpopo Province of South Africa: A Requirement Modelling Problem

Benson Moyo, Magda Huisman

University of Venda, South Africa; North-West University, South Africa

08:20 - 08:40am: Environment for Requirements Elicitation Supported by

Ontology-Based Conceptual Models: A Proposal

Joselaine Valaski, Sheila Reinehr, Andreia Malucelli

Post-Graduate Program in Information Technology at Pontificia

Universidade Catolica do Parana PUCPR, Brazil

08:40 - 09:00am: Automation of Energy Performance Evaluation of Software

Applications on Servers

Jasmeet Singh, Veluppillai Mahinthan, Kshirasagar Naik University of Waterloo, Waterloo, Ontario, Canada

09:00 - 09:20am: UAH OnTrack: Precision Navigation System for Research on The

Software Safety Issues of Positive Train Control

Scott Schiavone, Sjohn Chambers, Sunny Patel, Lee Ann Hanback, David J. Coe, Jason Winningham, Earl Wells, George Petznick,

and Jeffrey H. Kulick

University of Alabama in Huntsville, Alabama, USA;

Consulting Railway Expert, USA

09:20 - 09:40am: A Quality Assurance Approach to Technical Debt

Zadia Codabux, Byron J. Williams, Nan Niu

Mississippi State University, Starkville, Mississippi, USA

09:40 - 10:00am: Prioritization of Artifacts for Unit Testing Using Genetic

Algorithm Multi-objective Non Pareto

Eduardo Noronha De Andrade Freitas, Auri Marcello Rizzo Vicenzi,

and Celso Goncalves Camilo Jr. Instituto Federal de Goias, Brazil; Universidade Federal de Goias, Brazil

10:00 - 10:20am: BREAK

SESSION 7-SERP: SOFTWARE DEVELOPMENT STRATEGIES, AGILE TECHNOLOGY, BUSINESS

MODELS, REUSE + CLOUD AND TOOLS

XXX Co-Chairs: Darren Gudmundson; Income-Inquality.com, Canada;

Dr. Byron J. Williams; Mississippi State University, USA;

Dr. T. Sheela; Anna University, India;

Benson Moyo; University of Venda, South Africa

July 23, 2014 (Wednesday); 10:20am - 12:20pm

(LOCATION: Sterling Room)

10:20 - 10:40am: Contemporary Build Systems and Techniques for Improvement

Jason White, Kay Zemoudeh

California State University, San Bernardino, California, USA

10:40 - 11:00am: Java Core API Migration: Challenges and Techniques Victor L. Winter, Jonathan Guerrero, Carl Reinke, James T. Perry University of Nebraska at Omaha, Omaha, Nebraska, USA; Sandia National Laboratories, Albuquerque, New Mexico, USA 11:00 - 11:20am: ExpTool: A Tool to Conduct, Package and Replicate Controlled Experiments in Software Engineering Joao Pucci Neto, Lilian Passos Scatalon, Rogerio Eduardo Garcia, Ronaldo Celso Messias Correia, Celso Olivete Junior Sao Paulo State University "Julio de Mesquita Filho", Brazil 11:20 - 11:40am: A Comparative Study On Usage Of Traditional and Agile Software Development Methodologies in Software Industry of Asia Syed Faisal Ahmed Bukhari, Hira Khan Sir Syed University of Engineering and Tech., Karachi, Pakistan 11:40 - 12:00pm: The Position of Component Certification in CBSE Activities Lena Khalid Zarga University, Jordan Software Projects' Size Developed by Mexican Companies 12:00 - 12:20pm: Jorge Aguilar Cisneros, Moises Sanchez, Carlos Fernandez, Everth Rocha, David Martinez, Jose Figueroa Univ. Popular Autonoma del Estado de Puebla, Puebla, Mexico; Instituto de Computacion, Univ. Tecnologica de la Mixteca, Mexico LUNCH (On Your Own) 12:20 - 01:20pm: SESSION 8-EEE: LEARNING & TEACHING METHODS, E-LEARNING + EDUCATIONAL TOOLS, AND RELATED ISSUES XXX Chair: Dr. Larry Wang, Southern Polytechnic State University, USA July 23, 2014 (Wednesday); 01:20pm - 03:00pm (LOCATION: Sterling Room) 01:20 - 01:40pm: Integrating Webwork In Calculus III Larry Wang Southern Polytechnic State University, Marietta, Georgia, USA 01:40 - 02:00pm: Students' Perception Towards Soft-CLIL in the Basque Secondary Schools Chiharu Nakanishi, Hodaka Nakanishi Kunitachi College of Music, Tokyo, Japan; Teikyo University, Tokyo, Japan 02:00 - 02:20pm: Exploring the Requirements and Infrastructure to Develop Online Degree Programs Ingrid A. Buckley, Narang Hira Tuskegee University, Tuskegee, Alabama, USA 02:20 - 02:40pm: Building a Frame-Based Content Generation Approach for APT Prevention Education Yuan-Hsin Tung, Shian-Shyong Tseng, Yuh-Jye Wang, Hwai-Ling Shan Telecommunication Lab., Chunghwa Telecom Co., Ltd., Taiwan, R.O.C.; Asia University, R.O.C. 02:40 - 03:00pm: Using Forensic Images to Teach About White Collar Crime Online

School of Administrative Science, Fairleigh Dickinson University,

Eamon Doherty, Ester Doherty, Elly Goei

Teaneck, New Jersey, USA

03:00 - 03:40pm: BREAK & POSTER/DISCUSSION SESSION C-SERP-EEE

July 23, 2014 (Wednesday)

(LOCATION: Hallways of Ballrooms 1-5)

O. Self-optimization in Autonomic Computing System Based on the Methodology of Bee Swarm Intelligence Anselmo L. O. Nhane, Mark Song Ponticial Catholic University of Minas Gerais Belo Horizonte, Brazil

O. Using Formal Concept Analysis to Study Social Coding in GitHub Otmar Martins Pereira Junior, Luis Henrique Zarate, Humberto Torres Marques Neto, Mark Alan Junho Song

Pontical Catholic University of Minas Gerais, Brazil

O. ICT in Math Teaching: A Systematic Review
Yu-Wen Huang, Janet Mei-Chuen Lin, Yi-Jiun Wu, & Yu-Tzu Lin
National Taiwan Normal University, Taiwan, R.O.C.

0. ...

SESSION 9-EEE: E-BUSINESS, E-COMMERCE, E-BANKING, ENTERPRISE INFORMATION

SYSTEMS, AND SECURITY

Co-Chairs: Dr. Charles V. Balch; University of Northern Arizona, USA

July 23, 2014 (Wednesday); 03:40pm - 05:20pm

(LOCATION: Sterling Room)

03:40 - 04:00pm: A Three Tier Enterprise Information System

D. Yoon, S. Duggineni

CIS Department, University of Michigan - Dearborn, Michigan, USA

04:00 - 04:20pm: How to Create an E-Advertising Domain Model: the AEADS Approach

Alaa A. Qaffas, Alexandra I. Cristea The University of Warwick, Coventry, UK

04:20 - 04:40pm: Analysis and Impact of Bias in Market Research

Edmund Balogun

The City University of New York, City College, New York, USA

04:40 - 05:00pm: Exploring Mobile Computing Trends in Saudi Arabia: An Initial

Investigation of M-Government and M-Business

Mutlaq B. Alotaibi

Vice Dean for Academic Affairs, College of Computer & Information Sciences, Al Imam Mohammad Ibn Saud Islamic University (IMSIU),

Saudi Arabia

05:00 - 05:20pm: XXX Moving Legacy Device Forensics to an Online Format

Eamon P. Doherty, Ester Doherty, Elly Goei

Professor & Cybercrime Training Lab Director, Fairleigh

Dickinson University, New Jersey, USA

05:20 - 05:40pm: FREE SLOT

05:40 - 06:00pm: FREE SLOT

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS + ADDITIONAL INVITED LECTURES

(Please see the lists at the begining of this book for details)

SESSION 10-SERP: SOFTWARE ENGINEERING & WEB BASED SYSTEMS +

OBJECT ORIENTED TECHNOLOGY + SOA

XXX Co-Chairs: Dr. Eman Saleh; Applied Science University, Jordan;

Prof. G. N. Pandey; Indian Institute of Technology

Allahabad, India

July 24, 2014 (Thursday); 08:00am - 09:40am

(LOCATION: Sterling Room)

08:00 - 08:20am: Towards a Formal Framework for Hybrid Analysis of

Composite Web Services May Haydar, Hesham Hallal

Universite de Montreal, Montreal, QC, Canada; Fahad Bin Sultan University, Saudi Arabia

08:20 - 08:40am: Comparative Evaluation of Executable Modeling Language for

Object-Oriented Modeling Education

Seiko Akayama, Kenji Hisazumi, Shin Kuboaki, Syuhei Hiya,

and Akira Fukuda

Kyushu University, Japan; Afrel Co., Ltd., Tokyo, Japan

08:40 - 09:00am: Effectiveness of Coupling Metrics in Identifying Change-Prone

Object-Oriented Classes Mahmoud Elish, Ali Al-Zouri

King Fahd University of Petroleum and Minerals, Saudi Arabia

09:00 - 09:20am: Effective Representation of Object-oriented Program: The Key

to Change Impact Analysis Isong Bassey, Obeten Ekabua

North-West University, Mafikeng, South Africa

09:20 - 09:40am: Web Based Automated Workflow System for Employees' Welfare and

Loan Scheme Using Lightweight Methodology

Okonigene Robert E., John-Otumu M. A., John Samuel N. Ambrose Alli University, Ekpoma, Edo State, Nigeria; Covenant University, Ota, Ogun State, Nigeria

SESSION 11-SERP: SOFTWARE ENGINEERING & APPLICATIONS + RELATED ISSUES

+ EDUCATION AND TRAINING

XXX Chair: Dr. Eman Saleh; Applied Science University, Jordan

July 24, 2014 (Thursday); 09:40am - 11:20am

(LOCATION: Sterling Room)

09:40 - 10:00am: Easel: Purely Functional Game Programming

Bryant Nelson, Joshua Archer, J. Nelson Rushton

Texas Tech University, Texas, USA

10:00 - 10:20am: Efficient and Effective Training in New Languages to Developers

Milica Brajaktarovic

Hawaii Pacific University, Honolulu, Hawaii

10:20 - 10:40am: BREAK

10:40 - 11:00am: An Experiment Comparing Easel with Pygame

Josh Archer, Bryant Nelson, Nelson Rushton

Texas Tech University, Texas, USA

11:00 - 11:20am: Automatic High Performance Structural Optimisation for

Agent-based Models

A. V. Husselmann, K. A. Hawick

Massey University, Auckland, New Zealand;

University of Hull, Hull, UK

SESSION 12-SERP: SOFTWARE ENGINEERING & MANAGEMENT + DIVERSITY ISSUES +

SOFTWARE ARCHITECTURE & DESIGN PATTERNS + SPECIFICATION

METHODS + PROCESS MINING + AUTONOMIC COMPUTING

XXX Chair: Dr. Dusan Sormaz; Ohio University, Athens, Ohio, USA

July 24, 2014 (Thursday); 11:20am - 01:20pm

(LOCATION: Sterling Room)

11:20 - 11:40am: Female Factor and Team Projects - A Social Sensitivity

Perspective

Sourabh Khosla, Lisa L. Bender, Gursimran S. Walia, Kendall Nygard

North Dakota State University, Fargo, North Dakota, USA;

Trinity University, San Antonio, Texas, USA

11:40 - 12:00pm: Relational Metrics Model for Software Configuration Management

Hassan Pournaghshband, Charles Donald Carson

Southern Polytechnic State University, Marietta, Georgia, USA

12:00 - 12:20pm: Modeling And SEF-Configuring SAAS Application

Nadir K. Salih

Harbin Institute of Technology, P. R. China

12:20 - 12:40pm: A Place for Everything and Everything in Its Place

Carlo Montangero, Laura Semini

Dipartimento di Informatica, Universita di Pisa, Italy

12:40 - 01:00pm: Architecture and Design of Corrosion Prediction Software Multicorp

Arkopaul Sarkar, Dusan Sormaz Ohio University, Athens, Ohio, USA

01:00 - 01:20pm: Formal Specification-Driven Development

Richard Rutledge, Sheryl Duggins, Dan Lo, Frank Tsui Georgia Institute of Technology, Atlanta, Georgia, USA; Southern Polytechnic State University, Marietta, Georgia, USA

01:20 - 02:00pm: LUNCH (On Your Own)

SESSION 13-EEE: LEARNING & TEACHING METHODS, E-LEARNING + EDUCATIONAL

TOOLS, & RELATED ISSUES

XXX Co-Chairs: Edmund Balogun; The City University of New York,

City College, New York, USA;

Dr. Reyna Carolina Medina-Ramirez; Metropolitan

Autonomous University (UAM-I), Mexico

July 24, 2014 (Thursday); 02:00pm - 04:20pm

(LOCATION: Sterling Room)

02:00 - 02:20pm: KumuCloud: A Cyber Learning Tool

Mehdi R. Zargham and M. R. Sayeh

Professor and Chair, Department of Computer Science,

University of Dayton, Dayton, Ohio, USA; Southern Illinois University, Illinois, USA

02:20 - 02:40pm: XXX FREE SLOT

02:40 - 03:00pm: In-Depth Assessment with Multiple Choice: The Reverse

Multiple-choice Method

Indu M. Anand

Sushila Publications, Chelmsford, Massachusetts, USA

03:00 - 03:20pm: BREAK

03:20 - 03:40pm: The Development Of Technology Of Creation and Optimum Planning

And Distribution Of Resources of Integrated Educational Portal

Seilkhan Boranbayev, Bahtiyar Mukashev, Askar Boranbayev,

and Sanzhar Altayev

L.N. Gumilyov Eurasian National University, Kazakhstan;

Nazarbayev University, Kazakhstan

03:40 - 04:00pm: E-Learning Through Social Networking Sites-Case Study Facebook

Karim Hadjar, Khaled Riad Hammoud Ahlia University, Al Manama, Bahrain

04:00 - 04:20pm: XXX FREE SLOT

04:20 - 04:40pm: FREE SLOT

04:40 - 05:00pm: FREE SLOT