

ERSA'13 CONFERENCE SCHEDULE

The 2013 International Conference on Engineering of Reconfigurable Systems and Algorithms

There are a number of other sessions (not listed as part of ERSAs'13 in this schedule) that are of potential interest to ERSAs'13 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 PDPTA'13, ESA'13, CDES'13, ICWN'13, and SAM'13 conferences discuss topics that are within the scope of ERSAs'13; these have been scheduled so that selected ERSAs'13 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.

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03:00 - 09:00pm: REGISTRATION (LOCATION: Cohiba 5)

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6:30am - 5:00pm: REGISTRATION (LOCATION: Cohiba 5)

08:30 - 08:45am: Congress Opening Remarks - July 22, Monday:  
Professor Hamid R. Arabnia (Chair, Steering Committee & Coordinator)  
University of Georgia, Georgia, USA  
(LOCATION: Tropicana Theater)

08:50 - 09:45am: Keynote Lecture 1 - July 22, Monday:  
Accessing and Computing Meaning  
Professor Victor Raskin  
Distinguished Professor of English and Linguistics and  
Professor of  
Computer Science (courtesy), Purdue University, Indiana, USA  
(LOCATION: Tropicana Theater)

09:55 - 10:50am: Keynote Lecture 2 - July 22, Monday:  
Visualization and Data Mining for High Dimensional Datasets  
Professor Alfred Inselberg  
Professor, School of Mathematical Sciences, Tel Aviv  
University,  
Inventor  
author  
of textbook "Parallel Coordinates: VISUAL Multidimensional  
Geometry",  
(praised by Stephen Hawking among others.)  
(LOCATION: Tropicana Theater)

11:00 - 11:40am: Keynote Lecture 3 - July 22, Monday:  
How Intellectual Property is Changing the Global Economic  
Landscape,  
and what Universities and Companies Must Do to Prepare

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Dr. Sandeep Chatterjee  
Chief Executive Officer (CEO), Shuv Gray LLC, USA;  
Named Young Global Leader for 2011 by the world Economic Forum

for

his "professional accomplishments, commitment to society and

potential

to contribute to shaping the future of the world."  
(LOCATION: Tropicana Theater)

11:45 - 11:55am: Announcement; Information talk - July 22, Monday:  
Directory of Published Papers - a database  
Laurance Baschkin  
InterDok Media Services, USA  
(LOCATION: Tropicana Theater)

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

01:00 - 01:20pm: OPENING REMARKS  
Dr. Toomas P. Plaks, UK; ERSA Chair and  
Prof. William H. Robinson, Vanderbilt University, USA  
(LOCATION: Partagas 1)

SESSION A:  
01:20 - 02:20pm: ERSA'13 - INVITED TALK/LECTURE:  
Reconfigurable Addressing the Challenges of Hardware Assurance in  
Systems  
William H. Robinson, Trey Reece, Nihaar N. Mahatme  
Security and Fault Tolerance (SAF-T) Research Group,  
Department of EEC, Vanderbilt University, Nashville, TN, USA  
(Moderator: Qian Zhao, Kumamoto University, Japan)  
(LOCATION: Partagas 1)

SESSION B:  
ERSA-NVIDIA Awards  
NOMINEES PRESENTATIONS  
Chair: Prof. William H Robinson, Vanderbilt Univ. USA  
July 22, 2013 (Monday); 02:20pm - 04:00pm  
(LOCATION: Partagas 1)

02:20 - 03:00pm: "Bastet" Subsurface Detection Air Vehicle  
Ahmed Hassan and Mohammed Gouda  
Bastet, Egypt; iITC, Sweden

03:00 - 03:20pm: BREAK

03:20 - 04:00pm: A Novel Parallel Computing Approach for Motion Estimation  
Based  
on Particle Swarm Optimization  
Manal K. Jalloul  
American University of Beirut, Beirut, Lebanon

SESSION C:  
COMMUNICATION TECHNIQUES IN RECONFIGURABLE SYSTEMS  
Chair: Qian Zhao, Kumamoto University, Japan  
July 22, 2013 (Monday); 04:00pm - 04:40pm  
(LOCATION: Partagas 1)

04:00 - 04:20pm: Hardware Parallel Decoder of Compressed HTTP Traffic on  
Service-oriented Router  
Daigo Hogawa, Shin-ichi Ishida, Hiroaki Nishi  
Department of Science and Technology, Keio University, Japan

04:20 - 04:40pm: Simplifying Microblaze to Hermes NoC Communication Through  
Communication Through Generic Wrapper  
Andres Benavides, Byron Buitrago, Johnny Aguirre  
University of Antioquia, Colombia

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SESSION D: DISCUSSION SESSION AND SHORT PAPERS:  
COMMUNICATION TECHNIQUES IN RECONFIGURABLE SYSTEMS  
Chair: Qian Zhao, Kumamoto University, Japan  
July 22, 2013 (Monday); 04:40pm - 06:00pm  
(LOCATION: Partagas 1)

04:40 - 05:00pm: An Area-Efficient Asynchronous FPGA Architecture for  
Handshake-Component-Based Design  
Yoshiya Komatsu, Masanori Hariyama, Michitaka Kameyama  
Graduate School of Information Sciences, Tohoku University,  
Japan

+  
Implementing Alamouting 2x1 Transmit Diversity on Software  
Defined Radios  
Anaam Ansari and Robert Morelos Zaragoza  
San Jose State University, California, USA

05:00 - 06:00pm: DISCUSSION SESSION

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

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER / SOCIAL  
July 22 - Monday; 09:00pm - 11:45pm  
(LOCATION: Pavilion)

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6:45am - 5:00pm: REGISTRATION (LOCATION: Cohiba 5)

SESSION E: DEVELOPING RECONFIGURABLE HETEROGENEOUS SYSTEMS  
Chair: Prof. William H Robinson, Vanderbilt Univ. USA  
July 23, 2013 (Tuesday); 08:00am - 08:40am  
(LOCATION: Partagas 1)

08:00 - 08:20am: Heuristically Driven Task Agglomeration in Limited Resource  
Partially Reconfigurable Systems  
David Austin and B. Earl Wells  
Department of Electrical and Computer Engineering, University  
of Alabama in Huntsville, Alabama, USA

08:20 - 08:40am: An Automatic Design and Implementation Framework for  
Reconfigurable Logic IP Core  
Qian Zhao, Motoki Amagasaki, Masahiro Iida, Morihiro Kuga,  
and Toshinori Sueyoshi  
Graduate School of Science and Technology, Kumamoto  
University, Japan

SESSION F: DISCUSSION SESSION AND SHORT PAPERS:  
DEVELOPING RECONFIGURABLE HETEROGENEOUS SYSTEMS  
Chair: Prof. William H Robinson, Vanderbilt Univ. USA  
July 23, 2013 (Tuesday); 08:40am - 10:20am  
(LOCATION: Partagas 1)

08:40 - 09:00am: Types, Signatures, Interfaces, and Components in NOOP: The  
core  
of an adaptive run-time  
Anders Andersen  
University of Tromso, Norway

+

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and

Heterogeneous Multicore Platform with Accelerator Templates

Its Implementation on an FPGA with Hard-core CPUs  
Yasuhiro Takei, Hasitha Muthumala Waidyasooriya, Masanori

Hariyama,

and Michitaka Kameyama  
Tohoku University, Japan

+  
On-demand Fault Scrubbing Using Adaptive Modular Redundancy  
Naveed Imran, Rizwan A. Ashraf, Ronald F. DeMara  
University of Central Florida (UCF), Florida, USA

and

+  
Reducing Floating-Point Error Based on Residue-Preservation

Its Evaluation on an FPGA  
Hasitha Muthumala Waidyasooriya, Hirokazu Takahashi, Yasuhiro

Takei,

Masanori Hariyama, Michitaka Kameyama  
Tohoku University, Japan

+  
Accelerating Real-time LiDAR Data Processing Using GPUs  
Vivek Venugopal and Suresh Kannan  
United Technologies Research Center, USA

09:00 - 10:00am: DISCUSSION SESSION

10:00 - 10:20am: CLOSING REMARKS  
Dr. Toomas P. Plaks, UK; ERSa Chair  
Prof. William H Robinson, Vanderbilt Univ. USA  
(LOCATION: Partagas 1)

10:20 - 11:00am: POSTER/DISCUSSION SESSION  
July 23, 2013 (Tuesday)  
(LOCATION: Cohiba 8-9)

11:00 - 05:00pm: During this period, ERSa attendees are encouraged to  
participate in sessions belonging to PDPTA'13, ESA'13, CDES'13, ICWN'13,  
and SAM'13 conferences. These sessions discuss topics that  
significantly overlap the scope of ERSa'13.

06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS  
(Please see the lists at the beginning of this book)

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08:00a - 05:40p: For today, ERSa attendees are encouraged to participate in  
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06:00 - 09:00pm: TUTORIALS + PANEL DISCUSSIONS  
(Please see the lists at the beginning of this book)

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