

Call for Papers

2nd Eastern European Regional Conference on the Engineering of Computer Based Systems (ECBS-EERC 2011)

with the technical co-sponsorship of the IEEE Computer Society and IEEE TC on ECBS

www.ecbs-eerc.org

September 5–6, 2011

Bratislava, Slovakia

Hosted by the Slovak University of Technology in Bratislava

“Setting New ECBS Frontiers...”



ECBS-EERC was established at 15th IEEE International Conference on Engineering of Computer-Based Systems (ECBS 2008) in Belfast, Northern Ireland, to bring the spirit of ECBS into Eastern Europe by providing convenient conference opportunities in this region. Conference proceedings are published on a CD and stored in the IEEE CS Digital Library. A selection of outstanding papers presented at the conference may be invited for publication in an internationally recognized journal (subject to additional reviewing).

ECBS-EERC 2011 is the 2nd formal IEEE sponsored meeting dedicated to formulating and advancing methods, techniques and tools for the engineering of computer-based systems in the Eastern European Region. The conference is devoted to the design, development, deployment, and analysis of complex systems whose behavior is largely determined or controlled by computers. Such systems are characterized by functional, performance, and reliability requirements that mandate the tight integration of information processing and physical processes.

ECBS integrates software, hardware, and communication perspective of system engineering through its many facets that include system modeling, requirements specification, simulation, architectures, safety, security, reliability, human–computer interaction, system integration, verification and validation, and project management. The conference provides a bridge between industry and academia blending academic research and industrial development.

Papers are sought which reflect this intent in fundamental ECBS technologies and application domains including, but not limited to the following topics:

- Adaptive Computing
- Agile Development
- Architectures
- Aspect-Oriented Software Development
- Autonomic Systems
- Co-Design
- Component-Based System Design
- Design Evolution
- Distributed Systems Design
- ECBS Infrastructure (Tools and Environments)
- Education & Training
- Embedded Real-Time Software Systems
- Integration Engineering
- Lifecycle Processes & Process Evolution
- Model-Based System Development
- Modeling and Analysis of Complex Systems
- Open Systems
- Product Lines
- Reengineering & Reuse
- Reliability, Safety, Dependability, and Security
- Requirements Engineering
- Standards
- Systems on a Chip
- System Assessment, Testing, and Metrics
- Verification & Validation

Industrial reports of practical solutions, trends, and new system characteristics for ECBS, taking an integrated systems approach, may include application domains such as: Aerospace Systems, Command and Control, Continuous and Discrete Manufacturing, Environmental Systems, Instrumentation and Control Applications, Internet Technology and Applications, Intelligent Highway-Vehicle Systems (IHVS), Medical Systems, and Telecommunications.

SUBMISSION OF PAPERS

Full papers should not exceed 10 pages (at least 6 pages are expected). Industrial reports should not exceed 4 pages (at least 2 pages are expected). Poster abstracts should be on 2 full pages. All papers must be prepared in the IEEE Computer Society format (see the conference web site for further information). Papers should be original contributions not submitted or accepted for publication elsewhere. For an accepted paper to appear in the proceedings, at least one author must register and attend the conference.

IMPORTANT DATES

Submission of abstracts	12 March 2011
Submission of papers	12 April 2011
Notification of acceptance	12 May 2011
Final paper submission deadline	10 June 2011
Registration deadline for authors	10 June 2011
Early registration deadline for non-authors	08 August 2011

ORGANIZATION

Chairs

General Chair: Valentino Vranic
Program Chair: Miroslav Popovic
Program Co-Chair: Valentino Vranic
Financial Chair: Tibor Krajcovic

Steering Committee

Roy Sterritt, IEEE ECBS TC Chairman
Byron Purves, IEEE ECBS TC member
Miroslav Sveda, IEEE ECBS TC member
John Leaney, IEEE ECBS TC member
Miodrag Temerinac, ECBS-EERC 2009 General Chair

Programme Committee

Andreas Heinecke, University of Leipzig, Germany
Armin Eberlein, University of Calgary, Canada
Azzelarabe Taleb-Bendiab, Liverpool John Moores University, UK
Ben Abott, AOL, USA
Bernhard Grone, SAP AG, Walldorf, Germany
Bernhard Schatz, Technical University Munich, Germany
Brandon Eames, Utah State University, USA
Byron Purves, Boeing, USA
Christian Erfurth, University of Applied Sciences Jena, Germany
Claudio Talarico, Eastern Washington University, USA
Constanta Bodea, Academy of Economic Studies, Romania
Cristina Seceleanu, Malardalen University, Sweden
Darren Dalcher, University of Middlesex, UK
David Bustard, University of Ulster, UK
Des Greer, Queen's University, Belfast, UK
Dragan Kukolj, University of Novi Sad, Serbia
Dragos Turscan, ABO Academy, Finland
Dumitru Burdescu, University of Craiova, Romania
Elena Navarro Martinez, University of Castilla-La Mancha, Spain
Fernando Barros, University of Coimbra, Portugal
Fionn Murtagh, Royal Holloway, University of London, UK
Haider Abbas, Royal Institute of Technology, Sweden
Heinz Zullighoven, University of Hamburg, Germany
Hui Wang, University of Ulster, UK
Ilija Basicovic, University of Novi Sad, Serbia
Ivan Polasek, Slovak University of Technology in Bratislava, Slovakia
Jan Lang, Slovak University of Technology in Bratislava, Slovakia
Jiang Guo, California State University Los Angeles, USA
Johannes Sametinger, Johannes Kepler University Linz, Austria
John Leaney, University of Technology, Sydney, Australia
Jovan Djordjevic, University of Belgrade, Serbia
Juan Garbajosa Sopena, University of Madrid, Spain
Malcolm Munro, University of Durham, UK
Matthias Galaster, University of Calgary, Canada
Matthias Riebesch, Ilmenau Technical University, Germany
Mia Siddique, University of Ulster, UK
Michael Lang, University of Galway, Ireland
Mihajlo Katona, University of Novi Sad, Serbia

Miroslav Popovic, University of Novi Sad, Serbia
Miroslav Sveda, Brno University of Technology, Czech Republic
Nikola Bogunovic, University of Zagreb, Croatia
Ondrej Rysavy, Brno University of Technology, Czech Republic
Pearl Brereton, University of Keele, UK
Peter Tabeling, Intervista AG, Germany
Reuven Gallant, Jerusalem College of Technology, Israel
Rob Pooley, Herriot-Watt University, UK
Roman Lysecky, University of Arizona, USA
Ryszard Klempous, Wroclaw University of Technology, Poland
Susan Lysecky, University of Arizona, USA
Tiberiu Seceleanu, ABB Corporate Research, Sweden
Tibor Krajcovic, Slovak University of Technology in Bratislava, Slovakia
Tihamer Levendovszky, Vanderbilt University, USA
Tim O'Neill, University of Technology, Sydney, Australia
Valentino Vranic, Slovak University of Technology in Bratislava, Slovakia
Wilhelm Rossak, Friedrich Schiller University Jena, Germany

Local Organizing Committee

Ivan Polasek, Slovak University of Technology in Bratislava, Slovakia
Jan Lang, Slovak University of Technology in Bratislava, Slovakia
Ladislav Borzensky, Slovak University of Technology in Bratislava, Slovakia

