PSI 17

CALL FOR PAPERS — Moscow, Russia

A.P. Ershov Informatics Conference — June 26-29, 2017

A.P. Ershov Informatics Conference (the PSI Conference Series, 11th edition) is the premier international forum in Russia for research and applications in Computer Science (CS) and Software Engineering (SE). PSI is held regularly since 1991. The conference brings together academic and industrial researchers, developers and users to discuss the most recent topics in the field. PSI provides an ideal venue for setting up research collaborations between the growing Russian CS/SE researcher community and its international counterparts, as well as between established scientists and younger researchers. PSI is governed by International Steering and Programme Committees.

PSI Proceedings are published by Springer in the Lecture Notes in Computer Science series (LNCS).

Conference Chairs

Dines Bjørner, Technical University of Denmark, Denmark;
Victor Ivannikov, Institute for System Programming, Russian Academy of Sciences, Russia.

Steering Committee

Igor Agamirzian, National Research University – Higher School of Economics, Russia;
Nicolas Bjørner, Microsoft Research, USA;
Alexander Marchuk, Institute of Informatics Systems, Russian Academy of Sciences, Russia;
Bertrand Meyer, ETH Zurich, Switzerland;
Vladimiro Sassone, University of Southampton, UK.

Organizing Committee Chairs

Ivan Arzhantsev, National Research University – Higher School of Economics, Russia;
Arutyun Avetisyan, Institute for System Programming, Russian Academy of Sciences, Russia.

Programme Committee Chairs

Alexander K. Petrenko, Institute for System Programming, Russian Academy of Sciences, Russia.
Andrei Voronkov, the University of Manchester, UK.

Confirmed Keynote Speakers

Michael Gerard Hinchey, Lero, Ireland
"Building Resilient Space Exploration Systems";
Sriram Rajamani, Microsoft Research India Lab, India
"Trusted Cloud: How to Make the Cloud More Secure";
Andrei Sabelfeld, Gothenburg University, Sweden
"Taint Tracking without Tracking Taints".

Important dates

- *January 20, 2017*: abstract submission;
- *February 1, 2017*: submission deadline;
- *April 1, 2017*: notification of acceptance;
- *June 26–29, 2017*: the conference dates;
- *September 1, 2017*: camera ready papers due.

Conference Topics

1. Foundations of Program and System Development and Analysis

- Specification, validation, and verification techniques;
- Program analysis, transformation and synthesis;
- Semantics, logic and formal models of programs;
- Partial evaluation, mixed computation, abstract interpretation, compiler construction;
- Theorem proving and model checking;
- Concurrency theory;
- Static program analysis;
- Modeling and analysis of real-time and hybrid systems;
- High performance computing.

2. Programming Methodology and Software Engineering

- Object-oriented, aspect-oriented, component-based and generic programming;
- Program and system construction for parallel and distributed computing;
- Constraint programming;
- Multi-agent technology;
- System re-engineering;
- Reuse and Product lines;
- Integrated programming environments;
- Software architecture;
- Software development and testing;
- Model-driven system/software development;
- Software engineering methods and tools;
- Service engineering, service oriented architecture;
- Cloud computing;
- Reverse engineering;
- Software metrics, aging and reliability models and countermeasures;
- Program understanding.

3. Information Technologies

- Data models;
- Database and information systems;
- Data mining, analytics;
- Knowledge-based systems and knowledge engineering;
- Ontologies and semantic Web;
- Digital libraries, collections and archives, Web publishing.

Conference web-site
psi.ispras.ru

Questions and further information
psiconf2017@gmail.com