

# Call for Papers

## The Fourteenth International Workshop on Assurance in Distributed Systems and Networks (ADSN2015)

Columbus, Ohio, USA June 29, 2015 - July 2, 2015

Sponsored by the IEEE Computer Society Technical Committee on Distributed Processing in cooperation with the IEICE Communications Society Technical Committee on Information Networks and the IEICE Information and Systems Society Technical Committee on Dependable Computing (approval pending)

ADSN 2015 will be held in conjunction with the 35th International Conference on Distributed Computing Systems (ICDCS 2015), Columbus, Ohio, USA, June 29, 2015 - July 2, 2015. (see for detail <http://icdcs-2015.cse.ohio-state.edu/> ).

ADSN 2015 is the fourteenth edition of this International Workshop demonstrating its long-term continuity and continuously received recognition. The objective of the Workshop is to provide an effective forum for original scientific and engineering advances in Assurance in Distributed Systems and Networks. Along with recent rapid growth of the Internet and ubiquitous networks, applications for autonomous decentralized systems are emerging in many important areas like transportation, automotive systems, smart energy grids and E-commerce to name a few. In these distributed systems and networks, heterogeneous requirements are independently generated and the requirements themselves are frequently changing. Assurance in these distributed systems and networks is defined as capability of guaranteeing functional and non-functional system properties such as dependability, security, timeliness and adaptivity to heterogeneous and changing requirements. The workshop theme is critical in meeting ever more demanding requirements for assurance in systems and networks. Technologies supporting assurance including integration of various fields such as real time, fault tolerance, autonomy, mobility and intelligence will have to be incorporated in complex distributed systems and networks.

Topics of interest for this workshop include, but are not limited to:

- Assurance technologies for new generation networks
- Assurance in cooperative embedded, grid, and cloud computing systems
- Assurance in service-oriented and web-service based computing systems
- Heterogeneous systems coexistence and consistency technologies
- Network control (QoS, QoE, CoS, etc) technologies for assurance
- Self-stabilization and sensor networks assurance
- Real-time technology assurance
- Agents technologies for assurance
- Assurance in safety-critical automotive and avionic systems
- Software and hardware technologies for assurance in intelligent transportation systems, train control, and space computers
- System life-cycle assurance in specification, design, implementation, testing, verification, and validation
- Security technologies for assurance
- System management and proactive fault management technologies for assurance
- Technologies for achieving high assurance in complex systems

### Papers and Submissions

Papers must be written in English, and they have to be Postscript, PDF, or Word format. The complete manuscript should be no more than 6 pages following IEEE conference proceedings style and guidelines. The following information must be provided on a cover sheet:

- (1) paper title, full name, affiliation of the author(s)
- (2) full name, affiliation, complete address, phone and fax numbers and email address of the author to be contacted, as well as
- (3) an abstract (up to 150 words).

All paper submissions will be handled electronically by the EasyChair conference management system. Papers should be submitted via the EasyChair ADSN2015 page:

<https://www.easychair.org/conferences/?conf=adsn2015>

Authors are expected to present their paper at the workshop. At least one author of each paper must register for ICDCS to be included in the workshop program.

### Important Dates

Deadline for submission: ~~January 12, 2015~~ **February 12, 2015 (Extended)**  
Acceptance notification: March 23, 2015  
Final Manuscript Due: April 15, 2015

#### General Chair

Mirosław Malek, University of Lugano, Switzerland

#### Vice Chair

Yoshiaki Kakuda, Hiroshima City University, Japan

#### Program Chair

Chin-Tser Huang, University of South Carolina, USA

#### Vice Program Chairs

Yukikazu Nakamoto, University of Hyogo, Japan

Alexander Romanovsky, University of Newcastle, UK

Matti Hiltunen, AT&T Labs – Research, USA

#### Program Committee

Masaki Aida, Tokyo Metropolitan University, Japan

Robin Berthier, University of Illinois at Urbana-Champaign, USA

Jorge Cobb, The University of Texas at Dallas, USA

Eliás Duarte, Federal University of Paraná, Curitiba, Brazil

Paul Ezhilchelvan, Newcastle University, UK

Felicita Di Giandomenico, ISTI-CNR, Italy

Mina Giurguis, Texas State University, USA

Karl M. Goeschka, TU University, Austria

Aniruddha Gokhale, Vanderbilt University, USA

Anatoliy Gorbenko, National Aerospace University, Ukraine

Eitaro Kohno, Hiroshima City Univ., Japan

Sandeep Kulkarni, Michigan State University, USA

Istvan Majzik, Budapest University of Technology and Economics, Hungary

Yoshifumi Manabe, Kougakuin Univ., Japan

Hidenori Nakazato, Waseda Univ., Japan

Marta Patiño-Martínez, Universidad Politécnica de Madrid, Spain

Karthik Pattabiraman, University of British Columbia, Vancouver, Canada

Krerk Piromsopa, Chulalongkorn University, Thailand

Elena Troubitsyna, Aabo Akademi, Finland

Tatsuhiko Tsuchiya, Osaka University, Japan

Marco Vieira, University of Coimbra, Portugal

Xin Wang, Fudan University, China

Yufeng Wang, Nanjing Univ. of Posts and Telecommunications, China

Chuck Weinstock, Software Engineering Institute - Carnegie Mellon University, USA

Hirozumi Yamaguchi, Osaka University, Japan