

# Call for Papers

## The Fifteenth International Workshop on Assurance in Distributed Systems and Networks (ADSN2016)

Nara, JAPAN June 27 - 30, 2016

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 2016 will be held in conjunction with the 36th International Conference on Distributed Computing Systems (ICDCS 2016), Nara, JAPAN, June 27 - 30, 2016. (see for detail <http://www.higashi.ist.osaka-u.ac.jp/icdcs2016/> ).

ADSN 2016 is the fifteenth 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 system. Papers should be submitted via EasyChair system.

<https://easychair.org/conferences/?conf=adsn2016>

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 15, 2016~~ **February 19, 2016** (extended)  
Acceptance notification: ~~March 1, 2016~~ March 21, 2016  
Final Manuscript Due: April 28, 2016

#### General Chair

Mirosław Malek, University of Lugano, Switzerland

#### Vice Chair

Yoshiaki Kakuda, Hiroshima City University, Japan

#### Program Chair

Yukikazu Nakamoto, University of Hyogo, Japan

#### Vice Program Chairs

Chin-Tser Huang, University of South Carolina, USA

Junichi Funasaka, Hiroshima City University, Japan

Alexander Romanovsky, University of Newcastle, UK

#### Program Committee

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

Masaki Aida, Tokyo Metropolitan University, Japan,

Andrea Ceccarelli, University of Florence, Italy

Jorge Cobb, The University of Texas at Dallas, USA

Elias Duarte, Federal University of Paraná, Brazil

Mina Giurguis, Texas State University, USA

Karl M. Goeschka, TU University, Vienna, Austria

Anatoliy Gorbenko, National Aerospace University, Kharkiv, Ukraine

Dong Seong Kim, Canterbury University, New Zealand

Eitaro Kohno, Hiroshima-city Univ. Sandeep Kulkarni, Michigan State University, USA

Istvan Majzik, Budapest University of Technology and Economics, Budapest, Hungary

Yoshifumi Manabe, Kougakuin Univ., Japan,

Marta Patiño-Martínez, Universidad Politécnica de Madrid, Madrid, Spain

Hidenori Nakazato, Waseda University, Japan

Kazuya Sakai, Tokyo Metropolitan University, Japan

Francois Taiani, IRISA/INRIA, Rennes, France

Elena Troubitsyna, Aabo Akademi, Turku, Finland

Tatsuhiro Tsuchiya, Osaka University

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

Marco Vieira, University of Coimbra, Coimbra, Portugal

Xin Wang, Fudan University, China

Chuck Weinstock, Carnegie Mellon University, USA

Hirozumi Yamaguchi, Osaka University, Japan