

Call for Papers

The Seventeenth International Workshop on Assurance in Distributed Systems and Networks (ADSN 2018)

Guangzhou, China, October 8 - 12, 2018

Sponsored by the IEEE Computational Intelligence Society Smart World Technical Committee 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 2018 will be held in conjunction with the 15th International Conference on Advanced and Trusted Computing (ATC 2018), Guangzhou, China, October 8 - 12, 2018. (see for details <http://www.smart-world.org/2018/atc/>).

ADSN 2018 is the seventeenth 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 the Internet of Things (IoT) 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 adaptability in heterogeneous and changing environments. 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
- Critical infrastructure protection
- Heterogeneous systems coexistence and consistency technologies
- Network control (QoS, QoE, CoS, etc) technologies for assurance
- Self-stabilization and sensor networks 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
- Assurance in IoT systems
- 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 <https://easychair.org/conferences/?conf=adsn2018>.

Important Dates

Paper Submission Deadline (extended): May 21, 2018

Acceptance Notification Date: July 1, 2018

Camera-ready deadline: August 8, 2018

General Co-Chairs

Tomohiro Otani,
KDDI Research, Inc.,
Japan

Yoshiaki Kakuda,
Hiroshima City University,
Japan

Program Chair

Yukikazu Nakamoto,
University of Hyogo,
Japan

Vice Program Chairs

Junichi Funasaka,
Hiroshima City
University, Japan

Elisa Bertino,
Purdue University,
U.S.A.

Felicita Di Giandomenico,
ISTI-CNR,
Italy

Program Committee

Masaki Aida, Tokyo
Metropolitan University, Japan

Emmanuelle Anceaume,
CNRS / IRISA, France

Davide Basile, University of
Florence, Italy

Shuo Chen, Microsoft, USA

Jorge Cobb, The University of
Texas at Dallas, USA

Elias Duarte, Federal
University of Parana, Brazil

Aniruddha Gokhale,
Vanderbilt University, USA

Anatoliy Gorbenko, National
Aerospace University "KhAI",
Ukraine

Eitaro Kohno, Hiroshima City
University, Japan

Yoshifumi Manabe, Kogakuin
University, Japan

Nuno Neves, Universidade de
Lisboa, Portugal

Harigovind Ramasamy, IBM,
USA

Alexander Romanovsky,
Newcastle University, UK

Elena Troubitsyna, Åbo
Akademi, Finland

Tatsuhiro Tsuchiya, Osaka
University, Japan

Marco Vieira, University of
Coimbra, Portugal

Yufeng Wang, Nanjing
University of Posts and
Telecommunications, China

Katinka Wolter, FU Berlin,
Germany