

# Call for Papers

## General Chair

Yukikazu Nakamoto,  
University of Hyogo, Japan

## Program Chair

Junichi Funasaka,  
Hiroshima City University,  
Japan

## Vice Program Chairs

Eiji Utsunomiya, KDDI  
Research, Inc., Japan

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

Marcello Cinque, Federico  
II University of Naples,  
Italy

## Program Committee

Masaki Aida, Tokyo  
Metropolitan University,  
Japan

Nuno Antunes, University  
of Coimbra, Portugal

Antonio Casimiro, Univ. of  
Lisbon, Portugal

Andrea Ceccarelli,  
University of Florence, Italy

Elena Ferrari, Univ. Insubria,  
Italy

Aniruddha Gokhale,  
Vanderbilt University, USA

Anatoliy Gorbenko, Leeds  
Beckett Univ., UK

Yoshifumi Manabe,  
Kogakuin University, Japan

Giulio Masetti, ISTI-CNR,  
Italy

Yutaka Miyake, KDDI  
Research, Inc., Japan

Tatsuhiko Tsuchiya, Osaka  
University, Japan

Changda Wang, Jiangsu  
University, China

Katinka Wolter, FU Berlin,  
Germany

## The Twentieth International Workshop on Assurance in Distributed Systems and Networks (ADSN 2022)

Calabria, Italy, September 12 - 15, 2022

ADSN 2022 will be held in conjunction with the 20th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2022), September 12 – 15, 2022. (see for details <http://cyber-science.org/2022/dasc/>).

ADSN 2022 is the twentieth 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. <https://easychair.org/conferences/?conf=dascpicomcbdcomecyber> (Please select the track “DASC / 20th International Workshop on Assurance in Distributed Systems and Networks” on this EasyChair page.)

## Important Dates

Paper Submission Deadline: ~~June 1, 2022~~ **June 15, 2022 (extended)**

Acceptance Notification Date: July 1, 2022

Camera-ready deadline: July 15, 2022