

The 16th IEEE International Conference on Dependable, Autonomic and Secure Computing (DASC 2018)

Athens, Greece, Aug 12-15, 2018



Explore the Best Greece Islands

ORGANIZING COMMITTEE

General Chairs

Md Zakirul Alam Bhuiyan, Fordham University, USA
Stefanos Gritzalis, University of the Aegean, Greece

General Executive Chairs

Klimis Ntalianis, Athens U of Applied Sciences, Greece
Paulo Pires, Federal University of Rio de Janeiro, Brazil

Program Chair

Anna Kobusinska, Poznan University of Technology, Poland

Program Co-Chairs

Naohiro Hayashibara, Kyoto Sangyo University, Japan
Kambourakis Georgios, University of the Aegean, Greece
Tian Wang, Huaqiao University, China

Workshop/ Special Session Chairs

Konsts Lambrinouidakis, University of Piraeus, Greece
Al-Sakib Khan Pathan, Southeast University, Bangladesh
Tatsuhiko Tsuchiya, Osaka University, Japan

Demo/Poster/WiP Chairs

Taufiq Asyhari, Cranfield University, UK
Rukhsana Afroz Ruby, SIAT, China

Publicity Chairs

Wenjia Li, New York Institute of Technology, USA
Constantinos Patsakis, University of Piraeus, Greece
Kenichi Kourai, Kyushu Institute of Technology, Japan
Md. Arafatur Rahman, Univ Malaysia Pahang, Malaysia
Shaikh M Arifuzzaman, University of New Orleans, USA

Local Organizing Chair

Nikolaos Mastorakis, Hellenic Naval Academy, Greece

Advisory Committee Chairs

Nobuyasu Kanekawa, Hitachi, Ltd., Japan
Mohammed Atiquzzaman, University of Oklahoma, USA
Yi Pan, Georgia State University, USA

Steering Committee

Jianhua Ma (Chair), Hosei University, Japan
Laurence T. Yang (Chair), SFX University, Canada
Tadashi Dohi, Hiroshima University, Japan
Yuanshun Dai, Univ. of Electronic Sci. & Tech. of China
Stephen S. Yau, Arizona State University, USA

IMPORTANT DATES

Workshop/Special Session Proposal Due: Feb. 10, 2018
Paper Submission Due: Mar. 30, 2018
Demo/Poster/WiP Submission Due: April 30, 2018
Author Notification: May 20, 2018
Camera-ready Paper Due: June 15, 2018

SUBMISSION & PUBLICATION

Authors are invited to submit their original research work using IEEE CS Proceedings format via DASC 2018 website: <http://cyber-science.org/2018/dasc/sub/>.

Research paper (8 pages) should explore a specific technology problem and propose a complete solution to it, with experimental results. Work-in Progress (WiP) Papers (5~6 pages) and Demo/Poster papers (2~4 pages) must describe working systems within the scope of DASC. Workshop & Special Session papers (6 pages) need to be submitted to corresponding workshops & special sessions.

- Accepted papers will be included into the proceedings published by IEEE Computer Society Press (EI indexed).
- At least one of the authors of any accepted paper is required to register and present the paper at the conference.
- Extended versions of selected papers will be considered for fast-track publication in some prestige journals (SCI/EI indexed).

As computer systems become increasingly large and complex, their Dependability, Security and Autonomy play critical role at supporting next-generation science, engineering, and commercial applications. These systems provide computing services to large pools of users and applications, and thus are exposed to a number of dangers such as accidental/deliberate faults, virus infections, malicious attacks, illegal intrusions, natural disasters, etc. As a result, too often computer systems fail, become compromised, or perform poorly and therefore untrustworthy. Thus, it remains a challenge to design, analyze, evaluate, and improve the dependability and security for a trusted computing environment. Trusted computing targets computing and communication systems as well as services that are autonomous, dependable, secure, privacy protectable, predictable, traceable, controllable, assessable and sustainable.

The scale and complexity of information systems evolve towards overwhelming the capability of system administrators, programmers, and designers. This calls for the autonomic computing paradigm, which meets the requirements of self-management by providing self-optimization, self-healing, self-configuration, and self-protection. As a promising means to implement dependable and secure systems in a self-managing manner, autonomic computing technology needs to be further explored. Trusted and autonomic computing and communications need synergistic research efforts covering many disciplines, ranging from computer science and engineering, to the natural sciences and the social sciences. It requires scientific and technological advances in a wide variety of fields, as well as new software, system architectures, and communication systems that support the effective and coherent integration of the constituent technologies.

IEEE DASC 2018 will be held in August 12-15, 2018 in Athens, Greece, co-located with IEEE CyberSciTech 2018, IEEE DataCom 2018 and IEEE PiCom 2018 (*the event location is very close to the Parliament of Greece*). It aims to bring together computer scientists, industrial engineers, and researchers to discuss and exchange experimental and theoretical results, novel designs, work-in-progress, experience, case studies, and trend-setting ideas in the areas of dependability, security, trust and/or autonomic computing systems. Topics of particular interests include the following tracks, but are not limited to:

- Dependable, Autonomic, Secure Computing Systems, Architectures and Communications
- Cloud Computing and Fog/edge Computing with Autonomic and Trusted Environment
- Dependable Automatic Control Techniques and Systems
- Dependable Sensors, Devices, Embedded Systems
- Dependable Electronic-Mechanical Systems, Optic-Electronic Systems
- Self-improvement in Dependable Systems
- Self-healing, Self-protection and Fault-tolerant Systems
- Hardware and Software Reliability, Verification and Testing
- Software Engineering for Dependable Systems
- Safety-critical Systems in Transportation and Power System
- Security Models and Quantifications
- Trusted P2P, Web Service, SoA, SaaS, EaaS, and PaaS
- Self-protection and Intrusion-detection in Security
- DRM, Watermarking Technology, IP Protection
- Context-aware Access Control
- Virus Detections and Anti-Virus Techniques/Software
- Cyber Attack, Crime and Cyber War
- Human Interaction with Trusted and Autonomic Computing Systems
- Security, Dependability and Autonomic Issues in Ubiquitous Computing
- Security, Dependability and Autonomic Issues in Cyber-Physical System
- Security, Dependability and Autonomic Issues in Big Data, SDN, and IoT Systems
- QoS in Communications and Services and Service Oriented Architectures
- Information and System Security
- Reliable Computing and Trusted Computing
- Wireless Emergency and Security Systems
- Information Technology in Biomedicine
- Multimedia Security Issues over Mobile and Wireless Networks
- Multimedia in Mobile Computing: Issues, System Design and Performance Evaluation
- Software Architectures and Design for Emerging Systems
- Software Engineering for Emerging Networks, Systems, and Mobile Systems
- Evaluation Platforms for Dependable, Autonomic and Secure Computing Systems
- Trustworthy Data, Secured Data Collection System, Model, and Architectures