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The 17th IEEE Int'l Conference on Dependable, Autonomic and Secure Computing (DASC 2019)
August 5-8, 2019, Fukuoka, Japan

Sponsors **IEEE** IEEE computer society

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IMPORTANT DATES

Workshop/Special Session Proposal Due:	**Feb. 28, 2019**
Paper Submission Due (Extended to):	**Apr. 20, 2019**
Demo/Poster/WiP Submission Due:	**May 05, 2019**
Author Notification:	**May 25, 2019**
Camera-ready Paper Due:	**June 20, 2019**

SUBMISSION & PUBLICATION

Authors are invited to submit their original research work using IEEE CS Proceedings format via DASC 2019 website: http://cyber-science.org/2019/dasc/.

Research paper (8 pages) should explore a technology problem and propose a complete solution to it, with experimental results. Work-in Progress (WiP) Papers (4~6 pages) & 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 the corresponding workshops & special sessions.

- Accepted papers will be included into the proceedings published by IEEE CPS (EI indexed).
- At least one author 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, Autonomy, and Security 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 several dangers such as accidental/deliberate faults, virus infections, malicious attacks, illegal intrusions, natural disasters, etc. 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, architectures, and communication systems that support the effective and coherent integration of the constituent technologies.

IEEE **DASC 2019** will be held in August 5-8, 2019 in Fukuoka, Japan, co-located with IEEE **CyberSciTech 2019**, IEEE **PICom 2019**, and IEEE **CBDCom 2019**. 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 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
- Virus Detections and Anti-Virus Techniques/Software
- Cyber Attack, Crime and Cyber War
- Human Interaction with Trusted and Autonomic Computing Systems
- Biometric issue over Cloud, Context Aware Access Control and Mobile
- Security, Dependability and Autonomic Issues in Big Data, CPS, SDN and IoT
- 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 Systems, Models, and Architectures
- Smart City Security and Privacy Models and Architectures

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