Introduction

Computing systems are growing in capability and complexity including hardware, software, communications, networks, platforms, services, etc. Advanced computing aims to discover, develop, and deploy novel computing and networking systems. At the same time, computing must be trustworthy to engender confidence that systems will remain secure and available. Trust/distrust relationships embedded in computing systems and networks are key factors to enable dynamic interactions and cooperation of various users and services. Trusted computing aims at making these systems and services available, predictable, accountable, controllable, assessable, sustainable, dependable, persistent, and secure.

ATC conferences have taken a leading role in addressing these challenges and achieving practical advanced computing systems with truly trustworthy services. Started in 2005, the series of ATC conferences have been held at Nagasaki (Japan), Vienna (Austria), Three Gorges (China), Hong Kong (China), Oslo (Norway), Brisbane (Australia), Xi,ān (China), Banff (Canada), Fukuoka (Japan), Vietri sul Mare (Italy), Bali (Indonesia), Beijing (China), Toulouse (France), San Francisco Bay Area (USA), and Guangzhou (China). IEEE ATC 2019 will offer a forum for researchers to exchange ideas and experiences in the most innovative research, development and applications related to Advanced Computing and Trusted Computing.

The 16th IEEE International Conference on Advanced and Trusted Computing (IEEE ATC-19) will be held in Leicester, UK from August 19th to 23rd, 2019. Topics of interest include, but are not limited to:

- High Performance Computing and Networking
- Service Computing and Engineering
- Cloud Computing, Fog Computing and Edge Computing
- Software Defined Networks and Systems
- Green Computing and Communications
- Mobile and Wearable Computing
- Vehicular Networks and Systems
- IoT/IoE Technologies and Applications
- Big Data Analytics and Technologies
- Advanced Virtual/Augmented Reality (VR/AR)
- Advanced Cognitive Computing and Machine Learning
- Advanced Affective Computing and Robotics
- Adaptive and Intelligent Systems
- Trust Specifications, Models, Management, and Standards
- Trust, Security, and Privacy in Smart Systems
- Blockchain Technology and Applications
- Cyber Life, Society and Intelligence
- Cyber Physical Systems and Their Safety
- Cyber Trust, Security, Privacy and Ethics

Submissions
All papers need to be submitted electronically via the 2019 congress website. Accepted conference papers will be published by IEEE CPS (IEEE-DL and EI indexed) in Conference Proceedings. Best Paper Awards will be presented to high quality papers. Selected papers will be recommended to prestige journal special issues. Workshop and Special Session Proposals in the area of advanced and trusted computing are also encouraged.

**Special Session on**
Advanced and Trusted Models and Techniques for Fighting Fakes

**Important Dates**
- Workshop Proposal: December 31st, 2018
- Paper Submission Deadline: February 19th, 2019
- Authors Notification: April 19th, 2019
- Camera-ready Submission: May 19th, 2019

**General Chairs**
Zheng Yan, Xidian Univ. & Aalto Univ., China & Finland
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