

Call For Papers

The 24th IEEE International Conference on Ubiquitous Intelligence and Computing(HPCC-2022)

Special Session: Application Security of Artificial Intelligence and Edge/Fog Computing Technologies

With the standardization of AI systems, the research focus is shifting toward the potential the edge/fog computing based AI designs, application security, and performance targets for AI systems. To enable the future heterogeneous edge/fog services and AI applications, including fully Virtual Reality (VR) game, intelligent manufacturing, smart traffic and autonomous driving, the edge/fog computing and AI system need to provide high application security, unprecedented massive user access, heterogeneous data procession, reliability, high efficiency, and low latency services. However, the current AI systems architecture decouples computing at user terminals, mobile networks, and cloud/edge/fog, respectively. As a result, artificial intelligence is not effectively integrated with photoelectric technology and communication technology. This special session aims at bringing together recent advances on edge/fog computing network architecture, pervasive and collaborative AI algorithms, security and application issues. It welcomes original ideas and innovative approaches on network architectures, design methodologies, service schemes, AI algorithms, collaborative protocols, security and privacy, and practical systems from both academia and industry involving the interdisciplinary computer science.

This is a special session of the 24th IEEE International Conference on Ubiquitous Intelligence and Computing(<http://www.ieee-hpcc.org/2022/>). Please submit your paper via the submission site(<https://edas.info/N29969>) and select the special session of “Application Security of Artificial Intelligence and Edge/Fog Computing Technologies” marked with “**HPCC-ASAIE/FCT**”.

The topics of interests for this special issue include, but are not limited to:

- Design methodologies of edge/fog computing network AI architecture
- AI algorithms for radio frequency fingerprint identification
- Application security of edge/fog computing based AI infrastructure
- Security, privacy, availability, and reliability issues in edge/fog computing
- Security and privacy issues of intelligent manufacturing, smart traffic and other AI
- Edge /fog computing native applications
- Optical nondestructive measurement and signal recognition techniques from RF to spectrum

Session Chairs:

Songlin Chen, University of Electronic Science Technology of China, China,
songlinchen@uestc.edu.cn

Junqing Le, Chongqing University, China, junqingle@cqu.edu.cn

Important Dates

Paper Submission Due: 01 September, 2022

Acceptance Notification Due: 15 October, 2022

Final Manuscript Due: 10 November, 2022