

Workshop on System on a Chip (SOC) and Computer

Architecture

with CFP of 系統晶片與計算機結構

Call for papers

Aims and scope

The 2019 Workshop on Mobile Computing and Wireless Communications in conjunction with NCS (National Computer Symposium) 2019 will be held at National Quemoy University, Kinmen, Taiwan, from November 14-15, 2019. The main focus of the workshop will be on the novel proposal of techniques for system on a chip (SOC) and computer architecture. This workshop intends to provide a forum for researchers, educators, and professionals to summarize the most recent developments in the field.

Topic of Interests

Areas of interest include, but are not limited to, the following topics:

- Areas of interest include, but are not limited to, the following topics:
- Analog, mixed-signal and sensor architectures
- Digital architectures: NoC, multi-core, and reconfigurable
- CAD: Synthesis and analysis
- Prototyping, verification, modeling, and simulation
- Circuits and systems for signal processing and communications
- Embedded systems: Architecture, design, and software
- Low-power and thermal-aware IC design
- Emerging semiconductor technologies
- Variability, reliability, and test
- Hardware security
- Arduino and Raspberry Pi-based systems and related applications
- Application-specific systems
- Benchmarking, performance measurements, and analysis
- Cloud, Grid, cluster, and peer-to-peer systems
- Embedded and pervasive systems
- GPUs, FPGAs and other accelerator architectures
- High-performance system design for analytics and social networking

- Languages, compilers, and tools for parallel and distributed programming
- Modeling and simulation methodology
- Operating systems and virtualization
- Parallel and distributed systems, algorithms, and applications
- Power and energy-efficient systems
- Processor, cache, memory, storage, and network architecture
- Real-world applications and case studies
- Reconfigurable and fault-tolerant systems

Workshop Organizing Committees

Chair: Dr. Tso-Bing Juang/莊作彬 (國立屏東大學 資訊工程學系)

Vice-Chair: Dr. Chao-Tsung Kuo/郭昭宗 (國立金門大學 電子工程學系)

Program Committees

Dr. Ming-Chih Chen/陳銘志 (國立高雄第一科技大學 電子工程系)

Dr. Hung-Yu Wang/王鴻猷 (國立高雄應用科技大學 電子工程系)

Dr. (Shu-Chung Yi)/易昶霽 (國立彰化師範大學 資訊工程學系)

Dr. Jen-Yi Huang/黃振藝 (國立屏東大學 資訊工程學系)