Call for special session: Al-Enabled Hardware and System-on-Chip

The 5th International Conference on Multimedia Analysis and Pattern Recognition - MAPR 2022 cordially invites the researchers to submit your research articles for the special session: AI-Enabled Hardware and System-on-Chip.

Aims and Scope

Recently, multimedia analysis and pattern recognition algorithms, especially deep neural networks have played a critical role in the emergence of commercial AI applications. Deep neural networks were successfully implemented thanks to the increased computational capacity of modern computing hardware. AI-enabled Hardware and System-on-Chip is a new generation of hardware custom built for pattern recognition and multimedia analysis applications. AI-enabled Hardware and System-on-Chip will emerge at both data centers and the edge. AI accelerators for many AI applications are required on hardware to enhance and enable simultaneous computations. AI-related chips rely on hybrid CPU and Accelerator like CPU-GPU, CPU-DSP, CPU-GPU-FPGA and CPU-ASIC will constitute a significant portion of future demand to obtain high performance.

The scope of this session is limited to the following:

- Al for System-on-chip and LSI Design
- Processing hardware accelerators-based SoC
- High Speed and Low Power Circuits and Systems
- Low-power hardware design for low-power IoT systems
- Chip Security, Multiple Security Sensors and Intelligent Sensors for IoT Systems
- Computer Architecture, Simulation and Modeling
- Autonomous Mobile and Intelligent Robots

IMPORTANT DATES

- Paper submission deadline: July 25, 2022
- Acceptance notification: August 29, 2022
- Camera ready: September 13, 2022
- Conference dates: October 13-14, 2022

PAPER SUBMISSION AND PUBLICATION

Authors are invited to submit their papers with 6-page length including text, references, tables and figures in the IEEE standard template. Special session submissions are anonymous, and must conform to the instructions for double-blind review. The papers are submitted electronically through Easychair. Accepted papers will be submitted for inclusion into IEEE Xplore.

The papers are submitted electronically through Easychair https://easychair.org/my/conference?conf=mapr2022 - Special Session: AI-Enabled Hardware and System-on-Chip

CONTACT INFORMATION

Inquiries about the conference should be directed to: mapr@uit.edu.vn

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