

MCSoc 17th IEEE

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2nd Round Important Dates

- Paper submission: **October 15, 2024 (FIRM)**
- Acceptance notification: October 30, 2024
- Camera-ready paper: November 8, 2024
- Conference date: December 16-19, 2024

Submission System: <https://edas.info/N32038>

<https://www.mcsoc-forum.org>

2024



Kuala Lumpur, Malaysia, Dec 16-19, 2024

The 17th IEEE International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc-2024) aims to provide the world's premier forum of leading researchers in the Embedded Multicore/Many-core SoCs software, tools, and applications design areas for academia and industries. From the 2018 edition, the MCSoc symposium targets new emerging topics related to multicore neuro-inspired computing architectures and systems. Prospective authors are invited to submit their contributions. Submission of a contribution implies that at least one of the authors will have full registration to the symposium upon acceptance of their contribution. Submission can include technical, experimental, theoretical, conceptual, or a survey. ****The conference is a hybrid event****

Technical Tracks

- Embedded Multicore/Manycore SoC Programming
Chair: Trong-Thuc Hoang (UEC, Japan)
- Embedded Multicore/Manycore SoC Architectures
Chair: Yeong-Kang Lai (National Chung Hsing University, Taiwan)
- Embedded Multicore/Manycore SoC Design
Chair: Cristinel Ababei (Marquette Univ, U.S.A)
- Embedded Multicore/Manycore SoC Interconnection Networks
Chair: José L. Abellán (University of Murcia, Spain)
- Embedded Multicore/Manycore SoC Systems Testing, Security and Trust
Chair: Tanja Harbaum (Karlsruhe Inst. of Technology, Germany)
- Embedded Multicore/Manycore SoC Design Automation and Low-power Design
Chair: Stefan Holst (Kyushu Institute of Technology, Japan)
- Embedded Multicore/Manycore SoC Real-Time Systems
Chair: Yi-Chung Chen (Mediatek, U.S.A)
- Operating Systems Platforms for Real-Time Embedded Applications
Chair: Lei Yang (George Mason University, U.S.A)
- Embedded Multicore/Manycore SoC Applications
Chair: Farshad Firouzi (DU, USA), Bahar Farahani (SBU, Iran)
- Embedded Hardware Acceleration of AI on the Edge
Chair: Shaswot Shresthamali (Keio Univ, Japan), Po-Tsang Huang (NCTU, Taiwan)
- Machine Learning for Energy-efficient, High-Performance, and Reliable Manycore Systems and Interconnects
Chairs: Md. Farhadur Reza (Eastern Illinois University, U.S.A), Hanzhi Ma, Zhejiang Univ. China
- Chiplet-based Multicore Architecture and Design
Chair: Jason Eshraghian (UCSC, U.S.A), Darshika G. Perera (UCCS, U.S.A)

Special Sessions and Tracks

- Performance Optimization & Auto-Tuning of Software on Multicore/Manycore Systems
Chair: Norihisa Fujita (Tsukuba University, Japan)
- Emerging Machine Learning and Deep Learning Models: Theory & Applications
Chair: Jungpil SHIN (University of Aizu, Japan)
- Ubiquitous Networking and Immerging Applications
Chair: Yujie Li (Guilin University of Electronic Technology, China)
- Embedded Neuromorphic Computing Systems
Chair: Khanh Dang (The University of Aizu, Japan)
- Embedded, Applications and Ubiquitous Computing
Chair: Rize Jin (Tiangong University, China)
- Embedded Machine Learning and Data Analytics
Chairs: Kasem Khalil (University of Mississippi, USA), Qinglin Yang (SYSU, China)
- Embedded, Cyber-Physical, and IoT Systems
Chair: Liang Zhao (Shenyang Aerospace University, China)
- Embedded Biomedical Engineering
Chair: Xin Zhu (The University of Aizu, Japan)
- Machine Learning and Neuromorphic Computing for Edge and IoT
Chair: Anh Vu Doan (Infineon, Germany)
- Parallel/Distributed, Grid, and Cloud Computing
Chair: Zhishang Wang (The University of Aizu, Japan)
- Intelligent Mechatronics & Neuroprosthesis Technologies
Chair: Chun-Ming Huang (Taiwan Semiconductor Research Institute, Taiwan)
- Distributed Computing & Comm. Techniques for Emerging AI Applications
Chair: Haoli Zhao (Hebei University of Technology, China)
- Real-Time Natural Language Processing
Chairs: Mudar Sarem (Manara University, Syria), Li Ruixuan (Huazhong University of Science and Technology, China)
- Optical Communications, Devices and Networking
Chair: Guo-Wei Lu (Kyushu University, Japan)

Proceedings Publication and Indexing

The conference proceedings, including all technical tracks, special tracks, and special sessions and workshop papers, will be published by IEEE Conference Proceedings, which will be included in the Computer Society Digital Library CSDL and IEEE Xplore. All CPS conference publications are also submitted for indexing to EI's Engineering Information Index, Compendex, ISI Thomson's Scientific and Tech. Pro. Scopus, ISTP/ISI Proceedings.

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