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 SoC systems, 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 Design
  - Chair: Cristinel Ababei (Marquette Univ, U.S.A)
- Embedded Multicore/Manycore SoC Interconnection Networks
  - Chair: Jose 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)
- Machine Learning and Energy-efficient, High-Performance, and Reliable Manycore Systems and Interconnects
  - Chair: Md. Farhadur Reza (Eastern Illinois University, U.S.A)
- Chiplet-based Multicore Architecture and Design
  - Chair: Jason Estraghran (UCCS, U.S.A)

### Special Sessions and Tracks

- Performance Optimization & Auto-Tuning of Software on Multicore/Manycore Systems
  - Chair: Norihisa Fujito (Tsukuba University, Japan)
- Machine Learning and Deep Learning Models: Theory & Applications
  - Chair: Jungpill SHIN (University of Aizu, Japan)
- Ubiquitous Networking and Immersing Applications
  - Chair: Yujie Li (Guilin University of Electronic Technology, China)
- Embedded Neuromorphic Computing Systems
  - Chair: Khans Dang (The University of Aizu, Japan)
- Embedded, Applications and Ubiquitous Computing
  - Chair: Rize Jin (Tianqiong 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 (Infinence, Germany)
- Parallel/Distributed, Grid, and Cloud Computing
  - Chair: Zhishang Wang (The University of Aizu, Japan)
- Intelligent Mechatronics & Neuroprosthetics Technologies
  - Chair: Chun-Ming Huang (Taiwan Semiconductor Research Institute, Taiwan)
- Distributed Computing & Comm. Techniques for Emerging AI Applications
  - Chair: Haozi 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)

### Important Dates

- **Paper submission:** June 18, 2024 (FINAL)
- **Acceptance notification:** July 20, 2024
- **Camera-ready paper:** July 31, 2024
- **Conference date:** December 16–19, 2024

### Submission System

https://www.mcsoc-forum.org