

# MCSoc

15<sup>th</sup> Edition

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## Important Dates

- Abstract submission: July 31, 2022 (extended)
- **Full Paper submission: July 31, 2022 (HARD Deadline)**
- Acceptance notification: August 31, 2022
- Camera-ready paper: September 15, 2022
- Symposium date: December 19-22, 2022

Submission System: <https://edas.info/N29397>

[www.mcsoc-forum.org](http://www.mcsoc-forum.org)

# 2022

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The 15<sup>th</sup> IEEE International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc-2022) 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 a full registration to the symposium upon acceptance of his/her contribution. Submission can include, technical, experimental, theoretical, conceptual, or a survey.

## Technical Tracks

- Embedded Multicore/Manycore SoC Programming  
*Track Chair: Stéphane Louise (CEA, LIST, France)*
- Embedded Multicore/Manycore SoC Architectures  
*Track Chair: William J. Song (Yonsei Univ, Korea)*
- Embedded Multicore/Manycore SoC Design  
*Track Chair: Diana Göhringer (TUD, Germany), Cristinel Ababei (Marquette Univ, USA)*
- Embedded Multicore/Manycore SoC Interconnection Networks  
*Track Chair: José L. Abellán (UCAM, Spain)*
- Embedded Multicore/Manycore SoC Testing  
*Track Chair: Yeong-Kang Lai (NCHU, Taiwan)*
- Embedded Multicore/Manycore SoC Design Automation and Low-power Design  
*Track Chair: Fakhru Z. Rokhani (UPM, Malaysia)*
- Embedded Multicore/Manycore SoC Real-Time Systems  
*Track Chair: Yi-Chung Chen (SUNY, USA)*
- Operating Systems Platforms for Real-Time Embedded Applications  
*Track Chair: Tsung-Tai Yeh (NYCU, Taiwan)*
- Embedded Multicore/Manycore SoC Applications  
*Track Chair: Pei-Yin Chen (NCKU, Taiwan).*
- Hardware Acceleration of AI on the Edge  
*Track Chair: Po-Tsang Huang (NYCU, Taiwan)*
- Embedded Neuromorphic Computing Systems  
*Track Chair: Gianvito Urgese (PoliTO, Italy)*
- Secure and Fault-Tolerant Embedded Computing  
*Track Chair: Chun-Ming Huang (TSRI, Taiwan)*
- Machine Learning for Energy-efficient, Reliable Manycore Interconnects  
*Track Chair: Kun-Chih Chen (NSYSU, Taiwan)*

## Special Tracks

- Embedded, Cyber-Physical, and IoT Systems  
*Session Chair: Xuchong Zhang (Xi'an Jiaotong University, China)*
- Embedded, Applications and Ubiquitous Computing  
*Session Chairs: Chih-Peng Fan (NCHU, Taiwan)*
- Embedded Neuroprosthesis, Technologies, and Devices  
*Session Chairs: Chun-Shu Wei (NYCU, Taiwan) and Chul Kim (KAIST, Korea)*
- Embedded Machine Learning and Data Analytics  
*Session Chair: Yuan Du (NJU, China)*

## Special Sessions

- Auto-Tuning for Multicore and GPU (ATMG2021)  
*Session Chair: Daichi Mukunoki (RIKEN, Japan)*
- Distributed Computing and Communication Techniques for Emerging AI Applications  
*Session Chair: Peng Li (Univ. of Aizu, Japan),*
- Intelligent Systems and Learning Technologies: Models, Methods, and Applications  
*Session Chair: Mohamed Hamada (Univ. of Aizu, Japan), Sarika Jain (NITKRR, India)*
- Low-power and Solutions for Future SoC design  
*Session Chair: Akram B. Ahmed (AIST, Japan), Hayate Okuhara (UNIBO, Italy)*
- Emerging Machine Learning and Deep Learning Models: Theory and Applications  
*Session Chair: Jungpil SHIN (Univ. of Aizu, Japan)*

## Proceedings Publication and Indexing

The 15<sup>th</sup> IEEE MCSoc-2022 proceedings will be published by IEEE CS Press, 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, and ISI Thomson's Scientific and Technical Proceedings, ISTP/ISI Proceedings, and ISI Thomson.

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