

IMPORTANT DEADLINE DATES

March 15: Tutorial and Special Session

proposals deadline

April 5: Regular papers and Invited papers submission deadline

May 3: Notice of acceptance

May 24: Final camera-ready paper

deadline

CALL FOR PAPERS IEEE INTERNATIONAL MWSCAS 2024

The 67th IEEE International Midwest Symposium on Circuits and Systems will be held at the Sheraton Hotel in Springfield, MA, USA, August 11 - 14, 2024. Springfield is twenty minutes from Hartford CT Springfield/Hartford airport (BDL) and an hour and forty-five minutes from Boston MA airport (BOS). MWSCAS 2024 will include oral and poster sessions, student paper contest, tutorials given by experts in circuits and systems topics, and special sessions. Topics include, but are not limited to:

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Track 1. Analog and Mixed Circuits and **Systems**

- 1.1 Analog Circuits and Systems
- 1.2 Linear and Non-linear Analog Systems
- 1.3 Biomedical Systems and Bio Chips
- 1.4 Physical Design, Test, Verifications
- 1.5 Converters, ADC, DAC and others
- 1.6 Regulators, References and Reliability Methos
- 1.7 Other Analog Circuits and systems

Track 2. Digital Circuits and Systems

- 2.1 Digital Integrated Circuits
- 2.2 System on a Chip (SOC) and Network on a Chip (NOC)
- 2.3 Digital Filters
- 2.4 Hardware-Software Co-Design and security
- 2.5 Other Digital Circuits and Systems

Track 3. Communications Circuits and **Systems**

- 3.1 Communications Circuits, Computers and Applications
- 3.2 Communications Systems and Control
- 3.3 Information Theory, Coding and Security
- 3.4 Communications Theory
- 3.5 Other Communications Circuits and Systems

Track 4. RF and Wireless Circuits and Systems

- 4.1 RF Front-End Circuits
- 4.2 Mixed-Signal RF and Analog and Baseline Circuits
- 4.3 Wireless Mobile Circuits and Systems and Connectivity, 5G & 6G Circuit and Systems
- 4.4 VCO's and Frequency Multipliers, PLL's and Synthesizers
- 4.5 Other RF and Wireless Circuits and Systems

Track 5. Sensor Circuits and Systems

- 5.1 Technologies for Smart Sensors
- 5.2 Sensor Fusion
- 5.3 Control Systems
- 5.4 Mechatronics and Robotics
- 5.5 Other Sensor Circuits and Systems

Track 6. Trends in Quantum computing & Photonics

- 6.1 Qubit Architecture and Design
- 6.2 Quantum Error Correction
- 6.3 Quantum Hardware Systems
- 6.4 Electronic/Photonic Integration
- 6.5 Visible/Near-IR/IR integrated Photonic 6.6 Education and Workforce in Ouantum
- Computing and Integrated photonics 6.7 Other Topics in This Area

Track 7. Signal and Image Processing

- 7.1 Analog, Digital and Mixed Signal Processing
- 7.2 Streaming and Human Computer Interactions
- 7.3 Signal Processing Theory and Methods
- 7.4 Image, Video and Multi-Dimensional Signal Processing
- 7.5 Other Signal and Image Processing

Track 8. Hardware/Software Design and Security

- 8.1 Processor and Memory Design
- 8.2 MEMS/NEMS
- 8.3 Nano-Electronics and Technology
- 8.4 Flexible Circuits and Systems
- 8.5 Emerging Memory and Memristor
- 8.6 Photovoltaic Devices/Panels and **Energy Harvesting**
- 8.7 Other Hardware/Software Design and Security

Track 9. Artificial Intelligence (AI) and Internet of Things (IoT), and

- 9.1 Al digital, analog cores and Machine Learning
- 9.2 Sensors, connectivity and systems
- 9.3 Embedded processors and controllers
- 9.4 Signals, Systems and Controls
- 9.5 Neural Networks and Fuzzy Logic
- 9.6 Energy Harvesting and power management
- 9.7 Other AI, IoT, Controls and Systems

Track 10. Biomedical Circuits and

- 10.1 Bio-signal Amplifiers
- 10.2 Wearable and Implantable/injectable Systems
- 10.3 Human/Brain Machine Interfaces
- 10.4 Integrated Biomedical Systems
- 10.5 Lab-on-CMOS and Lab-on-Chip
- 10.6 Biomedical Singal/Image Processing
- 10.7 Point of Care Biomedical Diagnostics
- 10.8 Other Areas in Biomedical Circuits and Systems

Track 11. Power and Sensory Circuits and Systems

- 11.1 Smart Power Management for High-Performance Čloud and Al Data
- 11.2 Wireless Charging and Energy Harvesting
- 11.3 Power Management of Electric Vehicles
- 11.4 Renewable Energy Systems, Wireless Charging and 11.5 Energy Harvesting
- 11.6 Smart Grid for Cloud Computing
- 11.7 Mechatronics and Robotics
- 11.8 Other Smart Power





MWSCAS Steering Committee

