The IEEE International Conference on Microelectronics (ICM 2020) has already been held numerous times in different countries across the MiddleEast, Southern Europe, and Asia for the past 31 years. The 32nd edition of the conference will take place in Aqaba, Jordan. Jordan is home to one of the world’s 7 wonders; Petra. Aqaba is a coastal harbor which serves as a launch point for visitors to Petra and Wadi Rum. The 2020 version of ICM will foster oral and poster sessions, industrial panel discussions, and tutorials given by experts on state-of-the-art topics. The regular technical program will run for three days. In addition, tutorial sessions will be held on the first day of the conference. Papers are solicited in, but not limited to, the following topics:

- Device and Circuit modelling
- Analog circuit design
- Digital signal processing
- Low power circuits and systems
- Power management
- Nonlinear circuits
- VLSI systems and applications
- Reconfigurable systems
- Hardware Software Co-design
- CAD tools
- NoC, SoC, SIP, and Packaging
- MEMS and NEMS
- Optical Circuits and systems
- Design for testability
- Emerging technology
- RFID, RFIC and antenna
- Virtual reality
- IoT Circuits and security
- Testing, reliability, and verification
- Neuromorphic Computing
- Biomedical circuits and systems
- Memristor circuits and systems
- AI and Neural Networks circuits

Cyber-physical Systems Security track is comprehensive and covers a broad spectrum of topics. The topics of interest include, but limited to: [more information]

- Physical attacks including side-channel and fault attacks
- Cryptography and cryptanalysis
- Biometric security
- Trusted platform modules (TPM)
- Efficient implementations for HW security
- Intellectual property protection and content protection
- Automotive security
- Reverse engineering
- Security of wireless sensor networks
- Digital forensics and crime science
- Security Analysis of cyber-physical systems
- Machine learning applications in cybersecurity
- Security of reconfigurable and adaptive hardware
- Industrial systems security
- Cloud and big data security
- Computer network security

Accepted and presented papers will be sent to IEEE for potential inclusion in the IEEEXplore.

Prospective authors are invited to submit full length paper (maximum 4 pages) including results, figures and references using the IEEE template format [http://www.ieee.org/conferences_events/conferences/publishing/templates.html].

More info could be obtained through the conference website at the following link: [https://www.ieee-icm-2020.org]

Important Dates:

Submission of Special Sessions Proposals: Sept. 30, 2020
Submission of Tutorials Proposals: Sept. 30, 2020
Notification of Tutorials Proposals Acceptance: Oct. 31, 2020
Notification of Special Sessions Proposals Acceptance: Oct. 31, 2020
Submission of Regular/Student Papers: Sept. 30, 2020
Notification of Paper Acceptance: Oct. 31, 2020
Camera Ready Submission: Nov. 15, 2020

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