



CALL FOR PAPERS

ICMON 2020
Nov 19-20, 2020
Singapore, SG

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICMON 2020 : International Conference on Microelectronics, Optoelectronics and Nanoelectronic Engineering is

the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Microelectronics, Optoelectronics and Nanoelectronic Engineering. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Microelectronic Device Processing and Process Integration

Trends in submicron technologies; product development (DRAM, SRAM, Flash, CMOS Imagers); new device technologies (Phase Change Memory, Resistive Memory, Ferroelectric Memory, Nano-electronics), novel transistors, device improvements
Microelectronic Device Electrical and Reliability Testing
Dielectric reliability; device reliability; phase change memory reliability; novel memory technology testing schemes; electrical properties of novel devices

Semiconductor Packaging and Reliability

Semiconductor package reliability, Design for Manufacturability, and stacked die packaging, and novel assembly processes. Novel packaging structures, processes, and materials

Microelectromechanical Systems

(MEMS) and Nanoelectronic Devices
Novel processes and materials, MEMS research, development and performance; nanotubes, nanowires, quantum dots, molecular devices, device characterization for nanoelectronic devices

Microelectronic Circuit Design

New product design, design techniques, and memory sensing schemes

Laser Technology and Applications

Optoelectronics and Photonics

Laser Physics and Nonlinear Optics

Gas Lasers and Applications

Solid State Lasers: Technology and Devices

emiconductor lasers, including tunable lasers and multi-wavelength lasers

Laser Materials, Fabrication and Characterization

Laser material processing

Tera-hertz sources & detection

Tera-Hertz propagation

Optical Communication and Sensors

Special Fibers and cables

New technologies impacting

components and sub-systems

High-speed communication systems

