



CALL FOR PAPERS

ICSSDP 2020
Mar 23-24, 2020
Tokyo, Japan

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.

ICSSDP 2020 : International Conference on Simulation of Semiconductor Devices and Processes is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Simulation of Semiconductor Devices and Processes. 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:

Modeling and simulation of all sorts of semiconductor devices
FinFETs, GAA FETs, ultra-thin SOI devices
Emerging memory devices
New-material-based nanodevices and optoelectronic devices
TFTs, sensors, power electronic devices and spintronic devices
Tunnel FETs, SETs, organic electronic devices, and bioelectronic devices
Modeling and simulation of all sorts of semiconductor processes
First-principles material design and growth simulation of nano-scale fabrication
Fundamental aspects of device modeling and simulation
Quantum transport

Thermal transport
Fluctuation, noise and reliability
Compact modeling for circuit simulation
Low-power, high frequency and power electronics applications
Process/device/circuit co-simulation in context with system design and verification
Equipment, topography, lithography modeling
Interconnect modeling, including noise and parasitic effects
Numerical methods and algorithms, including grid generation, user-interface, and visualization
Metrology for the modeling of semiconductor devices and processes