

Special Session No. SS09

ICCIC-2020

International Conference on Contemporary Issues in Computing
Organized by The Electro Inventor, Saraju Villa, 5A Khalisa Kota Pally Birati,
Kolkata700051, India

On 21st – 22nd March, 2020

******* CALL FOR PAPERS *******

SPECIAL SESSION ON

Numerical Simulation of Semiconductor Devices

SESSION ORGANIZERS:

Dr. Aritra Acharyya, Assistant Professor, Department of Electronics and Communication Engineering, Cooch Behar Government Engineering College, Village: Harinchawra, Post Office: Ghughumari, District: Cooch Behar, West Bengal – 736170, India, E-mail ID: ari_besu@yahoo.co.in

Dr. Arindam Biswas, Assistant Professor, Department of Mining Engineering, Kazi Nazrul University, Asansol, Burdwan, West Bengal – 713340, India, E-mail ID: mailarindambiswas@gmail.com

SESSION DESCRIPTION:

Numerical simulation of semiconductor devices provides an effective tool for device design in many cases of practical relevance. This is a thriving research area for scientists and engineers. Reliable numerical simulators must apply robust discretization techniques to a sufficiently accurate device model.

RECOMMENDED TOPICS:

Topics to be discussed in this special session include (but are not limited to) the following:

- Analysis/Simulation of Optoelectronic Devices, like LASERs, LEDs, APDs, Solar Cells, etc.
- Analysis/Simulation of MOS Devices
- Analysis/Simulation of high frequency devices, like TFETs, HEMTs, etc.
- Analysis/Simulation of Power Devices
- Analysis/Simulation of Avalanche Transit Time Devices
- Analysis/Simulation of Transfer Electron Devices
- Analysis/Simulation of Nano-electronic Devices
- Theoretical/Experimental Studies on Electronic Devices
- Theoretical/Experimental Studies on Transport Phenomena
- Theoretical/Experimental Studies on Quantum Mechanical Phenomena

- Design, Simulation/Experimental Studies on VLSI, ULSI Circuits
- Theoretical/Experimental Studies on Thin Film Technologies
- Group III-V, Group IV-IV Compound Semiconductor Materials
- Graphene, Carbon Nano Tube, Graphene Nano Ribbon based Devices
- Quantum Computing Devices
- Sensors, MEMS and Bio-electronic Devices
- Organic Materials for Electronic and Photonic Devices

SUBMISSION PROCEDURE:

Researchers and practitioners are invited to submit papers for this special theme session on **Numerical Analysis of Semiconductor Devices** on or before January 31, 2020. All submissions must be original and may not be under review by another publication. INTERESTED AUTHORS SHOULD CONSULT THE CONFERENCE'S GUIDELINES FOR MANUSCRIPT PREPARATION at <http://iccicstm.com/guide.php> and SUBMISSIONS at <http://iccicstm.com/papersub.php>. All submitted papers will be reviewed on a double-blind, peer review basis.

NOTE: While submitting paper in this special session, please specify **Numerical Analysis of Semiconductor Devices** at the top (above paper title) of the first page of your paper.

* * * * *