

# 24th International Conference on Numerical Simulation of OptoElectronic Devices

## NUSOD - 2024

September 23-27, 2024; India Habitat Centre, New Delhi, India

<https://www.nusod.net/>

### About NUSOD-2024

The NUSOD conference connects theory and practice in optoelectronics. Papers are solicited on the modeling, simulation, and analysis of optoelectronic devices including materials, fabrication, and application. Academic researchers, device engineers, and software developers are invited to discuss the advancement and the practical use of numerical methods in photonics and electronics.

**Devices of Interest include but are not limited to:**

- Semiconductor Lasers
- Photodetectors
- Light Emitting Diodes
- Solar Cells
- Optical Modulators
- Photonic Devices and Circuits
- Optical Amplifiers
- Optoelectronic Integrated Circuits
- Quantum Optoelectronics

### Timeline

2-paged IEEE Indexed Abstract Deadline	May 28, 2024
Early Bird Registration Deadline	July 25, 2024
Late Registration Deadline	August 24, 2024
Conference Dates	September 23-27, 2024

### Registration Details

Category	Until July 25, 2024	After July 25, 2024
Regular Fee	INR 25,000/-	INR 29,000/-
Student Fee	INR 12,500/-	INR 16,600/-
Guest Fee	INR 10,000/-	INR 12,500/-

### Venue: India Habitat Centre



Google Maps Link for Venue



**Topics of Interest include but are not limited to:**

- Novel Materials, Devices, and Simulation Tools
- Design and optimization of optoelectronic devices
- Analysis of device performance and internal processes
- Electron-photon interaction and plasmonics
- Physics and theory of nanostructures
- Application of machine learning to the design and control of optoelectronic devices
- Photonic crystal structures and devices
- Material properties incl. metamaterials
- Organic materials and devices
- Fabrication process theory and simulation
- Packaging and integration issues
- Photonic circuits and fiber optics
- Terahertz photonics
- Noise modeling and simulation
- Ultra fast effects and dynamical phenomena
- High-speed devices and photonic links
- Coupling of electronic, optical, and thermal simulations
- Mathematical models and numerical methods
- Calibration and validation of models and material parameters

### Hosted By:



Indian Institute of  
Technology Jammu (IITJMU)



National Institute of  
Technology Delhi (NITD)

### Local Chairs:

Dr. Kankat Ghosh, IIT Jammu  
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