Call for Papers

NEMO2019 (http://nemo-ieee.org) brings together experts and practitioners of electromagnetics and multiphysics-based modeling, simulation and optimization for RF, microwave and terahertz applications. This conference is an ideal forum to share new ideas on techniques for electromagnetic and multiphysics modeling, propose efficient design algorithms and tools, and anticipate modeling/analysis needs of future technologies and applications. Founded by the IEEE Microwave Theory and Techniques Society, NEMO is a new annual focal event on electromagnetic- and multiphysics-based computer-aided design (CAD), rotating between Europe, North America and Asia.

NEMO2019, held right before IMS2019 in the same city (Boston), aims to stimulate a broad exploration of “disruptive” technologies of EM-CAD. The IEEE Transactions on MTT will also publish a Special Issue devoted to NEMO2019.

Conference Topics

Authors are cordially invited to submit papers in all areas of electromagnetic modeling, analysis and optimization, including but not limited to:

- Computational electromagnetics
- Multiphysics computation and modeling
- Analytical and semi-analytical modeling
- Integral equation methods
- Finite difference methods
- Finite element methods
- Hybrid modeling techniques
- Frequency-domain methods
- Time-domain methods
- High-frequency methods
- Multi-scale modeling techniques
- Large-scale problems
- Parallel computing
- Computer-aided design and techniques
- Cognition-aided design
- Modeling of active devices and circuits
- Evolutionary/classical/space mapping optimization techniques
- Medical image signal processing techniques
- Electromagnetic inverse problems
- Fifth-generation mobile system analysis and modeling
- Modeling of IC packages and interconnections
- Signal integrity analysis
- Modeling of biological effects
- Modeling of electro-optical devices
- Terahertz circuit and modeling
- New materials and nanostructures modeling
- New and emerging areas

Paper Submission

1. Full paper (3-4 pages, presentation & IEEE Xplore)
2. Abstract (1 page, presentation only)

Conference Venue

Boston Marriott Cambridge (50 Broadway, Cambridge), perfectly located in the lively Kendall Square area, provides easy access to MIT and Harvard University, and is within easy reach of downtown Boston. Right at the Kendall Square/MIT subway station, and 5 miles to BOS airport.

IMPORTANT DATES

- Preliminary Paper Submission Deadline: Dec. 9, 2018
- Notification of Acceptance: Jan. 18, 2019
- Final Paper Submission: Mar. 18, 2019
- Conference Date: May 29-31, 2019