



NEMO 2020

December 7-9, 2020, Hangzhou, China

2020 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization



www.2020nemo-ieee.org

December 7-9, 2020, Hangzhou, China

Call for Papers

NEMO2020 (www.2020nemo-ieee.org) brings together experts of electromagnetics- and multiphysics-based modeling, simulation, optimization and design for RF, microwave, terahertz, optics, and other applications. This conference is an ideal forum to share new ideas on modeling and design for electromagnetics and multiphysics, propose efficient design algorithms, tools, routes, strategies, and anticipate the modeling/analysis/optimization needs of future technologies and applications.

Founded by the IEEE MTT-S, NEMO is an annual focal event on electromagnetics- and multiphysics-based modeling, simulation and design for microwave, antennas & propagation, and electromagnetic compatibility (MAPE), rotating between Europe, North America and Asia.

NEMO2020 aims to stimulate broad discussion and exploration of disruptive technologies for MAPE in addition to traditional topics. The conference features an exciting technical program, an industry exhibition, a special program of Women in NEMO for MAPE, and invited talks by internationally recognized experts in electromagnetic and multiphysics modeling, simulation, high performance computing, and optimization applied for RFIC, 3DIC, SiP, Terahertz Electronics, Nanoelectronics, Nanophotonics, and 5G wireless communication, etc.

IEEE Trans. on MTT will publish a mini-special issue devoted to NEMO2020. NEMO2020 is also technically co-sponsored by the IEEE Antennas and Propagation Society and IEEE Electromagnetic Compatibility Society.

Important Dates

Preliminary Paper Submission Deadline	March 15, 2020
Extended Paper Submission Deadline:	September 15, 2020
Notification of Acceptance	October 15, 2020
Final Paper Submission	November 5, 2020
Conference Date	December 7-9, 2020

Special Program of Women in NEMO for MAPE



Conference General

Co-Chairs:

Wen-Yan, Yin (wyyin@zju.edu.cn)
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Erping, Li (liep@zju.edu.cn)
ZJU-UIUC Institute

Junfa, Mao (jfmao@sjtu.edu.cn)
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- Qiubo Ye, Zhiyu Zhu,
- Yejun He, Wenxiao Fang,
- Xiaofeng Hu, Xiaobing Wang



上海市航空航天器电磁环境效应重点实验室
Shanghai Key Laboratory of Electromagnetic Environment Effects for Aerospace Vehicle





Conference Topics

- Modeling, simulation and design for MTT/AP/EMC
- Computational electromagnetics
- Multiphysics modeling, simulation and design
- Computational nanoelectronics
- Semi-analytical modeling and simulation
- Integral equation methods
- Finite difference/Finite element methods
- Hybrid simulation techniques
- Frequency-domain methods
- Time-domain methods
- High-frequency methods
- High performance CEM and applications
- High performance computational multiphysics
- EDA and CAD techniques
- Machine learning algorithms
- Artificial neural network modeling and optimization
- Neural computation and applications
- Metastructure simulation and applications
- EMC for circuit and system designs
- New and emerging areas
- EM reliability of devices and circuits
- Modeling and simulation of HPM effects
- Modeling and simulation of E3
- 2D material device modeling and design
- Interconnect modeling and design
- System-on-chip modeling and design
- 3DIC, AiP and SiP modeling and design
- Ultra-fast electronics device modeling
- Cognition-aided design
- Modeling of active devices and circuits
- Power electronics device modeling
- Space mapping optimization techniques
- Inverse electromagnetic problems
- 5G mobile system analysis and modeling
- Signal integrity analysis
- Modeling of biological effects
- Modeling of nanophotonic devices
- Modeling of THz Devices and Circuits
- New EM materials modeling and simulation

Conference Award Committee:

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Contact Us:

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Women in NEMO for MAPE Awards

The winners of the Women in NEMO for MAPE Award will be selected by International Awards Committee and announced during the Conference Banquet.

Student Paper Prize

A Student Paper Competition will be held during NEMO2020. A student participating in this contest should be the first author of the paper and must present it personally in the conference. The work will be evaluated taking into account both presentation and reviewer comments/ranking.

The winners of the Best Student Paper Award will be selected by an International Awards Panel and announced during the Conference Banquet.

Winners will receive conference awards.

Paper Submission

- Full Paper (4 pages, presentation & IEEE Xplore)
- Abstract (1 page, presentation only)
- "NEMO2020" paper submission website:
<https://edas.info/N27001>

Local Events

- West Lake Tour
- Impressive West Lake
- Thousands of Years of Love for Songcheng