NEMO 2027

7 – 9 July, 2027 Torino (Italy)

IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave and Terahertz Applications



Call for Papers

Founded by IEEE Microwave Theory & Technology Society (MTT-S), the NEMO conference is the annual international forum on electromagnetic and multiphysics based modeling, simulation, and optimization for RF, microwave, and terahertz applications. The Conference brings together academy and industry experts eager to share new ideas on algorithms, tools and techniques for Electromagnetic and Multiphysics modeling and design.

NEMO2027 will be part the MTT-S 75th anniversary celebrations, featuring an exciting technical program, an industry exhibition, keynote and invited talks. NEMO2027 will be held in Torino, Italy, from 7 to 9 July 2027, hosted by Politecnico di Torino, a renowned center for research, innovation, and higher education and the oldest polytechnic University in Italy.

Conference Topics

Authors are encouraged to submit contributions in all areas of EM and Multiphysics modeling, analysis, and optimization, including, but not limited to

- Computational electromagnetics
- Computational multiphysics and modeling
- Analytical and semi-analytical modeling
- Integral equation, finite difference, and finite element methods
- Hybrid and multi-scale modeling techniques
- Algorithms for classical, evolutionary and quantum optimization
- Frequency-domain and time-domain methods
- Modelling of active, passive, and electro/optical devices
- Space-mapping methodologies
- Pixelated structures and novel circuit topologies
- Artificial intelligence, machine learning, and digital twins
- Parallel and high-performance computing
- Quantum and neuromorphic computing
- Terahertz devices and applications
- Modeling of biological effects and medical imaging
- Antenna modeling and design
- Modeling of IC packages and interconnections
- Signal and power integrity modeling and optimization
- 5G/6G systems analysis and modeling
- New and emerging areas in electronic design automation and optimization
- New materials, nanostructures, metamaterials, and metasurfaces

Important Dates

Preliminary paper submission	**21st February 2027**
Notification of acceptance	**7th April 2027**
Final paper submission	**21st April 2027**

Submission Guidelines

Submitted papers should be 3 pages in length. Authors must adhere to the format provided in the template available in the conference site.

Full conference details

http://nemo-ieee.org

MTT-S IEEE MICROWAVE THEORY & TECHNOLOGY SOCIETY

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