



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



Aug. 11-14, 2015, Ottawa, Canada

CALL FOR PAPERS

NEMO2015 will bring together **experts and practitioners of electromagnetic- 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 the modeling/analysis needs of future technologies and applications.

Founded by the **IEEE Microwave Theory and Techniques Society (MTT-S)**, NEMO is a new annual focal event on electromagnetic- and multiphysics-based computer-aided design (EM-CAD), rotating between Europe, North America and Asia. NEMO2015 aims to stimulate discussion and exploration of “disruptive” technologies of EM-CAD in addition to traditional topics. The conference features an exciting technical program, an industry exhibition and invited talks by internationally recognized experts in electromagnetic and multiphysics modeling and optimization.

CONFERENCE TOPICS

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

- Computational electromagnetics
- Computational multiphysics
- 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
- Linear and non-linear CAD techniques
- Model-order reduction and macromodeling
- Modeling of active devices and circuits
- Evolutionary/classical/space mapping optimization techniques
- Design with uncertainties
- Cognition-aided design
- Inverse electromagnetic problems
- Multi-physics modeling
- Handheld-device based EM computations
- Hardware-based acceleration techniques
- Modeling of 3D integrated circuits
- Modeling of IC packages and interconnects
- Signal and power integrity analysis
- Modeling of biological effects
- Modeling of electro/optical devices
- Modeling of high power devices/circuits
- Modeling of new materials and nanostructures
- Modeling of terahertz circuits
- New and emerging areas

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

Conference General Chair

Q. J. Zhang
Carleton University
qjz@doe.carleton.ca

Conference General Co-Chair

Ram Achar
Carleton University
achar@doe.carleton.ca

Technical Program Chair

Natalia Nikolova
McMaster University
talia@mcmaster.ca

Technical Program Co-Chair

Zhizhang (David) Chen
Dalhousie University/UESTC
z.chen@dal.ca

Advisory Committee

Maurizio Bozzi
Wolfgang Hoefer
George Ponchak
James Rautio
Qi-Jun Zhang

IMPORTANT DATES

**Submission
Deadline:** Feb. 16, 2015

**Notification of
acceptance:** Mar. 31, 2015

**Final paper
Submission:** May 18, 2015



FOR FULL CONFERENCE DETAILS VISIT

<http://nemo-ieee.org>



IEEE MTT-S 2015

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

Aug. 11-14, 2015, Ottawa, Canada

SUBMISSION INFORMATION

The conference will consist of oral and poster presentations. English will be the official language of the conference.

Prospective authors are cordially invited to submit a **three-page manuscript**, according to the IEEE format template available at the conference website. The paper should explain clearly the original content and the relevance of the proposed technical contribution. Please use the on-line submission site and instructions (accessible from the conference web site) to submit your contribution. Authors should indicate their preference for oral or poster presentation. **The preliminary paper submission deadline is Feb. 16, 2015.**

All submitted papers will be peer reviewed. Notification of acceptance will be communicated to the authors via e-mail by Mar. 31, 2015. Accepted papers will be published in the NEMO2015 conference proceedings as well as in the IEEE Xplore. **The final paper submission deadline is May 18, 2015.**

STUDENT PAPER CONTEST

A Student Paper Contest will be held during NEMO2015. 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 the presentation and reviewer comments/ranking.

The winner of the **Best Student Paper Award** will be selected by an *International Awards Panel* and announced during the Gala Conference Dinner on Aug. 13, 2015.

CONFERENCE HOST CITY

The vibrant city of Ottawa is the capital of **Canada**, the fourth largest city in the country and is the "Silicon Valley North", being home to Canada's leading Technology companies.

Ottawa is blessed with an abundance of attractions that will enliven your visit no matter which time of the year. Bask in city's wealth of historic landmarks - from the iconic Parliament Buildings to the Rideau Canal - all located within its downtown core; marvel at the architectural wonders that house national museums and galleries as well as their world-class exhibitions; and, soak in Ottawa's natural beauty, the perfect backdrop for your next outdoor adventure. Exalt those experiences with activities that will charm your family during the day, food that will make you to crave for more, and the nightlife that sparkles.



Ottawa is also the most comfortable destination during August: the daytime high temperature is 28°C and night-time low is 12°C (or high of 82°F and low of 54°F), according to past 10 year average.



Centre Block, Parliament Hill



Ottawa Locks, Rideau Canal



Canadian Museum of History



FOR FULL CONFERENCE DETAILS VISIT

<http://nemo-ieee.org>

