

CEM 2011

Eighth International Conference on Computation in Electromagnetics

Monday, 11 – Thursday, 14 April 2011 • Sofitel Hotel, Wroclaw, Poland

CALL FOR PAPERS DEADLINE FOR SUBMISSION MONDAY, 1 NOVEMBER 2010

Organised by

Blue Vision Events Limited on behalf of the Electromagnetics Technical and Professional Network (TPN) of the Institution of Engineering and Technology (IET), in association with Antennas and Propagation TPN, and the International Compumag Society.

Co-Sponsored by

IEEE, ACES, UK Magnetics Society, PTETS, Electrical Engineering Committee of the Polish Academy of Sciences, URSI, VDE.



www.cem2011.com

Critical Dates

Paper submission closes

Monday, 1 November 2010

Notification of acceptance/rejection

Monday, 13 December 2010

Online registration open

Saturday, 1 January 2011

Provisional programme and abstracts online

Tuesday, 4 January 2011

Deadline for amended papers

Monday, 21 February 2011

Start of conference (evening drinks reception)

Monday, 11 April 2011

Close of conference (after lunch)

Thursday, 14 April 2011

About CEM 2011

This conference provides a forum for the presentation and discussion of research into computational techniques for solving problems in electromagnetics, with focus on aspects and applications of numerical modelling based on these techniques. Both low and high frequency fields will be covered, as well as electromagnetic hazards and EMC.

The conference will provide an opportunity for experts in the field, including practising engineers and designers, to meet and exchange information on recent developments in electromagnetic modelling. It will be of interest to academics undertaking research in electromagnetics and to engineers in fields such as telecommunications, propagation and remote sensing, power, defence and transport, where the electromagnetic aspects are crucial.

The focus is on an inclusive conference with networking opportunities. The emphasis is on interactive (poster) presentations with plenty of opportunities for informal discussions. Each session will start with invited oral introductory reviews of the relevant topics.

Contributions

The International Steering Committee invites submission of original contributions in the form of a two page paper by Monday, 1 November 2010 via the conference website at www.CEM2011.com. This is the only technical submission required before the conference. All presented papers will be published in the conference proceedings. To set the appropriate scene each poster session will have a small number of invited oral presentations providing an overview of the topic area.

Student Author Award

A Student Author Award to a young researcher for the best paper presented at CEM 2011 will be offered by COMPEL (Emerald) (www.emeraldinsight.com/compel.htm). This prize will be awarded to a young researcher that is a participant of the conference who has registered as a student. For more information about the award please visit

www.CEM2011.com/student-award

Post Conference Publications

Three special issues are planned after the conference: in the journal "IET Science, Measurement and Technology (SMT)" (<http://www.ietdl.org/IET-SMT>), in the ACES Journal (<http://aces.ee.olemiss.edu/journal.php>) and in the "Archives of Electrical Engineering" (AEE), the journal of the Polish Academy of Science. Directly after the conference, the Steering Committee will select

approximately 60 papers for possible publication. Successful authors will be invited within a few days after the conference to write an extended paper and submit it by the end of May 2011 to the nominated journal. The papers will go through a normal review and publication processes of the relevant journal.

For further information please visit:

www.CEM2011.com/special-issue

Technical Scope

The International Steering Committee welcomes original contributions covering all aspects of Computational Electromagnetics. Contributions are encouraged from, but not limited to, the themes and topics in the areas listed.

International Steering Committee

Professor Jan Sykulski

Conference Chairman
University of Southampton, UK

Dr Cris Emsom

Conference Editor
Infolytica Europe, UK

Professor Oszkar Biro

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Cobham Technical Services, UK

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URSI
Nottingham University, UK

Professor Adel Razek

IET EM-TPN
SUPELEC, Gif-sur-Yvette, France

Suggested themes and topics

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|---|---|--|---|
| A. Methods and Techniques of Computational Electromagnetics | B. Numerical Methods | C. Applications of CEM | C10. Material Modelling |
| A1. Theory | B1. Finite Difference and Finite Volume Methods | C1. Antennas | C11. Power electronics |
| A2. Algorithms | B2. Finite Element | C2. EMC/EM Hazards | C12. Visualisation of Electromagnetic Phenomena |
| A3. Software Developments | B3. Boundary Element/Method of Moments | C3. Machine Design | C13. Fault Tolerant Design |
| A4. Novel Computer Architecture | B4. Transmission Line Modelling | C4. Non-Destructive Testing | C14. High Power Microwaves |
| A5. Coupled Problems | B5. Mode Matching | C5. Sensors/Actuators | C15. Pulsed Power Source Modelling |
| A6. Optimisation | B6. Geometric Theory of Diffraction/Physical Optics | C6. Microwave/Optical Circuits | C16. Superconductivity |
| A7. Micro- and nano-electromagnetics | B7. Hybrid Methods | C7. Electromagnetic Band Gap Structures and Meta-materials | C17. Other applications |
| A8. Statistical electromagnetics | B8. Multipole Methods | C8. Bio-electromagnetics | D. CEM in Education |
| | B9. Finite Integration | C9. Nanotechnologies | E. Code Validation |

Working Language

The working language of the conference is English, which will be used for all printed material, presentations and discussions.

Programme and Registration

A registration form and programme details will be published on the website. Please note that at least one author per presented paper must register by Monday, 21 February 2011.

Venue

Wroclaw is a thriving cosmopolitan centre and as the capital of the province of Lower Silesia it is a strong economic, scientific and cultural centre. Situated strategically between Prague, Warsaw and Berlin, Wroclaw boasts a developed transportation infrastructure that connects the metropolis with the whole of the continent and beyond. European low cost airlines arrive daily in to Wroclaw's Copernicus Airport which is located in Strachowice, 13km west of the centre of town.

The conference will be held at the 5 star Sofitel Hotel which is nestled in the heart of the city's historic district, and is a stone's throw from the bustling Market Square.

For more information please visit the conference website www.CEM2011.com/venue

Exhibition

There will be an exhibition of software and computer tools for Computational Electromagnetics in conjunction with the conference. This will provide the opportunity for delegates to examine and discuss available products. Potential exhibitors should contact the organisers at CEM2011@bluevisionevents.com



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