

Scope of the Conference

The objective of the SCEE events is to bring together scientists from universities and industry with the goal of intensive discussions about modeling and simulation of electronic circuits and electromagnetic fields. The workshop is mainly directed at mathematicians and electrical and electronic engineers.

SCEE History

SCEE is an international conference dedicated to Scientific Computing in Electrical Engineering. It started as a national German meeting held in Darmstadt (1997) and in Berlin (1998), both under the auspices of the DMV (Deutscher Mathematiker Verein). In 2000, the first truly international workshop was organized in Warnemünde by the University of Rostock, Germany (<http://www.scee-2000.uni-rostock.de/>). In 2002, the 4th SCEE conference was jointly organized by the Eindhoven University of Technology (TU/e) and Philips Research Laboratories Eindhoven, The Netherlands (<http://www.win.tue.nl/scee2002/>). In 2004, the 5th SCEE conference took place in Capo D'Orlando, Italy, organized by Università di Catania and Consorzio Catania Ricerche (<http://www.dmi.unict.it/scee2004/>). A SCEE Summer School on Computational methods for microelectronics was organized in 2005 as a follow up of the SCEE04 conference (www.dmi.unict.it/sceeschools). The 6th conference is organized by "Universitatea Politehnica din Bucuresti (UPB), Centrul de Inginerie Electrica Asistata de Calculator (CIEAC) - Laboratorul de Metode Numerice (LMN)" in Sinaia, Romania.

Conference topics

- 1. Computational Electromagnetics (CE)**
 - Modeling and parameter extraction
 - Discretization and Solution Methods (FDTD, FIT, FEM, BEM, FDS, TLM, PEEC)
 - Applications (Antennas, Microwave, Interconnects and on-chip passive structures)
- 2. Circuit Simulation and Design (CS)**
 - Reduced Order Modeling
 - Numerical Integration Techniques
 - TCAD/EDA tools and techniques

- Applications (Radio Frequency, Power Electronics, Optical Networks)
- 3. Coupled Problems (CP)**
 - Field-circuit coupled problems
 - Multi-physics (Coupling with electrical, thermal and mechanical problems, Substrate coupling)
 - Application (Co-Simulation, Electromagnetic Compatibility, Bio-engineering)
 - 4. Mathematical and Computational Methods (CM)**
 - Inverse Problems
 - Optimization
 - Multi-Scale Schemes
 - Solutions methods for large linear systems
 - Differential-Algebraic Equations (DAEs)
 - Grid Computing
 - Parallel Computing

Venue

SCEE2006 will be held in Sinaia, Romania. It is a resort situated 125 km North from Bucharest in Carpathian Mountains, on Prahova Valley. Sinaia is the traditional holiday site of Romanian aristocracy and former Romanian Royal Summer Residence. The conference will be hosted by New Montana Hotel.

Local Organizing Committee

Prof. Mihai Iordache (dean of Electrical Engineering Faculty) – “Politehnica” University of Bucharest (PUB)
Assoc. Prof. Gabriela Ciuprina (chair person) – PUB
Prof. Daniel Ioan (treasurer) – PUB
Ing. Diana Mihalache (secretary) – PUB
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Prof. C. Tischendorf (*Technische Universität Berlin, Germany*)
Dr. G.Denk (*Infineon Technologies AG, Germany*)

Invited speakers

Personalities from industry and academic world are invited to present their research achievements in conference domains:

CE: Dr. Francois Henrotte from RWTH Aachen,
Dr. Irina Munteanu from CST, Darmstadt,
CS: Dr. Janne Roos from Helsinki Univ. of Technology,
Prof. Luis Miguel Silveira from INESC, Lisbon,
CP: Herbert De Gersem from TEMF, Darmstadt,
Dr. Andrea Marmiroli, from STMicroelectronics,
CM: Prof. Barbara Wohlmuth from Stuttgart University,
Prof. Piet Hemker from CWI, Amsterdam .

Sponsors



Registration

The registration is online via the homepage of SCEE-2006 (www.scee06.org). For any questions on the registration do not hesitate to contact us.

Registration fees

Registration fees cover conference attendance, book of abstracts, proceedings, coffee/tea, conference dinner travel from/to Bucharest (Otopeni) International Airport and sightseeing tour. There is no difference between university and industry participants.

- On receipt before May 30, 2006: 250 Euro
- Payment after May 30, 2006: 300 Euro

Organization committee will use these deadlines very strictly.

Payment

Payments are requested to be made in Euro by bank transfer to:

Bank: Raiffeisen Bank Romania

Account holder: Univ. Pol. Buc. - CIEAC

IBAN: RO09RZBR0000060002261204

Accommodation

The organizers will provide accommodation for a limited number of rooms in the conference hotel – New Montana, Sinaia, with a special conference discount, on a first come first served basis.

Alternatively, you can book your hotel by yourself, online, by accessing www.hotelsromania.com.

Important dates

Deadline for submission of abstracts: **March 20, 2006;**

Notification of acceptance: **April 15, 2006;**

Deadline for early registration: **May 30, 2006;**

Submission of full paper: **21 September 2006.**

Papers

The digests for SCEE06 are one or two pages length. You can find MSWord and LaTeX templates for the digests on the conference website.

In addition to the book of abstract, a separate book with the Conference Proceedings will be published in a series of Springer Verlag. Full papers will be reviewed by the Program Committee for publication in the Conference Proceedings.

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6th International Conference SCEE-2006 Scientific Computing in Electrical Engineering



September 17-22, 2006

Sinaia, Romania

<http://scee06.org>



Electrical
Engineering Faculty



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