IEEE

ELECTRON DEVICES SOCIETY

Final call for papers

14th International Workshop on Computational Electronics

October 27th-29th, 2010, Pisa, Italy

Conference Organizers

M. Macucci, Università di Pisa, Italy
G. Basso, Università di Pisa, Italy
G. Iannaccone, Università di Pisa, Italy

Advisory Committee

J. Barker, University of Glasgow, UK
A. Di Carlo, Università di Roma Tor Vergata, Italy
M. Fischetti, University of Massachusetts, USA
S. Goodnick, Arizona State University, USA
J. Jerome, Northwestern University, USA
G. Klimeck, Purdue University, USA
W. Porod, Notre Dame University, USA
M. Saraniti, Arizona State University, USA
S. Selberherr, Technische Universität Wien, Austria
M. Stroscio, University of Illinois at Chicago, USA
K. Taniguchi, Osaka University, Japan
H. Tsuchiya, Kobe University, Japan
P. Vogl, Technische Universität München, Germany

Program Committee

M. P. Anantram, University of Washington, USA
A. Asenov, Glasgow University, UK
G. Fiori, Università di Pisa, Italy
J. Guo, University of Florida, USA
G. Iafrate, North Carolina State University, USA
C. Jungemann, Universität der Bundeswehr, Germany
H. Kosina, Technische Universität Wien, Austria
S. Laux, IBM, USA
K. H. Lee, Samsung, Korea
B. Majkusiak, Warsaw University of Technology, Poland
B. Meinerzhagen, TU Braunschweig, Germany
U. Ravaioli, University of Illinois at Urbana–Champaign, USA
L. Register, University of Texas at Austin, USA
S. Roche, CEA, France
M. Rudan, Università di Bologna, Italy
N. Sano, University of Tsukuba, Japan
A. Schenk, ETH Zürich, Switzerland
Z. Yu, Tsinghua University, China

The International Workshop on Computational Electronics covers all aspects of advanced simulation of electronic transport and optoelectronic processes in semiconductors and semiconductor devices, based on both inorganic and organic materials. The scientific program, organized in a single-session format, consists of invited lectures, contributed talks, and poster presentations.
The workshop is intended to be an international forum for discussions on the current trends and future directions of computational electronics. The emphasis of the contributions is on interdisciplinary aspects of Computational Electronics, touching Physics, Engineering, Applied Mathematics, as well as Chemistry and Biology. Active participation of graduate students, including student presentations, is strongly encouraged.

General Topic Areas

Technology CAD, Ab-initio and atomistic simulations, Quantum transport, Carbon electronics, Molecular electronics, Modeling of biological systems, Simulation of optoelectronic devices and photovoltaics, NEMS and nanosensors, Monte Carlo simulation, Advanced computational techniques for nanoelectronics, Simulation of materials and material interfaces

Invited speakers (list to be completed)

Enrico Bellotti, Boston University, USA
Philippe Dollfus, Université Paris Sud, France
Christoph Jungemann, Universität der Bundeswehr, Germany
Tillmann Kubis, Purdue University, USA
Mathieu Luisier, Purdue University, USA
Eric Polizzi, University of Massachusetts, Amherst, USA
Wolfgang Porod, Notre Dame University, USA
Riccardo Rurali, ICMAB, Spain
Peter Vogl, Technische Universität München, Germany

Abstracts

An abstract consisting of one page of text and one page of figures should be uploaded to the conference web site (http://paine.iet.unipi.it/iwce2010). Abstract templates are available on the same web site.

Important dates:

- Abstract submission deadline: June 14th, 2010
- Notification of acceptance: July 26th, 2010
- Early registration deadline: September 10th, 2010

Conference information:

Detailed information about the conference is available at
http://paine.iet.unipi.it/iwce2010
Queries may be addressed to: iwce@mercurio.iet.unipi.it