The workshop covers all aspects of advanced simulation of electronic bandstructure and transport in solid-state, molecular, and biological nanostructures. Computation of nano-materials, optoelectronic and organic devices and sensors are also included. The scientific program 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**
- Structure relaxation using first principles calculation and MD (molecular dynamics)
- Bandstructure calculation of nanostructures
- Quantum transport and dynamics of nanostructures
- Advancements in TCAD of nano-scaled CMOS
- Molecular and bio-electronics
- Simulation of optoelectronic devices and nano-sensors
- Monte Carlo simulation
- Parallel computing in nanoelectronics
- Sub-TeraHertz modeling and simulation
- Simulation of materials and material interfaces.

**Abstracts and Proceedings**
Contributors must upload a two page abstract in PDF format. Style files for LaTeX and MS Word are provided on the conference homepage. Accepted abstracts will be published in a Book of Abstracts. The authors are encouraged to submit an extended version of their contribution for the conference proceedings which will be published in the Journal of Computational Electronics. Both, the two page abstract and the extended abstract, are subject to peer review.

**Important Dates**
- Abstract submission: 15 Jan, 2009
- Notification of acceptance: 28 Feb, 2009
- Early registration: 15 Apr, 2009
- Extended abstract due: 15 Apr, 2009
- Conference: 27-29 May, 2009

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