

## Editorial

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The 11th International Workshop on Computational Electronics was held at the Vienna University of Technology (TU Wien) on May 25–27, 2006. The Workshop continues a series of events initiated in 1992, when the first IWCE was organized by the Beckmann Institute of the University of Illinois. The following events were held at the University of Leeds, UK (August 1993), Portland, Oregon, USA (May 1994), Arizona State University, Tempe, USA (November 1995), University of Notre Dame, South Bend, USA (May 1997), Osaka University, Japan (September 1998), University of Glasgow, UK (May 2000), University of Illinois, Urbana, USA (October 2001), University of Rome “Tor Vergata,” Monte Porzio Catone, Italy (May 2003), and Purdue University, West Lafayette, USA (October 2004). An internet portal for the IWCE conference series is available at <http://www.iwce.org>.

The scientific program covered traditional topics of Technology CAD, Monte Carlo and molecular dynamics

methods, optical processes, quantum transport as well as emerging areas of molecular and organic electronics, and nano-bio electronics. Eight invited speakers presented their perspective on the scientific and computational challenges to be addressed, the significant advances, and the current status and directions of their fields. The scientific program consisted of 51 oral presentations and 135 poster presentations.

Over the years the workshop has become the main international forum for discussions on the current trends and future directions for computational electronics. The 11th IWCE attracted over 210 researchers from around the world. The presentations and discussions contributed to an open and stimulating intellectual atmosphere. This special issue of the Journal contains the Proceedings of the Workshop. The scientific content is organized following the thematic sessions of the Workshop.

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