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Guest editorial

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Guest editorial

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This issue contains selected papers from *Nanotech 2005*, the NSTI nanotechnology conference and trade show, held May 8th–12th at Anaheim Marriott & Convention Center, Anaheim, California. *Nanotech* is the largest international nanotechnology conference in the world providing collaborative direction to the diverse community of nanoscience, technology and business. Since its beginnings in 1998 the conference series has had a strong interest in modeling and simulation, and *Nanotech 2005* hosted several symposia in this field including the Fifth International Conference on Computational Nanoscience

and Nanotechnology, the Eighth International Conference on Modeling and Simulation of Microsystems, the 2005 Workshop on Compact Modeling, and a Special Session on Atomic and Mesoscale Modeling of Nanoscale Phenomena. In addition, modeling and simulation featured strongly in other symposia and sessions across the extensive conference programme.

The papers in this special issue deal with applications of modeling from the quantum, and molecular level all the way to device models. They provide a snapshot of research in this highly cross-disciplinary area.

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