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## Journal of Computational Electronics

Editors-in-Chief: M.V. Fischetti; S. Goodnick

- ▶ Examines the full spectrum of modeling and simulation of modern electronics
- ▶ Addresses optical, electronic, mechanical, and quantum mechanical aspects of the field
- ▶ Investigates underlying mathematical algorithms and computational details
- ▶ Draws special attention to the advances and challenges arising from applications in multiscale problems

The Journal of Computational Electronics brings together research on all aspects of modeling and simulation of modern electronics. This includes optical, electronic, mechanical, and quantum mechanical aspects, as well as research on the underlying mathematical algorithms and computational details. The related areas of energy conversion/storage and of molecular and biological systems, in which the thrust is on the charge transport, electronic, mechanical, and optical properties, are also covered.

In particular, we encourage manuscripts dealing with device simulation; with optical and optoelectronic systems and photonics; with energy storage (e.g. batteries, fuel cells) and harvesting (e.g. photovoltaic), with simulation of circuits, VLSI layout, logic and architecture (based on, for example, CMOS devices, quantum-cellular automata, QBITS, or single-electron transistors); with electromagnetic simulations (such as microwave electronics and components); or with molecular and biological systems. However, in all these cases, *the submitted manuscripts should explicitly address the electronic properties of the relevant systems, materials, or devices and/or present novel contributions to the physical models, computational strategies, or numerical algorithms.*

The Editors will emphasize advances and challenges arising from applications in multiscale problems focusing on those whose basis arises from physical and chemical sciences.

Impact Factor: 1.431 (2017), Journal Citation Reports®

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