NANO COMMUNICATION NETWORKS

AUTHOR INFORMATION PACK

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DESCRIPTION

Nano Communication Networks Journal is an international, archival and multi-disciplinary journal providing a publication vehicle for complete coverage of all topics of interest to those involved in all aspects of **nano-scale networking** and **communications**. Theoretical research contributions presenting new techniques, concepts, or analyses, applied contributions reporting on experiences and experiments, and tutorials are published.

Starting in 2010, it is planned to have four issues per year.

Nano Communication Networks is a part of COMNET (Computer Networks) family of journals within Elsevier. The family of journals covers all aspects of networking except the **nano-scale communications** subject which is the target for this newly proposed journal.

Topics of Interest:

Nano Communication Networks will be committed to the very timely publication of very high-quality, peer-reviewed, original papers that advance the state-of-the art and applications of all aspects of nano-scale networking and communications. Survey papers reviewing the state-of-the-art of timely topics will also be considered.

Topics of interest include but are not limited to:
1. **Architectures** and **Systems** for **Nanocommunications**
2. Novel Information Theory Aspects of Nanocommunications
3. **Communication Protocols** for **Nanonetworks**
4. **Nano-addressing** and **Nano-coding** for Communications
5. **Molecular Communication** aspects such as Ion Signaling, Molecular Motors, Flagellated Bacteria, Nanorods, Pheromones, Axons, Light Transducers, Capillaries
6. Quantum Theory and its Application on **Nano-Communication Networks**
7. Modeling and Simulation of Nano-Networks
8. Automata Models for Nanonetworks
9. Graph Theory Aspects of Nano-Networks
10. **Nano-Sensor Networks**: Architecture and Communication Protocols
11. **Bio-nano Applications**: Bio-micro/nanoelectronics, molecularscale chemical and biosensors, bio-MEMS technology, data and power management
12. **Networks-on-Chip** (NoC): Network architectures and topologies, NoC performance and trade-off analysis, Energy efficiency and power management, CAD flows for NoCs and MP-SoC platforms, Fault tolerance and reliability issues

13. Innovative System Interconnects: Nano-technologies and devices for on-chip interconnects (CNTs, semic., metallic and DNA-templated nanowires), Molecular, optical and wireless interconnects, Interconnects for non-charge-based devices
14. Electro-Magnetic Communication for Nanonetworks (Nanoscale Electromagnetics, Carbon Nanotubes, Propagation models for nanoscale communications, planning and optimization, nano-radios, nano-batteries, nanoscale antennas, nano-arrays, EM aspects at nanoscale, reconfigurability issues)
15. Nanonetworks in **Terahertzband**
16. Applications of Nano-Networks.

AUDIENCE

Researchers, academic personnel such as professors and graduate students, managers and operators of cross sections of interdisciplinary fields such as Electrical Engineering, Computer Science, Computer Engineering, Biology, Chemistry, Physics, Mathematics, Bioengineering, Bio-medicine, Medicine, who are interested in networking, communication, and design aspects of nano-scale devices.

ABSTRACTING AND INDEXING

Engineering Index
Scopus

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GUIDE FOR AUTHORS

INTRODUCTION
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16. Applications of Nano-Networks

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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), Introduction to the Electronic Age, E-Publishing Inc., New York, 2009, pp. 281–304.

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