The 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 nanoscale communication and networking. Theoretical research contributions presenting new techniques, concepts or analyses; applied contributions reporting on experiences and experiments; and tutorial and survey manuscripts are published.

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- Plasmonic and nanophotonic devices for THz and optical communication based on nanomaterials (e.g., graphene) and metamaterials, including compact signal sources, modulators/demodulators, detectors and antennas and antenna arrays.
- Ultra-broadband and Terahertz communications, with applications at the nano-, micro- and macro-scales.
- Nanophotonic wired and wireless communications at infra-red, visible and ultra-violet spectrum ranges.

**Other nanoscale communication paradigms**
- Nano Communication for bio-therapeutic devices.
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- Ultrasonic communications.
Nano communication engineering and networking
• Architectures and systems for Nano Communications.
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• Information Theory of Nano Communications.
• Communication protocols for Nano networks.
• Security in Nano Communications.
• Energy models for Nano Communications.
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• Wet lab experimental platforms for Molecular Communications.
• New fabrication and assembly techniques for Electromagnetic nanoscale devices.
• Synthetic Biology toolsets for engineering Molecular Communications (e.g. Openwetware, CRISPR).

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• Network on Chip including RF and optical interconnects, as well as network architectures and topologies.
• Nano-Sensor and Nano-Actuator Networks.
• Nanomedicine applications: disease localization, targeted drug delivery, tissue engineering.

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