

IEEE/ACM Transactions on Networking Home



Editor-in-Chief
tong [at] seas
[dot] upenn
[dot] edu (Roch
Guerin)

Jointly sponsored by the **IEEE Communications and Computer societies and the Association for Computing Machinery (ACM)** with its Special Interest Group on Data Communications (**SIGCOMM**).

The IEEE/ACM Transactions on Networking is committed to the timely publication of high-quality papers that advance the state of the art in communication network research. The journal publishes theoretical research presenting new techniques, concepts, or analyses and applied contributions reporting on experiences and experiments with actual systems.

The topics covered by this journal include:

- **High level objective:** to publish high-quality, original research results derived from theoretical or experimental exploration of the area of communication/computer networking, covering all sorts of information transport networks over all sorts of physical layer technologies, both wireline (all kinds of guided media: e.g., copper, optical) and wireless (e.g., radio-frequency, acoustic, underwater, infra-red), or hybrids of these. The journal welcomes applied contributions reporting on novel experiences and experiments with actual systems.
- **Network types:** IP-scale to global telecom to inter-planetary, networks-on-chip, high-speed intra-system interconnection networks, backbone and access telecom networks, logical and overlay networks, cellular mobile telecom networks, wireless local area networks, ad hoc

and mesh wireless networks, inter-vehicular networks, delay/disruption-tolerant networks, etc.

- **Networking aspects:** architecture and design (including algorithms for network resource allocation, traffic engineering, modeling, and performance analysis), protocols (including formal methods for the verification, testing, and conversion of communication protocols), network software (including software architecture and applications such as directory services, call processing, and signaling), network hardware (including novel hardware architectures, network devices, and their usage), operations and management (including network planning, evolution, reliability, and survivability), measurements (including insights gained from operational networks and network tomography), and security (including network intrusion detection and control of the spread of malicious software).
- **Application domains:** telephony (circuit and packet, voice and video), all applications traditionally associated with world-wide packet networks (file transfer, email, World Wide Web, streaming video, etc.), storage and data centers, peer-to-peer file sharing, online social networks, cyber-physical systems (including distributed sensing, function computation over networks, and control over networks), etc.
- **Interfaces with networks in other domains:** including information dissemination and related distributed systems aspects of social networks and biologically or nature-inspired techniques for communication networks, etc.

For those interested in volunteering to be on the IEEE/ACM Transactions on Networking Editorial Board, please [click here](#).



Source URL: <http://www.comsoc.org/ton>