



# COMPUTER NETWORKS

The International Journal of Computer and Telecommunications Networking

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### DESCRIPTION

*Computer Networks* is an international, archival journal providing a publication vehicle for complete coverage of all topics of interest to those involved in the **computer communications networking** area. The audience includes researchers, managers and operators of networks as well as designers and implementors. The [Editorial Board](#) will consider any material for publication that is of interest to those groups.

### SUBJECT COVERAGE

The topics covered by the journal but not limited to these are:

#### 1. **Communication Network Architectures:**

New design contributions on Local Area Networks (LANs), Metropolitan Area Networks (MANs), Wide Area Networks (WANs) including Wired, Wireless, Mobile, Cellular, Sensor, Optical, IP, ATM, and other related network technologies, as well as new switching technologies and the integration of various networking paradigms.

#### 2. **Communication Network Protocols:**

New design contributions on all protocol layers except the Physical Layer, considering all types of networks mentioned above and their performance evaluation; novel protocols, methods and algorithms related to, e.g., medium access control, error control, routing, resource discovery, multicasting, congestion and flow control, scheduling, multimedia quality of service, as well as protocol specification, testing and verification.

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Web, Web caching, Web performance, Middleware and operating system support for all types of networking, electronic commerce, quality of service, new adaptive applications, and multimedia services.

#### 4. **Network Security and Privacy:**

Security protocols, authentication, denial of service, anonymity, smartcards, intrusion detection, key management, viruses and other malicious codes, information flow, data integrity, mobile code and agent security.

#### 5. **Network Operation and Management:**

Including network pricing, network system software, quality of service, signaling protocols, mobility management, power management and power control algorithms, network planning, network dimensioning, network reliability, network performance measurements, network modeling and analysis, and overall system management.

## 6. **Discrete Algorithms** and **Discrete Modeling**

Algorithmic and discrete aspects in the context of computer networking as well as mobile and wireless computing and communications. Fostering cooperation among practitioners and theoreticians in this field.

### TYPES OF CONTRIBUTIONS CONSIDERED

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## **AUDIENCE**

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Managers and Operators of Networks as well as Designers, Implementors, Researchers, Regulatory Lawyers, Economists, Policy Analysts and Sociologists specializing in the area.

## **IMPACT FACTOR**

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### *INTRODUCTION*

Welcome to the online submission and editorial system for *Computer Networks*.

*Computer Networks* is an international, archival journal providing a publication vehicle for complete coverage of all topics of interest to those involved in the computer communications networking area. The audience includes researchers, managers and operators of networks as well as designers and implementors. The Editorial Board will consider for publication any material that is of interest to those groups.

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1. Communication Network Architectures
2. Communication Network Protocols
3. Network Services and Applications
4. Network Security and Privacy
5. Network Operation and Management
6. Discrete Algorithms and Discrete Modeling

### *Types of paper*

The primary purpose of the journal is to publish original and complete papers covering a specific topic or project in the above mentioned areas in sufficient detail and depth to be of practical use to interested readers. The readers should benefit from the novel solutions and analyses presented in the papers. Enhanced, extended versions of quality papers presented at conferences or workshops can be submitted to our journal for review. Note that papers which were already published with the same contents or simultaneous submission of the same paper to other journals or conferences will not be considered for publication in our journal and will be immediately rejected.

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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.

Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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