

# **Call For Papers**

## **IEEE Communications Magazine**

Special Issue on

### **Telecommunication Networks Security**

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The worldwide growth of telecommunication networks, as well as their integration with other open-network technologies such as the Internet, has led to universal connectivity increase and made available new network services. Security in telecommunication networks has become a major concern in national and international level, since traditional and new security threats have to be dealt in very large-scale networks.

Traditionally, work on network security has dealt with lower-level protocols such as TCP/IP security as well as application-level security that involves issues such as user privacy and anonymity. There is a growing interest though on security of telecommunication networks, an interest that spans hardware and software middleware. On one hand, new telecommunication network architectures have been proposed – wireless or wired – which explore the advantages of distributed technologies. On the other hand, new end-to-end and/or middleware services have been made available to terminal users. Security issues involve both the network infrastructure, as well as the services provided by the network.

This special issue will address among others the following issues:

- Security analysis in telecommunication network protocols
- Security of infrastructure and systems that form telecommunication networks
- Attacks and countermeasures
- Privacy, integrity and anonymity of users
- Key escrow and fairness in telecommunication protocols
- Authentication and authorization

- Intrusion detection and response
- Denial-of-Service and counter measures
- Survivability in large scale attacks or physical disasters
- Traceability
- Multicast communication security
- Security for wireless telecommunication networks
- Efficiency analysis in the presence of security technologies
- New threats and attacks in telecommunications
- Security and active networks
- Intelligent network security.

Papers can be of a tutorial nature or present new research and development material. Authors must follow the IEEE Communications Magazine guidelines regarding the manuscript and its format. For details, please refer to the "Information for Authors" in the IEEE Communications Magazine website ([http://www.comsoc.org/livepubs/ci1/sub\\_guidelines.html](http://www.comsoc.org/livepubs/ci1/sub_guidelines.html)).

Please submit your electronic manuscript in PDF or Postscript to the guest editor by February 28, 2002. Earlier submissions are encouraged to allow for a better issue planning.

**Timetable:**

Deadline for paper submission: February 28, 2002

Papers accepted: May 1, 2002

Final versions due: June 1, 2002

Publication: October 2002