• Workshop on Security in Systems and Networks

Workshop Description:

The proliferation of Internet services and applications is bringing systems and network security issues to the fore. The past few years have seen significant increase in cyber attacks on the Internet, resulting in degraded confidence and trusts in the use of Internet and computer systems. There is an increasing demand for measures to guarantee the privacy, integrity, and availability of resources in distributed systems, such as Grid and P2P systems. The attacks, including DDoS, email virus, and worms, are getting more sophisticated, spreading faster, and causing more damages. The attacks originally exploited the weakness of the individual protocols and operating systems, but now also have started to attack the basic infrastructure of the Internet. There is a consensus that a key contributing factor leading to cyber threats is the lack of integrated and cohesive strategies that extend beyond the network level, to protect the applications and devices at system level as well. Many techniques, algorithms, protocols and tools have been developed in the different aspects of cybersecurity, namely, authentication, access control, availability, integrity, privacy, confidentiality and non-repudiation as they apply to both networks and systems. This workshop aims to bring together the technologies and researchers who share interest in the area of network and distributed system security. The main purpose is to promote discussions of research and relevant activities in security-related subjects. It also aims at increasing the synergy between academic and industry professionals working in this area.

Topics of interest include but are not limited to:

- Ad hoc and sensor network security
- Cryptographic algorithms and distributed digital signatures
- Distributed denial of service attacks
- Distributed intrusion detection and protection systems
- Firewall and distributed access control
- Grid computing security
- Key management
- Network security issues and protocols
- Mobile codes security and Internet Worms
- Security in e-commerce
- Security in peer-to-peer and overlay networks
- Security in mobile and pervasive computing
- Security architectures in distributed and parallel systems
- Security theory and tools in distributed and parallel systems
- Video surveillance and monitoring systems
- Information hiding and multimedia watermarking in distributed systems
- Web content secrecy and integrity

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