

Cyberspace Security Issues and Challenges

Speaker: Dr. Manu Malek, Professor of Computer Science, Stevens Institute of Technology, IEEE Fellow, and Communications Society Distinguished Lecturer

Time: 6:00 PM (pizza & soda),
6:30 PM presentation

Fee: \$1 donation to partially cover food cost

Place: National Semiconductor Credit Union,
Bldg. 31, 955 Kifer Rd., Sunnyvale

RSVP: required, to rsvp@comsocscv.org

Web: www.comsocscv.org

Cyberspace is used extensively for commerce. Businesses that accept transactions via the Internet can gain a competitive edge by reaching a worldwide customer base at a relatively low cost. But the Internet poses a unique set of security issues due to its openness and ubiquity. Customers will submit information via the Web/Internet only if they are confident that their private information, such as their credit card numbers, is secure. Therefore, today's Web/Internet-based services must include solutions that provide security as a primary component in their design and deployment.

This talk will provide an overview of cyberspace security vulnerabilities, attacks, and safeguards. Some attack techniques and the corresponding defenses against them will be described. The anatomy of a specific attack will be presented. Also some techniques based on data mining will be provided to detect and even predict attacks.

Manu Malek is Industry Professor of Computer Science and Director, Certificate in CyberSecurity Program, at Stevens Institute of Technology. Prior to joining Stevens, he was a Distinguished Member of the Technical Staff at Lucent Technologies Bell Laboratories.



He has more than 20 years of experience in teaching, practicing, and research in communication networks design, optimization, operations, and management. He has held various academic positions in the US and overseas, as well as technical management positions with Bellcore (now Telcordia Technologies) and AT&T Bell Laboratories.

He is the author, co-author, or editor of seven books, co-holder of two patents, and the author or co-author of over fifty published technical papers and numerous technical reports in the areas of network design, computer communications, and network operations and management.

Dr. Malek is a fellow of the IEEE, an IEEE Communications Society Distinguished Lecturer, and the founder and Editor-in-Chief of the Journal of Network and Systems Management. He earned his PhD in EE/CS from the University of California, Berkeley.