

Computer Security From the Trojan War to Now

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Abstract:

Those who fail to study history are doomed to repeat it.” This history of computer and network security has an unfortunate habit of repeating itself. Although one may think that virus attacks are a phenomenon of just the past few years, in fact they, and other computer security problems have been with us for several decades. The unsolvable problems of the past remain unsolved. But worse, some lessons learned the hard way a long time ago are being relearned today.

This talk will cover the highlights of the history of security, with special emphasis on past problems and solutions that should be known by modern computer security professionals. The talk will identify some of the fundamental work in and pioneers in computer security, and show the relationships between their contributions and the current computer security situation.

Charles P. Pfleeger is a Master Security Architect with Exodus Communications, in the Security Services practice. Exodus is the premiere infrastructure provider for complex, mission-critical Internet applications. Dr. Pfleeger consults for a variety of customers, in the areas of secure architecture design and analysis, security policy development, testing, incident handling, and management. He was Director of Research and a Senior Security Analyst for Arca Systems, which was acquired by Exodus. Prior to working for Arca, he was Director of European Operations and a Principal Computer Scientist with Trusted Information Systems and before that was a professor of computer science at the University of Tennessee.

Dr. Pfleeger is the author of a leading college textbook in computer security, Security in Computing, and of other books, articles and papers. He is the past chair of the IEEE Computer Society Technical Committee on Security and Privacy.