

Welcome
Seminar Series of the Department of Computer Science Electrical
Engineering
Presents

Modern Cryptography: Development and Research
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Abstract

Modern cryptography, also known as public-key cryptography, was invented in 1876. In this seminar, we will address the historical review of the developmental events and technical requirements of public-key cryptography. Public-key cryptography is essential in providing e-commerce with security services, such as data confidentiality, user authentication and non-repudiation services. We will also cover the trend of modern cryptography research and I will include my own research interests.

Dr. Lein Harn: Dr. Harn received his Bachelor of Science degree in Electrical Engineering from the National Taiwan University in 1977. In 1980, he received his MS in Electrical Engineering from the State University of New York-Stony Brook and in 1984 he received his doctorate degree in Electrical Engineering from the University of Minnesota. He joined as an Assistant Professor in the department of Electrical and Computer Engineering at the University of Missouri-Columbia in 1984 and in 1986, he moved to Computer Science and Telecommunication Program (CSTP) of University of Missouri-Kansas City (UMKC). While at UMKC he went on development leave to work in Racal Data Group in Florida for a year. His research interests are cryptography, network security and wireless communication security. He has published a large number of papers on digital signature design and applications, Security and Cryptography in top rated journals and conferences. He has written two books on Security. At present he is investigating new ways of using digital signature.
