



THE CHINESE UNIVERSITY OF HONG KONG
In Celebration of the 20th Anniversary of
Faculty of Engineering
Department of Information Engineering
Seminar



The Dependability of Complex Socio-Technical Infrastructure

by

Professor Ross Anderson
Professor of Security Engineering
Cambridge University
U.K.

Date : 23 May, 2011 (Mon.)
Time : 10:00am - 11:00am
Venue : Room 833, Ho Sin Hang Engineering Building
The Chinese University of Hong Kong

Abstract

We have all become dependent on large complex systems such as the Internet, smart grids and the bank payment system. Keeping these systems dependable in the face of accidents, errors and malice is one of the most important, and interesting, challenges facing engineers today. It brings not only technical problems of the highest order, but also some intricate economics; how do we persuade firms to invest in spare capacity that will mostly help their competitors offer better service? I'll discuss such problems in two contexts: frauds against payment networks, and the resilience of the Internet. My talk will draw on a recent major study we did for ENISA of the resilience of the Internet interconnect.

Biography

Professor Ross Anderson is Professor of Security Engineering at Cambridge University, and author of the bestselling textbook "Security Engineering: A Guide to Building Dependable Distributed Systems". He was a pioneer of peer-to-peer systems, of hardware tamper-resistance, and of the economics of information security. Professor Anderson is a FRS and FREng.

**** ALL ARE WELCOME ****

Host: Professor Jeff Yan (Tel: 2609-8391, Email: jxyan@ie.cuhk.edu.hk)
Enquiries: Information Engineering Dept., CUHK (Tel.: 2609-8385)