

Prof. Kouichi SAKURAI

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Course Name: EM609E: Cyber Security

The period of stay: February 01-08, 2016



1. Brief writeup about the technical content of lectures delivered

Introduction, Basic concepts: threats, vulnerabilities, controls; risk; confidentiality, integrity, availability etc.. Cryptographic background for Applied Cyber Security, Public-key infrastructure, New Crypto Currency, History of Digital-money including basic techniques, Bitcoin as a new Crypto Currency, Web-Forensic, Forensic vs. Anti-forensic in Biometrics, Mobile Security, Network-Storage Security including Secret Sharing, Mathematical & coding theory background, Network Security including malware, BotNet- prevention

2. Numbers of students: 78

3. Brief write-up about the present, including his affiliation, academic credentials, etc.

He was engaged in research and development on cryptography and information security at the Computer and Information Systems Laboratory at Mitsubishi Electric Corporation from 1988 to 1994. From 1994, he worked for the Dept. of Computer Science of Kyushu University in the capacity of associate professor, and became a full professor there in 2002. He is concurrently working also with the Institute of Systems & Information Technologies and Nanotechnologies, as the chief of Information Security laboratory, for promoting research co-operations among the industry, university and government under the theme "Enhancing IT-security in social systems". He has been successful in generating such co-operation between Japan, China and Korea for security technologies as the leader of a Cooperative International Research Project supported by the National Institute of Information and Communications Technology (NICT) during 2005-2006. Moreover, in March 2006, he established research co-operations under a Memorandum of Understanding in the field of information security with Professor Bimal Kumar Roy, the first time Japan has partnered with The Cryptology Research Society of India (CRSI).

4. Photo while he is delivering lecture or engaged with students

