

Chapter Activities :

Information Security Summer School (ISSS), 2010

Course	Information Security Summer School (ISSS), 2010
Hosts	Shiuhpyng Shieh and D.T. Lee
Sponsors	Academician of Sinica, Research Center for Information Technology Department of Computer Science, Nat'l Chiao Tung University TWISC@NCTU(Taiwan Information security center at National Chiao Tung University)
Co-sponsors	IEEE Reliability Society Taipei/Tainan Chapter
Location	Engineering Building No.3, NCTU, Hsinchhu, Taiwan
Dates	July 13 th ~23 th ,2010
Attendees	126
Members	18
Abstract	<p>Due to the growing demand in security, the Department of Computer Science, TWISC@NCTU, and Academia Sinica hold a series of summer courses. This course will cover the cutting edge security technologies. Through the discussions of this course, students from many universities in Taiwan can raise their knowledge and technical proficiency in a wider global perspective.</p>
Website	http://dsns.cs.nctu.edu.tw/summer/#1

I. Angenda:

Date	Time	Lecturer	Topic
7/13 (Tue.)	8:30~9:00	Check in and morning sign in	
	9:00~9:05	Der-Tsai, Lee Academician of Academia Sinica	Opening Remarks
	9:05~9:50	Prof. Shiuhyng Shieh National Chiao Tung University	Introduction to Course/Cloud Computing Security
	9:50~10:00	Break	
	10:00~10:50	Prof. Chin-Laung Lei National Taiwan University	Zero Knowledge Proofs and Its Applications in Identity Verification
	10:50~11:00	Break	
	11:00~11:50	Prof. Chin-Laung Lei National Taiwan University	Zero Knowledge Proofs and Its Applications in Identity Verification
	11:50~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:30	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Hsi-Lu Chao National Chiao Tung University	WSBW: WiMAX detect and scan for weakness of broadband by user
	14:20~14:30	Break	
	14:30~15:20	Prof. Rong-Jaye Chen National Chiao Tung University	Pairing Based Cryptography and its Applications
	15:20~15:30	Break	
15:30~16:20	Prof. Rong-Jaye Chen National Chiao Tung	Pairing Based Cryptography and its Applications	

		University	
	16:20~17:00	TA time : Discussion/Quiz/Homework/Report	
7/14 (Wed.)	8:50~9:00	Morning sign in	
	9:00~9:50	Prof. Nen-Fu Huang National Tsing Hua University	Fast Deep Packet Inspection Technologies and Applications
	9:50~10:00	Break	
	10:00~10:50	Prof. Nen-Fu Huang National Tsing Hua University	Fast Deep Packet Inspection Technologies and Applications
	10:50~11:20	Q & A	
	11:20~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:20	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Tsung-Cheng Wu National Taiwan University of Science and Technology	Information Security strategy and future trend
	14:20~14:30	Break	
	14:30~15:20	Prof. Tsung-Cheng Wu National Taiwan University of Science and Technology	Information Security strategy and future trend
	15:20~16:00	Q & A	
	16:00~16:30	TA time : Discussion/Quiz/Homework/Report	
7/15 (Thu.)	8:50~9:00	Morning sign in	
	9:00~10:00	Prof. Wen-Guey Tzeng National Chiao Tung University	Secure Distributed Networked Storage
	9:50~10:00	Break	
	10:00~10:50	Prof. Hung-Min Sun National Tsing Hua University	On the Security of RFID

	10:50~11:00	Break	
	11:00~11:50	Prof. Hung-Min Sun National Tsing Hua University	On the Security of RFID
	11:50~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:20	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Hahn-Ming Lee National Taiwan University of Science and Technology	Social network and Internet network security (or Internet social network security)
	14:20~14:30	Break	
	14:30~15:20	Prof. Hahn-Ming Lee National Taiwan University of Science and Technology	Social network and Internet network security (or Internet social network security)
	15:20~16:00	Q & A	
	16:00~16:30	TA time : Discussion/Quiz/Homework/Report	
7/16 (Fri.)	8:50~9:00	Morning sign in	
	9:00~9:50	Prof. Lein Harn University of Missouri-Kansas City	Secret Sharing and Related Research
	9:50~10:00	Break	
	10:00~10:50	Prof. Lein Harn University of Missouri-Kansas City	Secret Sharing and Related Research
	10:50~11:20	Q & A	
	11:20~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:20	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Shih-Kun Huang National Chiao Tung University	CT-Exploit: Controllable Taintedness for Automated Exploit Generator

14:20~14:30	Break	
14:30~15:20	Prof. Yu-Sung Wu National Chiao Tung University	Intrusion Detection and Response
15:20~15:30	Break	
15:30~16:20	Prof. Yi-Ping You National Chiao Tung University	Software Security
16:20~15:00	TA time : Discussion/Quiz/Homework/Report	

Date	Time	Lecturer	Topic
7/19 (Mon.)	8:50~9:00	Morning sign in	
	9:00~09:50	Prof. Gene Tsudik University of California, Irvine	Usable Security: User-aided association of wireless devices + User interface with RFID tags
	9:50~10:00	Break	
	10:00~10:50	Prof. Gene Tsudik University of California, Irvine	Usable Security: User-aided association of wireless devices + User interface with RFID tags
	10:50~11:20	Q & A	
	11:20~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:20	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Gene Tsudik University of California, Irvine	Privacy-Preserving Sharing of Sensitive Information (Private set operations, etc.)
	14:20~14:30	Break	
	14:30~15:20	Prof. Gene Tsudik University of California, Irvine	Privacy-Preserving Sharing of Sensitive Information (Private set operations, etc.)
	15:20~16:00	Q & A	
	16:00~16:30	TA time : Discussion/Quiz/Homework/Report	

7/20 (Tue.)	8:50~9:00	Morning sign in	
	9:00~09:50	Prof. Ravi Sandhu University of Texas	Security Models: Past, Present and Future
	9:50~10:00	Break	
	10:00~10:50	Prof. Ravi Sandhu University of Texas	Security Models: Past, Present and Future
	10:50~11:20	Q & A	
	11:20~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:20	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Ravi Sandhu University of Texas	Security Models: Past, Present and Future
	14:20~14:30	Break	
	14:30~15:20	Prof. Ravi Sandhu University of Texas	Security Models: Past, Present and Future
	15:20~16:00	Q & A	
	16:00~16:30	TA time : Discussion/Quiz/Homework/Report	
	7/21 (Wed.)	8:50~9:00	Morning sign in
9:00~09:50		Dr. Sam Keene VP, IEEE RS	Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems
9:50~10:00		Break	
10:00~10:50		Dr. Sam Keene VP, IEEE RS	Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems
10:50~11:20		Q & A	
11:20~12:00		TA time : Discussion/Quiz/Homework/Report	
12:00~13:20		Lunch break	
13:20~13:30		Afternoon sign in	
13:30~14:20		Dr. Sam Keene VP, IEEE RS	Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems
14:20~14:30		Break	
14:30~15:20		Dr. Sam Keene VP, IEEE RS	Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems
15:20~16:00		Q & A	

	16:00~16:30	TA time : Discussion/Quiz/Homework/Report	
7/22 (Thu.)	8:50~9:00	Morning sign in	
	9:00~09:50	Prof. Felix Wu University of Davis	Online Social Network Systems
	9:50~10:00	Break	
	10:00~10:50	Prof. Felix Wu University of Davis	Online Social Network Systems
	10:50~11:20	Q & A	
	11:20~12:00	TA time : Discussion/Quiz/Homework/Report	
	12:00~13:20	Lunch break	
	13:20~13:30	Afternoon sign in	
	13:30~14:20	Prof. Felix Wu University of Davis	Online Social Network Systems
	14:20~14:30	Break	
	14:30~15:20	Prof. Felix Wu University of Davis	Online Social Network Systems
	15:20~16:00	Q & A	
	16:00~16:30	TA time : Discussion/Quiz/Homework/Report	
	7/23 (Fri.)	8:50~9:00	Morning sign in
9:00~09:50		Prof. Jun Li Tsinghua University	Recent Advances in Packet Classification for Network Security
9:50~10:00		Break	
10:00~10:50		Prof. Jun Li Tsinghua University	Recent Advances in Packet Classification for Network Security
10:50~11:20		Q & A	
11:20~12:00		TA time : Discussion/Quiz/Homework/Report	
12:00~13:20		Lunch break	
13:20~13:30		Afternoon sign in	
13:30~14:20		Prof. Jun Li Tsinghua University	Recent Advances in Pattern Matching for Network Security
14:20~14:30		Break	
14:30~15:20		Prof. Jun Li	Recent Advances in Pattern Matching for Network

	Tsinghua University	Security
15:20~16:00	Q & A	
16:00~16:30	TA time : Discussion/Quiz/Homework/Report	

III.Photos:



July 12th,2010, Opening



Opening

Speaker : Der-Tsai, Lee
Academician of Academia Sinica



Opening

Speaker : Der-Tsai, Lee
Academician of Academia Sinica



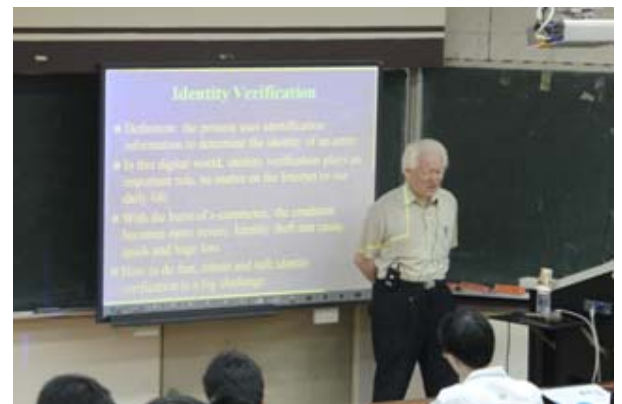
Introduction to Course/Cloud Computing Security

Speaker : Prof. Shiuhyng Shieh
National Chiao Tung University



Introduction to Course/Cloud Computing Security

Speaker : Prof. Shiuhyng Shieh
National Chiao Tung University



Zero Knowledge Proofs and Its Applications in Identity Verification

Speaker : Prof. Chin-Laung Lei
National Taiwan University



WSBW: WiMAX detect and scan for weakness of broadband by user

Speaker : Prof. Hsi-Lu Chao
National Chiao Tung University



Secret Sharing and Related Research

Speaker : Prof. Lein Harn
University of Missouri-Kansas City

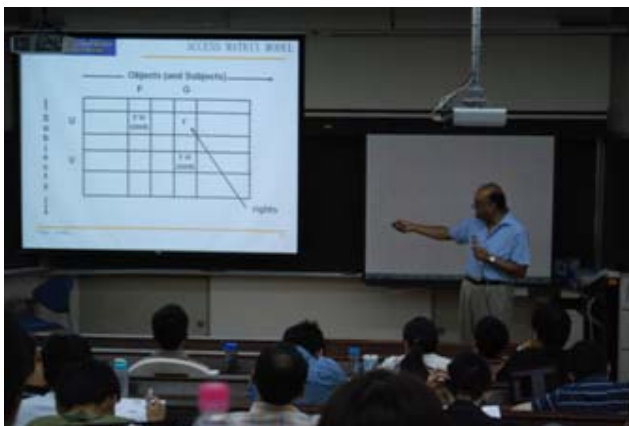


**Usable Security: User-aided association of wireless devices
+ User interface with RFID tags**

Speaker : Prof. Gene Tsudik
University of California, Irvine



During the class



Security Models: Past, Present and Future

Speaker : Prof. Ravi Sandhu
University of Texas



Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems

Speaker : Dr. Sam Keene
VP, IEEE RS



Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems
Speaker : Dr. Sam Keene
VP, IEEE RS



Six Sigma Tools You Can Use to Build Better, More Trustworthy Systems
Speaker : Dr. Sam Keene
VP, IEEE RS



Recent Advances in Pattern Matching for Network Security
Prof. Jun Li
Tsinghua University



Online Social Network Systems
Prof. Felix Wu
University of Davis

IV. Conclusion:

There are 126 people participating in this course including 18 experienced speakers in security related fields and 108 students from 16 different colleges. The department of Computer Science of NCTU provided the auditorium and has made the course possible. We truly appreciate every one that contributed to this course. Without the contributions from Academia Sinica and NCTU, the course would not have been of a great success. Through the course, over 30 attendees submitted their applications to become IEEE Reliability Society members.