

Summer Workshop on Distributed Computing, Networking and Security with Applications

Innovative Curriculum for Undergraduate Computer Science and Engineering Students

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Location: CSB 232

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August 2, 2004 – August 6, 2004

8/2/04

- 9:00 -9:30 am Welcoming Remarks and Overview of the Workshop
Ratan Guha
- 9:30 – 10:30 am Course on Modern Computer Networks
Ratan Guha and William Allen
- 10:30 – 11:00 am Coffee Break
- 11:00 – 12:15 pm Course on Modern Computer Networks - Continued
Ratan Guha and William Allen
- 12:15 – 1:30 pm Lunch Break
- 1:30 – 5:00 pm Computer Networks Laboratory – CC-I 204
William Allen and Graduate Students
- 5:30 – 7:30 Reception

8/3/04

- 9:00 – 10:45 am Distributed Computing and Security
Ratan Guha and Joohan Lee
- 10:45 – 11:00 am Coffee Break
- 11:00 – 12:15 pm Modern Wireless Networks
Mainak Chatterjee
- 12:15 – 1:30 pm Lunch Break
- 1:30 – 5:00 pm Distributed Computing and security Laboratory – CSB 108
Ratan Guha, Joohan Lee, Oleg Kachirski and Pankaj Gupta

8/4/04

- 9:00 – 10:30 am Performance Evaluation Methods and Their Applications in
Wireless and Optical Networks
Mostafa Bassiouni
- 10:30 – 11:00 am Coffee Break
- 11:00 – 12:15 pm Performance Evaluation Methods and Their Applications in
Wireless and Optical Networks
Mostafa Bassiouni
- 12:15 – 1:30 pm Lunch Break

1:30 – 3:00 pm Presentation by Undergraduate Students
“Analyzing Rule Based, and Adaptive Case Based Reasoning Architectures for Intruder Detection Systems”
Timothy Crofton
“High Level Architecture”
Bryant Mayfield and Steve Giovenco

3:00 – 3:30 pm Coffee Break

3:30 – 5:00 pm “Malicious Code Detection”
Helen Welch
“NTRU”
Chau Ngo-Thu Trinh
“A Cluster based Security Architecture for Ad-Hoc Networks”
Chau Ngo-Thu Trinh, Chau Ngo

8/5/04

9:00 - 10:30 am Module on Cryptography and Network Security
Ratan Guha, Joohan Lee and Gerald Marin

10:30 – 11:00 am Coffee Break

11:00 - 12:30 pm Module on Cryptography and Network Security
Ratan Guha, Joohan Lee and Gerald Marin

12:30 - 1:30 pm Lunch

1:30 – 3:00 pm Presentation by Invited Faculty Members
“Running Cipher Contests”
Arup Guha
“Strand Space Model: Formal Analysis of Security Protocols”
Deidre W. Evans, Ratan K. Guha, Zeeshan Furqan and Shahabuddin Muhammad

3:00 – 3:30 pm Coffee Break

3:30 – 5:00 pm Presentation by Invited Faculty Members
“Genetic Algorithm Approach for Intrusion Detection”
Y. B. Reddy
“On Survivability and Security in Wireless Infrastructure Networks and their Interaction”
Yi Qian

8/6/04

9:00 – 10:30 am Presentation of Research by Graduate students
“High Performance RTI-based Parallel Simulation: Past, Present, & Future”
Pankaj Gupta and Ratan Guha
“Access Game: Fair Bandwidth Sharing in Distributed Systems through a Game Theoretic Framework”
Sudipta Rakshit and Ratan Guha

“Geolocation-based Routing in Wireless Ad-hoc Networks”

Bin Zhou and Mostafa Bassiouni

10:30 – 11:00 am

Coffee Break

11:00 – 12:15 pm

Discussion and Conclusions

All participants