

Wireless Security and Privacy (WiSP)

Message from the Workshop Chairs

Welcome to WiSP 2008, the 1st International Workshop on Wireless Security and Privacy held in conjunction with the 28th International Conference on Distributed Computing Systems (ICDCS 2008).

Wireless networks have experienced an explosive growth during the last few years. Nowadays, there exist a large variety of networks spanning from the well-known cellular networks to non-infrastructure wireless networks such as mobile ad hoc networks and sensor networks. The security issues are the central concern in these networks. They include authentication and access control, cryptographic protocol, experimental studies, key management, information hiding, intrusion detection and response, privacy and anonymity, secure localization and synchronization, security policy and enforcement issues, security protocols design, analysis, and verification, secure routing/MAC, surveillance and monitoring, threat/trust management, and tradeoff between security and performance such as QoS, dependability, scalability, and so on. The WiSP'08 workshop aims to provide a forum for continued research activity in such areas, to allow interaction of researchers and practitioners, and to give attendees of ICDCS 2008 an opportunity to network with experts in wireless security and privacy.

In response to the call for papers; the workshop received 20 submissions. Each paper went through 2-4 reviews by program committee members and external experts. The program committee made the final selection based on the review reports as well as space and time constraints. As a result, 11 regular papers and 1 invited keynote speech will be presented at WiSP 2008.

The technical program for WiSP 2008 is the result of the hard work of many authors, reviewers, and program committee members. We are grateful to them for their help and investing time and energy in the development of a high quality technical program. We must acknowledge the ICDCS 2008 Workshop Chairs, Professor Makoto Takizawa (Tokyo Denki University) and Professor Zhiyong Liu (ICT/Chinese Academy of Sciences), and ICDCS 2008 Local Chair, Professor Fang Liu (ICT/Chinese Academy of Sciences) for their help in organizing this workshop. We also appreciate the advice and support from our WiSP 2008 Steering Committee member, Professor Jie Wu (Florida Atlantic University & US National Science Foundation).

We hope you will enjoy WiSP2008 and benefit from the presentations and discussions!

Workshop Chair

Sajal Das, University Texas at Arlington, USA

Program Co-Chairs

Zhen Jiang, West Chester University, USA

Xiao Chen, Texas State University, USA

WiSP Workshop Organization

Workshop Chair

Dr. Sajal Das, University Texas at Arlington, USA

Program Co-Chairs

Dr. Zhen Jiang, West Chester University, USA

Dr. Xiao Chen, Texas State University, USA

Steering Committee

Jie Wu, National Science Foundation & Florida Atlantic University, USA

Program Committee

A. Agah, West Chester University, USA
R. Beyah, Georgia State University, USA
A. Bourgeois, Georgia State University, USA
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H. Song, Frostburg State University, USA
A. Weimerskirch, Escrypt Inc. - Embedded Security, USA
N. Xiao, National University of Defense Technology, China
Y. Xia, University of Florida, USA
S. Yang, Rensselaer Polytechnic Institute, USA
W. Zhang, Iowa State University, USA

WiSP'08 Workshop Program

Friday, June 20th, 2008
Beijing, China

Opening (9:00-9:10): Introduction to WiSP'08

Dr. Sajal Das
University of Texas at Arlington
USA

Dr. Zhen Jiang
West Chester University
USA

Dr. Xiao Chen
Texas State University
USA

Keynote Speech (9:10-10:30)

"Research Trend and Challenges in Security and Privacy".

Dr. David Du, University of Minnesota & National Science Foundation, USA

Break (10:30-11:00)

Session A (11:00-12:30): Detections and Reputation Management

Chair: Dr. X. Zou, Purdue University at IUPUI, USA

1	Compromised Sensor Nodes Detection: A Quantitative Approach	T. Li (University of Toledo, USA), M. Song (Old Dominion University, USA), M. Alam (University of Toledo, USA)
2	Anonymous Misbehavior Detection in Mobile Ad Hoc Networks	B. Zhu (Concordia University, Canada), K. Ren (Illinois Institute of Technology, USA), L. Wang (Concordia University, Canada)
3	A Novel CDS-based Reputation Monitoring System for Wireless Sensor Networks	A. Srinivasan, F. Li, J. Wu (Florida Atlantic University, USA)
4	ARM: An Account-based Hierarchical Reputation Management System for Wireless Ad Hoc Networks	H. Shen, Z. Li (University of Arkansas at Fayetteville, USA)

Lunch (12:30 - 14:00)

Session B (14:00-15:30): Key Agreement and Management

Chair: Dr. H. Shen, University of Arkansas at Fayetteville, USA

5	LEAP++: A Robust Pairwise Key Establishment Scheme for Wireless Sensor Networks	C. Lim (Sejong University, Korea)
6	Pairing Devices with Good Quality Output Interfaces	N. Saxena, J. Voris (Polytechnic University, USA)
7	Optimized User revocation for Group Signature Based Privacy-aware PIK	W. Ren (Illinois Institute of Technology, USA), K. Ren (Illinois Institute of Technology, USA), W. Lou (Worcester Polytechnic Institute, USA)

Break (15:30-16:00)

Session C (16:00-17:30): Methodology and Protocol

Chair: Dr. W. Lou, Worcester Polytechnic Institute, USA

8	Quality-of-Protection (QoP): A Quantitative Methodology to Grade Security Services	A. Kumar, Y. Sun (University of Louisville, USA)
9	n-LDA: n-Layers Data Aggregation in Sensor Networks	I. Rodhe, C. Rohner (Uppsala University, Sweden)
10	Notes on the CRTDH Group Key Agreement Protocol	S. Magliveras (Florida Atlantic University, USA), W. Wei (Florida Atlantic University, USA), X. Zou (Purdue University at IUPUI, USA)
11	Preserving Source-Location Privacy in Energy-Constrained Wireless Sensor Networks	J. Yao, G. Wen (University of Electronic Science & Technology, China)