



SecureComm 2008

The 4th International Conference on Security and Privacy in Communication Networks
September 22-25, 2008, Istanbul, Turkey

CONFERENCE PROGRAM

Tuesday, 23 September

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| 08:00 – 09:00 | Registration |
| 09:00 – 09:15 | Welcoming Remarks <i>Albert Levi, Peng Liu, Refik Molva</i> |
| 09:15 – 10:15 | INVITED TALK: Dr. Detlef Eckert, European Commission, Information Society and Media DG Information Security: The Good, the Bad, and the Ugly Session chair: <i>Peng Liu</i> |
| 10:15 – 10:45 | Coffee-break |
| 10:45 – 12:15 | Session 1: Network Intrusion Detection I Session chair: <i>Ahmet Camtepe</i> |
| | Efficient Signature Matching with Multiple Alphabet Compression Tables <i>Shijin Kong, Randy Smith, Cristian Estan</i> University of Wisconsin—Madison |
| | Correlation-based Load Balancing for Network Intrusion Detection and Prevention Systems <i>Anh Le¹, Ehab Al-Shaer², Raouf Boutaba¹</i> ¹ University of Waterloo ² DePaul University |
| | Distributed Flow Detection over Multi Path Session <i>Eyal Felstaine, E. Chai, Niv Gilboa, Avi Elisha</i> Ben Gurion University |
| 12:15 – 13:45 | Lunch |
| 13:45 – 15:15 | Session 2: Wireless Network Security I Session chair: <i>Alessandro Mei</i> |
| | Relaxed Authenticity for Data Aggregation in Wireless Sensor Networks <i>Erik-Oliver Blass, Joachim Wilke, Martina Zitterbart</i> Universität Karlsruhe |
| | Source Location Privacy against Laptop-Class Attacks in Sensor Networks <i>Yi Ouyang, Zhengyi Le, Donggang Liu, James Ford, Fillia Makedon</i> University of Texas at Arlington |
| | Securely Computing an Approximate Median in Wireless Sensor Networks <i>Sankardas Roy¹, Mauro Conti², Sanjeev Setia¹, Sushil Jajodia¹</i> ¹ George Mason University ² Università di Roma 'La Sapienza' |





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| 15:15 – 15:45 | Coffee-break |
| 15:45 – 17:45 | Session 3: Reputation Management, Storage Server Security, and IBE Session chair: <i>Urs Hengartner</i> |
| | Sybil Proof Anonymous Reputation Management <i>Wolf Muller¹, Henryk Plotz¹, Jens-Peter Redlich¹, Takashi Shiraki²</i> ¹ Humboldt University Berlin ² NEC Corporation |
| | RepTrap: A Novel Attack on Feedback-based Reputation Systems <i>Yafei Yang¹, Qinyuan Feng², Yan Sun¹, Yafei Dai²</i> ¹ University of Rhode Island ² Peking University |
| | Scalable and Efficient Provable Data Possession <i>Giuseppe Ateniese¹, Roberto Di Pietro², Luigi Vincenzo Mancini³, Gene Tsudik⁴</i> ¹ John Hopkins University ² Università di Roma Tre ³ Università di Roma "La Sapienza" ⁴ University of California, Irvine |
| | An Identity-Based Key Infrastructure Suitable for Messaging Applications <i>Erkay Savas, Ayse Gul Karatop</i> Sabanci University |

Wednesday, 24 September

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| 08:00 – 09:00 | Registration |
| 09:00 – 10:00 | INVITED TALK: Prof. Sahin Albayrak, Technical University of Berlin / DAI-Labor Towards Autonomous Security Session chair: <i>Erkay Savas</i> |
| 10:00 – 10:30 | Coffee-break |





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| 10:30 – 12:30 | Session 4: Malware Session chair: <i>Cliff Zou</i> |
| | SMM Rootkits: A New Breed of OS Independent Malware <i>Sherri Sparks, Shawn Embleton, Cliff Zou</i> University of Central Florida |
| | On Capturing Malware Dynamics in Mobile Power-Law Networks <i>Abhijit Bose¹, Kang Shin²</i> ¹ IBM ² The University of Michigan Ann Arbor |
| | Overbot - A Botnet Protocol Based on Kademia <i>Guenther Starnberger, Engin Kirda, Christopher Kruegel</i> Technical University Vienna |
| | Containment of Network Worms by Per-Process Rate-Limiting <i>Yuanyuan Zeng, Xin Hu, Abhijit Bose, Haixiong Wang, Kang Shin</i> University of Michigan, Ann Arbor |
| 12:30 – 14:00 | Lunch |
| 14:00 – 15:15 | Session 5: Privacy, Anonymity, and Steganalysis Session chair: <i>Tuomas Aura</i> |
| | Detection of Word Shift Steganography in PDF Document <i>Lingjun li, Liusheng Huang, Xinxin Zhao, Zhengshan Yu, Zhili Chen</i> University of Science and Technology of China |
| | Location Privacy based on Trusted Computing and Secure Logging (15 minutes) <i>Urs Hengartner</i> University of Waterloo |
| | Evaluating the Utility of Anonymized Network Traces for Intrusion Detection (15 minutes) <i>Adam Slagell, Kiran Lakkaraju</i> National Center for Supercomputing Applications |
| | Attribute-Based On-Demand Multicast Group Setup with Receiver Anonymity (15 minutes) <i>Shucheng Yu¹, Kui Ren², Wenjing Lou¹</i> ¹ Worcester Polytechnic Institute ² Illinois Institute of Technology |
| 15:15 – 15:45 | Coffee-break |





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| 15:45 – 17:30 | Session 6: Network Intrusion Detection II Session chair: <i>Sahin Albayrak</i> |
| | On The Performance of a Hybrid Intrusion Detection Architecture for Voice over IP Systems <i>Bazara Barry</i> University of Cape Town |
| | LIDeA: A Distributed Lightweight Intrusion Detection Architecture for Sensor Networks <i>Ioannis Krontiris, Thanassis Giannetsos, Tassos Dimitriou</i> Athens Information Technology |
| | Hiding "Real" Machine from Attackers and Malware with a Minimal Virtual Machine Monitor <i>Yan Wen¹, Jinjing Zhao², Huaimin Wang¹</i> ¹ National University of Defense Technology ² Beijing Institute of System Engineering |
| | Visual-Similarity-Based Phishing Detection (15 minutes) <i>Eric Medvet¹, Engin Kirda², Christopher Kruegel²</i> ¹ University of Trieste, ² Technical University Vienna |
| 19:00 | Gala Dinner |

Thursday, 25 September

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| 08:00 – 09:00 | Registration |
| 09:00 – 10:15 | Session 7: Emerging Attacks Session chair: <i>Thorsten Strufe</i> |
| | Attacking the Kad Network <i>Peng Wang, James Tyra, Tyson Malchow, Yongdae Kim, Nicholas Hopper, Denis Foo Kune, Eric Chan-Tin</i> University of Minnesota |
| | Voice Pharming Attack and the Trust of VoIP <i>Xinyuan Wang, Ruishan Zhang, Xiaohui Yang, Xuxian Jiang, Duminda Wijesekera</i> George Mason University |
| | A Cross-layer Dropping Attack in Video Streaming over Ad Hoc Networks (15 minutes) <i>Min Shao¹, Sencun Zhu¹, Guohong Cao¹, Tom La Porta¹, Prasant Mohapatra²</i> ¹ The Pennsylvania State University ² University of California, Davis |





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| 10:15 – 10:45 | Coffee-break |
| 10:45 – 12:15 | Session 8: Wireless Network Security II Session chair: <i>Yongdae Kim</i> |
| | Unassailable Sensor Networks <i>Alessandro Mei¹, Alessandro Panconesi¹, Jaikumar Radhakrishnan²,</i> ¹ Sapienza University of Rome ² Tata Institute of Fundamental Research |
| | Jamming Mitigation in Multi-Radio Wireless Networks: Reactive or Proactive? <i>Sherif Khattab, Daniel Mosse', Rami Melhem</i> University of Pittsburgh |
| | MISPAR: Mitigating Stealthy Packet Dropping in Locally-Monitored Multi-hop Wireless Ad Hoc Networks <i>Issa Khalil¹, Saurabh Bagchi²,</i> ¹ United Arab Emirates University ² Purdue University |
| 12:15 – 13:45 | Lunch |
| 13:45 – 15:15 | Session 9: Wireless Network Security III Session chair: <i>Tassos Dimitriou</i> |
| | PEAC: a Probabilistic, Efficient, and resilient Authentication protocol for broadcast Communications <i>Roberto Di Pietro¹, Andrea Cirulli²</i> ¹ Università di Roma Tre ² Università di Roma "La Sapienza" |
| | Subjective Logic Based Trust Model for Mobile Ad-hoc Networks <i>Venkat Balakrishnan, Vijay Varadharajan, Uday Tupakula</i> Macquarie University |
| | ARCMA: Attack-Resilient Collaborative Message Authentication in Wireless Sensor Networks (15 minutes) <i>Min-gyu Cho, Kang Shin</i> University of Michigan |
| | A Heterogeneity-Aware Framework for Group Key Management in Wireless Mesh Networks (15 minutes) <i>Xia Wang, Johnny Wong, Wensheng Zhang</i> Iowa State University |
| 15:15 – 15:45 | Coffee-break |





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| 15:45 – 16:45 | Session 10: Miscellaneous Session chair: <i>Tansu Alpcan</i> |
| | <p>A Lightweight Signature-based Scheme for User Authentication over Networks (15 minutes) <i>Tansu Alpcan</i>¹, <i>Sinan Kesici</i>², <i>Daniel Bicher</i>³, <i>M. Kivanc Mihcak</i>², <i>Christian Bauckhage</i>¹, <i>Seyit Ahmet Camtepe</i>⁴ ¹ Deutsche Telekom Laboratories ² Bogazici University ³ Technische Universitat Berlin ⁴ DAI-Labor</p> <p>RFID-DOT: RFID Delegation and Ownership Transfer made simple (15 minutes) <i>Tassos Dimitriou</i> Athens Information Technology</p> <p>Parameterized Access Control: From Design To Prototype (15 minutes) <i>Ashish Gehani</i>¹, <i>Surendar Chandra</i>² ¹ SRI International ² University of Notre Dame</p> <p>Towards More Secure Systems: How to Combine Expert Evaluations (15 minutes) <i>Sabrina Sicari</i>, <i>Marco Benini</i> Universita' degli Studi dell'Insubria</p> |
| 16:45 – 16:50 | Closing Remarks |

