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Security in Ad-hoc and Sensor Networks

First European Workshop, ESAS 2004
Heidelberg, Germany, August 6, 2004
Revised Selected Papers



Springer

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Claude Castelluccia, Hannes Hartenstein, Christof Paar,
Dirk Westhoff (Eds.)

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Preface

Ad hoc and sensor networks are making their way from research to real-world deployments. Body and personal-area networks, intelligent homes, environmental monitoring or intervehicle communications: there is almost nothing left that is not going to be “smart” and “networked.” While a great amount of research has been devoted to the pure networking aspects, ad hoc and sensor networks will not be successfully deployed if security, dependability and privacy issues are not addressed adequately. These issues are very important because ad hoc and sensor networks are usually used for very critical applications. Furthermore, they are very vulnerable because they are, most of the time, deployed in open and unprotected environments.

At ESAS 2004, researchers with interests in both networking and security came together to present and discuss the latest ideas and concepts in the design of secure, dependable and privacy-preserving ad hoc and sensor networks. In the keynote speeches, Jean-Pierre Hubaux (EPFL, Switzerland) discussed the challenges of ad hoc network security, and Antonis Galetsas (European Commission, DG Information Society) presented the current and future activities of the European Commission on these topics.

Out of 55 high-quality submissions, the program committee selected 17 papers for publication. The program covered the full spectrum of security-related issues, including key distribution and management, authentication, energy-aware cryptographic primitives, anonymity/pseudonymity, secure diffusion, secure P2P overlays and RFIDs.

We would like to thank all authors, referees, supporters and workshop participants for making this workshop a successful event. Special thanks to the program committee and further reviewers for their great work and for reviewing the papers in less than 4 weeks. We hope that you will enjoy the ESAS proceedings and your research work will be stimulated.

September 2004

Claude Castelluccia
Hannes Hartenstein
Christof Paar
Dirk Westhoff

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Table of Contents

New Research Challenges for the Security of Ad Hoc and Sensor Networks	
<i>Jean-Pierre Hubaux</i>	1
Public Key Cryptography in Sensor Networks—Revisited	
<i>Gunnar Gaubatz, Jens-Peter Kaps, Berk Sunar</i>	2
Exploring Message Authentication in Sensor Networks	
<i>Harald Vogt</i>	19
Secure Initialization in Single-Hop Radio Networks	
<i>Miroslaw Kutylowski, Wojciech Rutkowski</i>	31
Some Methods for Privacy in RFID Communication	
<i>Kenneth P. Fishkin, Sumit Roy, Bing Jiang</i>	42
Ring Signature Schemes for General Ad-Hoc Access Structures	
<i>Javier Herranz, Germán Sáez</i>	54
Linking Ad Hoc Charging Schemes to AAAC Architectures	
<i>Joao Girao, Bernd Lamparter, Dirk Weshoff, Rui L. Aguiar,</i> <i>Joao P. Barraca</i>	66
Blind Spontaneous Anonymous Group Signatures for Ad Hoc Groups	
<i>Tony K. Chan, Karyin Fung, Joseph K. Liu, Victor K. Wei</i>	82
Security for Interactions in Pervasive Networks: Applicability of Recommendation Systems	
<i>Seamus Moloney, Philip Ginzboorg</i>	95
Pseudonym Generation Scheme for Ad-Hoc Group Communication Based on IDH	
<i>Mark Manulis, Jörg Schwenk</i>	107
Secure Overlay for Service Centric Wireless Sensor Networks	
<i>Hans-Joachim Hof, Erik-Oliver Bläß, Martina Zitterbart</i>	125
IKE in Ad Hoc IP Networking	
<i>Kaisa Nyberg</i>	139

Advanced Detection of Selfish or Malicious Nodes in Ad Hoc Networks <i>Frank Kargl, Andreas Klenk, Stefan Schlott, Michael Weber</i>	152
A Security Architecture for Mobile Wireless Sensor Networks <i>Stefan Schmidt, Holger Krahn, Stefan Fischer, Dietmar Wätjen</i>	166
Securely Propagating Authentication in an Ensemble of Personal Devices Using Single Sign-on <i>Prakash Reddy, Eamonn O'Brien-Strain, Jim Rowson</i>	178
Key Management in Wireless Sensor Networks <i>Yann-Hang Lee, Vikram Phadke, Amit Deshmukh, Jin Wook Lee</i>	190
SDD:Secure Distributed Diffusion Protocol for Sensor Networks <i>Xiaoyun Wang, Lizhen Yang, Kefei Chen</i>	205
Secure AES Hardware Module for Resource Constrained Devices <i>Elena Trichina, Tymur Korkishko</i>	215
Author Index	231