

The First International ICST Conference on Security and Privacy in Mobile Information and Communication Systems

Important Dates

Paper Submission

Paper Submission Deadline:
~~February 2, 2009~~
February 16, 2009
(Extended)

Notification of Acceptance:
March 16, 2009

Camera-ready Manuscripts due:
April 1, 2009

Conference

June 3-5, 2009
Star Hotel Majestic Turin

SCOPE

The convergence of information and communication technology is most palpable in the form of intelligent mobile devices, accompanied by the advent of converged, and next-generation, communication networks. As mobile communication and information processing becomes a commodity, economy and society require protection of this precious resource. MobiSec brings together leading-edge researchers from academia and industry in the field of mobile systems security and privacy, as well as practitioners, standards developers and policymakers.

PAPERS

Technical papers describing original, previously unpublished research, not currently under review by another conference or journal, are solicited. MobiSec solicits original, high-quality research contributions in the form of full papers. The focus is on the security of information and communication systems including mobile networks, devices and applications. Papers from other areas, e.g., formal methods, cryptography, database security, operating system security, will be considered if a clear connection to one of the topics below is demonstrated.

Topics of interest include, but are not limited to the following focus areas, as applied to mobile ICT:

- Security architectures for next-generation, new-generation, and converged communication networks
- Trusted mobile devices, hardware security
- Network resilience
- Threat analyses for mobile systems
- Multi-hop authentication and trust
- Non-repudiation of communication
- Context-aware and data-centric security
- Protection and safety of distributed mobile data
- Mobile application security
- Security for voice and multimedia communication
- Machine-to-machine communication security
- Trust in autonomic and opportunistic communication
- Location based applications security and privacy
- Security for the networked home environment
- Security and privacy for mobile communities
- Mobile emergency communication, public safety
- Lawful interception and mandatory data retention
- Security of mobile agents and code
- Identity management
- Embedded security

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Paper Submission

Paper submission will be handled electronically. Authors should prepare an Adobe Acrobat PDF version of their full paper. All submitted papers will be subject to a rigorous peer-review. Papers must be formatted using **Springer LNICST Authors' Kit** (<http://www.springer.com/computer?SGWID=0-146-6-564009-0>) and submitted only through the **ASSYST conference management system** (<http://assyst-online.org/>). See the instructions at <http://assyst-online.org/submission/assyst Ug.pdf>

Papers must not exceed the limit of **12 pages** including text, figures and references. The font size must be at least 10 points.

Publications

Accepted papers will be published by **Springer** in the **MobiSec Conference Proceedings**, in the Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Tele-communications Engineering (LNICST) series. The proceedings will be available both as paper-based copies and via Springerlink, Springer's digital library. In addition, the content of the proceedings will be reviewed by various indexing services such as the DBLP database, ZBMath/CompuServe, MATHSCINET, EI-INSPEC, IET, RPS, Computer Science Bibliography Administrator, Elsevier Bibliographic Databases Source Management, ULRICH, CSA, ProQuest.

Special Issues

Selected high-quality papers will be invited to a **Special Issue in the Journal 'Security and Communication Networks'** (SCN, Wiley) and **International Journal of Mobile Computing and Multimedia Communications (IJMCMC, IGI Global)**

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TUTORIAL

Introduction to the Host Identity Protocol (HIP)

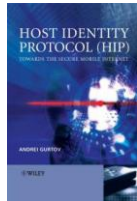
A half day tutorial.

Andrei Gurtov, Principal Scientist, PhD, Adjunct Professor,
Helsinki Institute for Information Technology (HIIT) Finland.
<http://www.hiit.fi/~gurtov>

The Host Identity Protocol (HIP) is being standardized by the IETF as a new solution for host mobility and multihoming in the Internet. RFCs 5201-5207 on HIP are recently published by the IETF. HIP uses self-certifying public-private key pairs in combination with IPsec to authenticate hosts and protect user data. HIP is an important component of several P2P systems, including P2PSIP; P2P systems such as DHT and i3 are core part for mapping host identifiers to locators.

The tutorial covers the current problems in Internet architecture, the identifier/location split, the base HIP protocol including the base exchange, new IPsec mode, DNS and rendezvous extensions, infrastructure for resolving host names to locators, micromobility, privacy, and support of legacy applications.

We will as well go through current implementations, HIP testbeds, including a pilot deployment of HIP in Boeing airplane factory. The tutorial is based on a book A. Gurtov, Host Identity Protocol (HIP): Towards the Secure Mobile Internet, ISBN 978-0-470-99790-1, Wiley and Sons, June 2008. (Hardcover, 332 p).



A following quotation from the book foreword by Jari Arkko, Internet Area Director, IETF motivates the interest behind the topic: "Bob Moskowitz pioneered the idea of the Host Identity Protocol (HIP) in late 1990s. While the general idea of separating identifiers and locators had been around for a long time, nothing quite as detailed and comprehensive had actually been designed before. The initial designs were little more than sketches but the architecture was appealing. In particular, many people were drawn to the idea of HIP due to the way that security was naturally integrated as a part of the design, or the fact that the same powerful concepts appeared to be capable of solving many different problems, be it about mobility, multihoming, address translation, or stable anchor points..."

Andrei Gurtov received his M.Sc and Ph.D. degrees in Computer Science from the University of Helsinki, Finland. At the present, he is Principal Scientist leading the Networking Research group at the Helsinki Institute for Information Technology focusing on the Host Identity Protocol and next generation Internet architecture. He is co-chairing the IRTF research group on HIP and teaches as an adjunct professor at Telecommunications and Multimedia Laboratory of the Helsinki University of Technology. Previously, his research focused on the performance of transport protocols in heterogeneous wireless networks. In 2000-2004, he served as a senior researcher at Sonera Finland contributing to performance optimization of GPRS/UMTS networks, intersystem mobility, and IETF standardization. In 2003, he spent six months as a visiting researcher in the International Computer Science Institute at Berkeley working with Dr. Sally Floyd on simulation models of transport protocols in wireless networks. In 2004, he was a consultant at the Ericsson NomadicLab. Dr. Gurtov is a co-author of over 50 publications including research papers, patents, and IETF RFCs.

CONFERENCE VENUE

Star Hotels Majestic Turin

The hotel is located in downtown Turin, just a short distance from the historical center of town, from the famous shopping streets and opposite the Railway Station of Porta Nuova. Turin was built in a baroque, Liberty and quite seductive style, perfectly interpreted by the elegant 4 stars hotel, which was just recently renovated. Ideal for meetings and events, it offers 10 rooms with a maximum capacity of 484 delegates.



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