International Journal on

Advances in Security









Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2011) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed by Curran Associates, Inc. (2012)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA

Phone: 845-758-0400 Fax: 845-758-2634

Email: curran@proceedings.com Web: www.proceedings.com

International Journal on Advances in Security

Volume 4, Numbers 3 & 4, 2011

CONTENTS

| iversal Bluetooth Access Control and Security System | 142 - 151 |
|---|-----------|
| Francisco J. Bellido-Outeirino, University of Cordoba. Dept. of Computers Architecture and | |
| Electronics., Spain | |
| José Luis de la Cruz Fernandez, University of Cordoba. Dept. of Applied Physics., Spain | |
| Antonio Moreno-Munoz, University of Cordoba. Dept. of Computers Architecture and Electronics., | |
| Spain | |
| Pedro M. Canales Aranda, University of Cordoba. Dept. of Computers Architecture and Electronics., | |
| Spain | |
| Benito Perez Jarauta, Stop Casa Segura S.L., Spain | |
| Secure Communication Using Electronic Identity Cards for Voice over IP Communication, | 152 - 162 |
| Home Energy Management, and eMobility | |
| Rainer Falk, Siemens AG, Germany | |
| Steffen Fries, Siemens AG, Germany | |
| Hans-Joachim Hof, Hochschule München, Germany | |
| TREMA: A Tree-based Reputation Management Solution for P2P Systems | 163 - 172 |
| Quang Hieu Vu, ETISALAT BT Innovation Center (EBTIC), United Arab Emirates | |
| A New Pattern Template to Support the Design of Security Architectures: A Case Study | 173 - 184 |
| Santiago Moral-García, University Rey Juan Carlos, Spain | |
| Roberto Ortiz, BBVA, Spain | |
| Santiago Moral-Rubio, BBVA, Spain | |
| Javier Garzás, University Rey Juan Carlos, Spain | |
| Eduardo Fernández-Medina, University of Castilla-La Mancha, Spain | |
| iPrivacy: A Distributed Approach to Privacy on the Cloud | 185 - 197 |
| Ernesto Damiani, Department of Information Technology - Università degli Studi di Milano, Italy | |
| Francesco Pagano, Department of Information Technology - Università degli Studi di Milano, Italy | |
| Davide Pagano, School of Engineering - Politecnico di Milano, Italy | |
| A Trust-based Approach for Secure Packet Transfer in Wireless Sensor Networks | 198 - 207 |
| Yenumula Reddy, Grambling State University, USA | |
| Rastko Selmic, Louisiana Tech University, USA | |
| Advancement Towards Secure Authentication in the Session Initiation Protocol | 208 - 222 |
| Lars Strand, Norwegian Computing Center / University of Oslo, Norway | |
| Wolfgang Leister Norwegian Computing Center Norway | |

| Eruption of Policy in the Charging Arena | 223 - 233 |
|---|-----------|
| Marc Cheboldaeff, Alcatel-Lucent, Germany | |
| The Secure Access Node Project: A Hardware-Based Large-Scale Security Solution for | 234 - 244 |
| Access Networks | |
| Jens Rohrbeck, University of Rostock, Institute of Applied Microelectronics and Computer Engineering, Germany | |
| Vlado Altmann, University of Rostock, Institute of Applied Microelectronics and Computer | |
| Engineering, Germany | |
| Stefan Pfeiffer, University of Rostock, Institute of Applied Microelectronics and Computer | |
| Engineering, Germany | |
| Peter Danielis, University of Rostock, Institute of Applied Microelectronics and Computer | |
| Engineering, Germany | |
| Jan Skodzik, University of Rostock, Institute of Applied Microelectronics and Computer Engineering, | |
| Germany | |
| Dirk Timmermann, University of Rostock, Institute of Applied Microelectronics and Computer | |
| Engineering, Germany | |
| Matthias Ninnemann, Nokia Siemens Networks GmbH & Co. KG, Broadband Access Division, | |
| Greifswald, Germany | |
| Maik Rönnau, Nokia Siemens Networks GmbH & Co. KG, Broadband Access Division, Greifswald, | |
| Germany | |

CincoSecurity: Automating the Security of Java EE Applications with Fine-Grained Roles 245 - 254 and Security Profiles

María Consuelo Franky, Pontificia Universidad Javeriana, Colombia Victor Manuel Toro C., Universidad de los Andes, Colombia