Communications in Computer and Information Science 318

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Future Security

7th Security Research Conference
Future Security 2012
Bonn, Germany, September 4-6, 2012
Proceedings

Springer

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ISSN 1865-0929 e-ISSN 1865-0937
ISBN 978-3-642-33160-2 e-ISBN 978-3-642-33161-9
DOI 10.1007/978-3-642-33161-9
Springer Heidelberg Dordrecht London New York

Library of Congress Control Number: 2012945558

CR Subject Classification (1998): K.6.5, H.4, K.4.4, K.5.1, J.1, J.2, I.4.8, C.2.4, J.4

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Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India

Printed on acid-free paper

Springer is part of Springer Science+Business Media (www.springer.com)

Foreword of the Conference Chair

Welcome to the proceedings of the 7th Future Security Research Conference 2012 held in Bonn, Germany.

The Fraunhofer Group for Defense and Security has established a successful conference series in the emerging field of security research. After conferences in the cities of Karlsruhe and Berlin, the 2012 edition went to Bonn, the former capital of Germany. The conference was held in the World Conference Center Bonn in the former premises of the Bundestag, the German parliament – a perfect venue for bringing together decision makers, public authorities, industry, and scientists to discuss new ways of protecting both our freedom and our open society. Numerous presentations were held in the former plenary hall of the Bundestag. The foyer and additional rooms were used for special interest group meetings, poster presentations, and exhibitions.

The conference program offered several keynote speeches, panels, and many scientific presentations. The scientific papers accompanying the presentations are included in this book. All the papers were reviewed according to tough scientific standards. They provide a broad overview over the state of the art in security research.

My sincere thanks go to the Program Committee, in particular to the Program Co-chairs Nils Aschenbruck, University of Osnabrück, and Michael Meier, University of Bonn, for orchestrating the review process and arranging the scientific program; to Jens Tölle, Fraunhofer FKIE, for handling the publication process and spending hours on making these proceedings look the way you, the reader, expect publications to look in this series by Springer; and to Hans Peter Stuch, Fraunhofer FKIE, for taking care of the local arrangements.

Most of all, I thank the authors for providing us with their scientific results, ideas, and reflections on security issues. We know that there is a wide range of conferences held all over the world and we very much appreciate the authors choosing Future Security as the conference for presenting their work.

Peter Martini

Foreword of the Program Chairs

Welcome to the proceedings of the 7th Future Security Research Conference. It was our privilege to coordinate the review process and to put together a high-quality technical program.

Research in the area of security in the future is very important. The challenges concerning security in the future are miscellaneous, broad, and often fuzzy. We were proud to present a program that covered many important areas of future security research.

Future Security 2012 received 137 submissions (papers, short papers, and posters) from authors from 19 countries on four continents. Out of 61 submitted full papers, 24 full papers presenting novel perspectives and research results within the scope of the conference were selected for presentation at the conference and publication in these proceedings (39%). In addition, short papers and posters presenting preliminary or interim results were selected to complement the program.

The Future Security Program Committee members as well as the external reviewers did a wonderful job to ensure that Future Security had a strong and solid technical program. Based on the paper reviews, the papers were selected for the conference. In our opinion, these papers were the most interesting and thought-provoking. We are very confident that these excellent papers will trigger interesting discussions. Accepted papers were revised by the authors before publication. The revisions have not been checked for correctness, and the authors bear full responsibility for the contents of their papers.

The conference program comprised new theoretical and practical approaches and results from research as well as experience reports on the topics of urban security, supply chain and critical infrastructure security, security situational awareness, crisis management, sensor technologies, social, psychological and political aspects, cloud and law, cybercrime, industrial espionage, border security, detection of hazardous materials, food chain security, user, sensor and system aspects of public security, aviation security, and ergonomic aspects.

We warmly thank all those who contributed to the program of the conference, especially the authors, the invited speakers and panelists, as well as the members of Future Security Program Committee and the additional reviewers. We hope that you will enjoy reading the papers of Future Security 2012 as much as we did, and that the conference will promote further research interests and activities in the important area future security as previous editions already have done.

Nils Aschenbruck
Michael Meier

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