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IFIP – The International Federation for Information Processing

IFIP was founded in 1960 under the auspices of UNESCO, following the First World Computer Congress held in Paris the previous year. An umbrella organization for societies working in information processing, IFIP's aim is two-fold: to support information processing within ist member countries and to encourage technology transfer to developing nations. As ist mission statement clearly states,

> *IFIP's mission is to be the leading, truly international, apolitical organization which encourages and assists in the development, exploitation and application of information technology for the benefit of all people.*

IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- Open conferences;
- Working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is less rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

Any national society whose primary activity is in information may apply to become a full member of IFIP, although full membership is restricted to one society per country. Full members are entitled to vote at the annual General Assembly, National societies preferring a less committed involvement may apply for associate or corresponding membership. Associate members enjoy the same benefits as full members, but without voting rights. Corresponding members are not represented in IFIP bodies. Affiliated membership is open to non-national societies, and individual and honorary membership schemes are also offered.

Dimitris Gritzalis Steven Furnell
Marianthi Theoharidou (Eds.)

Information Security and Privacy Research

27th IFIP TC 11 Information Security and Privacy Conference, SEC 2012
Heraklion, Crete, Greece, June 4-6, 2012
Proceedings

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Volume Editors

Dimitris Gritzalis
Marianthi Theoharidou
Athens University of Economics and Business, Department of Informatics
Information Security and Critical Infrastructure Protection Research Group
76 Patission Ave., 10434 Athens, Greece
E-mail: {dgrit,mtheohar}@aueb.gr

Steven Furnell
University of Plymouth
School of Computing Communications and Electronics
A310, Portland Square, Drake Circus, Plymouth, PL4 8AA, UK
E-mail: s.furnell@plymouth.ac.uk

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Preface

It was an honor and a privilege to chair the 27th IFIP International Information Security Conference (SEC 2012), a 29-year old event that has already become a tradition for information security professionals around the world. SEC 2012 was organized by Technical Committee 11 (TC-11) of IFIP and this year took place on the Greek island of Crete, during June 4–6, 2012. As Program Committee Chairs, we were extremely pleased to serve a conference in a location with such natural beauty, and where the hospitality and friendliness of the people have been going together, hand-in-hand, with its very long history.

This volume contains the papers selected for presentation at SEC 2012, which proved to be a really competitive forum. After a first check by the PC chairs on meeting the submission criteria, scope and quality, 115 of the 167 initially submitted papers were then sent out for review by the conference Program Committee. All of these 115 papers were evaluated on the basis of their novelty and technical quality, and reviewed by at least two members of the program committee. Of these 115 papers, finally 42 were accepted as full papers. A further 11 submissions were accepted as short papers.

It is thanks to the commitment of several people that international conferences are able to happen. This holds true also for SEC 2012. The full list of individuals that volunteered their time and energy to help is really long, and we would like to express our sincere appreciation to the members of the Program Committee, to the external reviewers, and to the authors, who trusted their work in our hands. Many thanks go, also, to all conference attendees.

In particular, we would like to thank our distinguished keynote speaker, Udo Helmbrecht (ENISA) for accepting our invitation and honoring the conference with his presence and inspired talk. We also thank the local organizers and hosts, first among them being the Organizing Committee Chairs Marianthi Theoharidou and Nickolas Kyrloglou, as well as the Publicity Chair Sara Foresti, who took care of every detail to ensure that SEC 2012 would become a successful and memorable event. Our further appreciation also goes to Marianthi for strongly supporting us in the preparation and editing of this conference proceedings volume.

Finally, let us express a personal note. We would like to thank all TC-11 members for giving us the opportunity to serve SEC 2012 as Program Committee Chairs. It was the first time this opportunity is given to Steven Furnell. It was the fourth time, following events in Samos (SEC 1996), Athens (SEC 2003) and Pafos (SEC 2009), that this opportunity was given to Dimitris Gritzalis, who has thus further extended his record as a SEC conference chairing "dinosaur".

Dimitris Gritzalis
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