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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 its member countries and to encourage technology transfer to developing nations. As its 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 also 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 about information processing 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.

Christos Douligeris Nineta Polemi
Athanasios Karantjias Winfried Lamersdorf (Eds.)

Collaborative, Trusted and Privacy-Aware e/m-Services

12th IFIP WG 6.11 Conference
on e-Business, e-Services, and e-Society, I3E 2013
Athens, Greece, April 25-26, 2013
Proceedings



Springer

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Preface

This volume contains the revised papers of the 12th IFIP Conference on e-Business, e-Services, e-Society (I3E) which was held in Athens, Greece, April 25-26, 2013. The papers reflect the depth and breadth that the I3E conference series, now well in its second decade, attracts. Notwithstanding the inevitable problems and shortcomings of the ever-present e-society, it is undeniable that all of us, in one way or another, are directly affected, use, and enjoy it.

The international scientific community has been at the forefront of the developments in this area with several new conferences, journals, and books – in printed or electronic media – appearing every year. It is obvious from the papers in this volume that the I3E conference series has kept their leading position as one of the main venues for new ideas, practice presentations, and new research forum in the e-services academic and development society, having the full support and being the flagship conference of the IFIP WG6.11 “Communication Aspects of the E-World.”

This year the focus of the conference was on “Collaborative, Trusted and Privacy-Aware e/m-Services” to indicate the fact that we live in world which is interconnected but requires a minimum level of security and privacy in order to fully exploit the benefits of e-society. This focus is apparent in the first two parts of the volume where trust and privacy issues are addressed in several e-services scenarios and with a variety of tools and technologies. In particular, the new paradigm of cloud computing raises a new slate of questions regarding security, privacy, and access control and poses a set of legal requirements that require immediate response. Social networking as a major form not only of communication and entertainment but of doing business on-line raises its own questions demanding new protocols and regulatory interventions. Unless we deal with adoption issues and go over a careful analysis of available and proposed e/m services, the scope of our work would be an abstract, theoretical model with no relevance to the real world. New ecological demands need to be addressed in using e-services and by using e-services. Business processes and knowledge management in the volatile e-society take a new meaning and require new approaches and innovative ideas. We need to create knowledge from data and raw information in an efficient, timely, and privacy-aware manner. Appropriate management policies are thus necessary to define how e-services can be adopted, expanded and continuously evaluated.

We would not be able to prepare this coherent, thorough, and up-to-date volume without the help of several individuals and organizations. We would like to extend our appreciation to our basic supporting organizations, IFIP and

Springer, for making these proceedings possible. The conference would not have been possible without the great financial and technical support of the University of Piraeus and the University of Piraeus Research Center. The Software and Integrated IT Solutions Group of Singular Logic SA provided much-needed financial and marketing during all the phases of this conference. The Greek Chapter of ISACA was instrumental in making the conference widely known in its community.

In addition, I3E 2013 can be considered the brainchild of the European project ImmigrationPolicy2.0, which has as its main objective to offer to legal immigrants, policy makers, public administrators, and experts in the domain of migration the capability to contribute their valuable knowledge and experience in order to effectively enhance current efforts of migration policy harmonization at a European level as well as to help identify existing gaps in national policies compared to E.U. directives. The project has been funded by the EU ICT PSP programme.

The conference included three keynote speeches by experts in the topics addressed by the conference. Andreas Mitrakas talked on “Information Technology Regulation: Towards a Future Proof Model?”. Dimitris Karagiannis analyzed the topic “Open Models as a New Instrument in E-Business,” while Günter Müller explored the question “Resilience: A New Paradigm for Security?”. A roundtable on the uptake and acceptance of e-services run by George Doukidis was part of the conference program as well. Two workshops were also organized. The first, sponsored by the ImmigrationPolicy2.0 project and chaired by Thanos Karantjias, Stelios Pantelopoulos, and Dimitris Papanikas, explored e-migration issues and provided a live demonstration of the IMP2.0 platform. The second one was organised by Robert Woitsch and Wilfrid Utz and addressed the issue of Value Creation through Concept Models.

We would like to extend our warmest thanks to the Program Committee members who reviewed the papers, provided thorough reviews and incisive comments so that the camera-ready papers were of the highest possible quality. The authors of the papers, who come from several different nations and continents and have diverse academic and industrial backgrounds, need to be thanked for their trust in the conference and for their patience in following the guidelines provided by the reviewers and revise their papers accordingly. It should be mentioned that all the papers were evaluated by at least three independent reviewers according to several criteria and that the reviewers were asked to look at the papers critically regarding their presentation, content, and impact.

The Finance Chair and the local Organizing Committee are to be thanked for making all the necessary arrangements for a successful meeting in Athens.

We are certain that this volume will open new questions regarding e-services, their expansion, and the security and privacy concerns associated with their uptake as well as regarding the impact that these technologies may have on our everyday personal and business lives.

April 2013

Christos Douligeris
Nineta Polemi
Athanasios Karantjias
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Organization

The 12th IFIP Conference on e-Business, e-Services, e-Society (I3E 2013) was organized by the University of Piraeus, Department of Informatics, and took place in Athens, Greece (April 25–26, 2013).

The conference was sponsored by IFIP WG 6.11 in cooperation with the University of Piraeus Research Center, SingularLogic S.A., ISACA and ImmigrationPolicy2.0 FP7 Programme.

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