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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 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.

Theo Dimitrakos Rajat Moona
Dhiren Patel D. Harrison McKnight (Eds.)

Trust Management VI

6th IFIP WG 11.11
International Conference, IFIPTM 2012
Surat, India, May 21-25, 2012
Proceedings

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Preface

This volume contains the proceedings of IFIPTM 2012, the 6th IFIP WG 11.11 International Conference on Trust Management, held in Surat, India, during May 21–25, 2012.

IFIPTM 2012 provided a truly global platform for the reporting of research, development, policy, and practice in the interdependent areas of privacy, security, and trust.

Building on the traditions inherited from the iTrust and previous IFIPTM conferences, IFIPTM 2012 was a multi-disciplinary conference focusing on areas such as: trust models, social, economic and behavioral aspects of trust, trust in networks, mobile systems and cloud computation, privacy, reputation systems, and identity management. Previous IFIPTM conferences have taken place in Denmark (2011), Japan (2010), USA (2009), Norway (2008), and Canada (2007).

IFIPTM 2012 was an open IFIP conference. The program of the conference featured both theoretical research papers and reports of real-world case studies from academia, business and government. IFIPTM 2012 received 51 submissions from 23 different countries, including: Australia, Canada, Denmark, Egypt, Finland, France, Germany, India, Ireland, Israel, Italy, Japan, Malaysia, The Netherlands, Norway, Pakistan, Poland, Singapore, Slovenia, Spain, Switzerland, the United Arab Emirates, the UK, and the USA. The Program Committee selected 12 full papers and 8 short papers for presentation and inclusion in the proceedings, which resulted in a highly competitive call with a 25%–30% acceptance rate for full technical papers.

We allocated submissions as full or short papers based on the opinions of the Program Committee. The full papers were unanimously deemed to be worthy of inclusion, while short papers were accepted if committee members believed them likely to introduce new concepts, report work in progress of likely high impact, or excite debate and discussion.

In addition, the program included presentations by academic and industry experts in the fields of trust management, privacy, and security:

- Audun Jøsang gave a keynote on “Robustness of Trust and Reputation Systems, Does it Matter?” as the trust management expert selected for the William Winsborough Commemorative Award and Address in 2012. Audun Jøsang is professor at the Department of Informatics at the University of Oslo. Prof. Jøsang has made a significant contribution to research and innovation for online trust management and for computational trust with the development of subjective logic.

- Rajat Moona, gave a keynote on “transCryptFS: A Trusted and Secure File System.” Rajat Moona is a Poonam and Prabhu Goel Chair Professor at the Department of Computer Science and Engineering (CSE), IIT Kanpur, and currently in-charge of C-DAC India as its Director General. He has played a key role in defining standards for the Operating Systems for Smart Cards for the Government of India, which are in use in applications such as driving licenses, vehicle registration systems, Indian national ID, electronic passports, and several other ID-related applications. He has also been instrumental in defining the strategy for smart card certification mechanisms for the Government of India.
- Sundeep Oberoi presented a talk entitled “Operational Challenges in deploying Trust Management Systems—A Practical Perspective.” Sundeep Oberoi is the Global Head for Niche Technology Delivery Group in TCS (Tata Consultancy Services). He has authored the book *E-Security and You* explaining the IT Act 2000 (India) and several other books as well as conference and journal publications. He holds a PhD in Computer Science from IIT Bombay.
- Theo Dimitrakos presented an overview of the trust management discipline and the evolution of the trust management community over the last 15 years. Theo Dimitrakos is Chief Security Researcher in British Telecom and a co-Founder of the iTrust Community in Europe in 2002, as well as a co-Founder of the IFIP Trust Management working group in 2006. He served as the Chair of the IFIP Trust Management Working Group (WG11.11) from 2009 to 2012 and was its Vice-Chair from 2007 to 2009.

The William Winsborough Commemorative Address and Award was inaugurated to acknowledge the lasting effect that Professor Winsborough had on the field of computational trust and trust management. The award will be given annually from 2012 onward. The objective of the award is to publicly recognize an individual, not a group or organization, who has significantly contributed to the development of computational trust and/or trust management, especially achievements with an international perspective and a lasting effect.

In the IFIPTM 2012 conference, as well as in previous IFIPTM conferences, we had several accompanying workshops enabling the presentation of new ideas and allowing the early exposure of ongoing research, particularly from PhD students.

2012 was the first time that an international IFIP Trust Management conference took place in the Indian subcontinent and the second time that such a conference took place in Asia (the first being IFIPTM 2010 in Japan) . We believe the deep and wide profiles produced by all of the events will solidify IFIPTM as an international, multidisciplinary trust conference with a truly global outreach.

Running an international conference requires an immense effort from all parties involved. We would like to thank the Program Committee members and external referees for having provided timely and in-depth reviews of the submitted

papers. We would also like to thank all members of the Organizing Committee and primarily Anirban Basu and Steve Marsh for having provided great help with organizing many technical aspects of the conference, the website and the implementation of its publicity and communications strategy. We also thank the EasyChair conference system, Springer, and the NIT Surat Computer Department team with Bhavesh Borisanya for the proceedings preparation. We hope you enjoy the proceedings.

May 2012

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Rajat Moona
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