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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.

Simone Fischer-Hübner Penny Duquenoy
Marit Hansen Ronald Leenes Ge Zhang (Eds.)

Privacy and Identity Management for Life

6th IFIP WG 9.2, 9.6/11.7, 11.4, 11.6/PrimeLife
International Summer School
Helsingborg, Sweden, August 2-6, 2010
Revised Selected Papers

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Preface

Emerging internet applications, such as Web 2.0 applications and cloud computing, increasingly pose privacy dilemmas. When they communicate over the Internet, individuals leave trails of personal data which may be stored for many years to come. In recent years, social network sites, where users tend to disclose very intimate details about their personal, social, and professional lives, have caused serious privacy concerns. The collaborative character of the Internet enables anyone to compose services and distribute information. Due to the low costs and technical advances of storage technologies, masses of personal data can easily be stored. Once disclosed, these data may be retained forever and be removed with difficulty. It has become hard for individuals to manage and control the release and use of information that concerns them. They may particularly find it difficult to eliminate outdated or unwanted personal information. These developments raise substantial new challenges for personal privacy at the technical, social, ethical, regulatory, and legal levels: How can privacy be protected in emerging Internet applications such as collaborative scenarios and virtual communities? What frameworks and tools could be used to gain, regain, and maintain informational self-determination and lifelong privacy?

During August 2–6, 2010, IFIP (International Federation for Information Processing) working groups 9.2 (Social Accountability), 9.6/11.7 (IT Misuse and the Law), 11.4 (Network Security) and 11.6 (Identity Management) and the EU FP7 project PrimeLife held their 6th International Summer School in Helsingborg, Sweden, in cooperation with the EU FP7 project ETICA. The focus of the event was on privacy and identity management for emerging Internet applications throughout a person's lifetime.

The aim of the IFIP Summer Schools has been to encourage young academic and industry entrants to share their own ideas about privacy and identity management and to build up collegial relationships with others. As such, the Summer Schools have been introducing participants to the social implications of information technology through the process of informed discussion.

Following the holistic approach advocated by the involved IFIP working groups and by the PrimeLife and ETICA project, a diverse group of participants ranging from young doctoral students to leading researchers in the field from academia, industry and government engaged in discussions, dialogues, and debates in an informal and supportive setting. The interdisciplinary, and international, emphasis of the Summer School allowed for a broader understanding of the issues in the technical and social spheres.

All topical sessions started with introductory lectures by invited speakers in the mornings, followed by parallel workshops and seminars in the afternoons. The workshops consisted of short presentations based on the contributions submitted by participating PhD students, followed by active discussions.

Contributions combining technical, social, ethical, or legal perspectives were solicited. Keynote speeches provided the focus for the theme of the Summer School – Lifelong Privacy, eGovernment and User Control, Economic Aspects of Identity Management, Privacy in Social Networks, Policies, Privacy by Crypto, Emerging Technologies, Trends and Ethics – and the contributions from participants enhanced the ideas generated by the keynote speeches. The 2010 Summer School was once again a very successful event. More than 70 delegates from more than 15 countries actively participated. We succeeded in initiating intensive discussions between PhD students and established researchers from different disciplines. A best student paper award donated by IFIP WG 11.4 was given this year to Michael Dowd for his paper entitled “Contextualised Concerns — The Online Privacy Attitudes of Young Adults” and for his paper presentation.

These proceedings include both the keynote papers and submitted papers accepted by the Program Committee, which were presented at the Summer School. The review process consisted of two steps. In the first step, contributions for presentation at the Summer School were selected based on reviews of submitted short papers by the Summer School Program Committee. The second step took place after the Summer School, when the authors had an opportunity to submit their final full papers addressing discussions at the Summer School. The submissions were again reviewed, by three reviewers each, and those included in these proceedings were carefully selected by the International Summer School Program Committee and by additional reviewers according to common quality criteria.

We would like to thank the members of the Program Committee, the additional reviewers, the members of the Organizing Committee as well as all the speakers, especially the keynote speakers, who were: Jan Camenisch, Andreas Pfitzmann, Claire Vishik, Alessandro Aquisti, Herbert Leitold, Bibi van den Berg, Sonja Buchegger, Kai Rannenberg, Timothy Edgar, Gregory Neven, Alma Whitten and Bernd Stahl. Without their contributions and dedication, this Summer School would not have been possible. We also owe special thanks to the PrimeLife project as well as to IFIP for their support.

We dedicate these proceedings to our colleague and friend Prof. Andreas Pfitzmann, who to our deepest sorrow passed away on September 23, 2010. Andreas actively participated during the whole summer school and provided essential contributions as a keynote speaker, Session Chair, and panellist and in discussions with other participants. We will miss his bright spirit, his valuable experiences and knowledge, his visionary contributions, and his enjoyable company.

February 2011

Simone Fischer-Hübner
Penny Duquenoy
Marit Hansen
Ronald Leenes
Ge Zhang

Organization

The PrimeLife/IFIP Summer School 2010 was organized by the EU FP7 Project PrimeLife and the IFIP Working Groups 9.2, 9.6/11.7, 11.4 and 11.6 in cooperation with the ETICA EU FP7 project.

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