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# Privacy Technologies and Policy

5th Annual Privacy Forum, APF 2017  
Vienna, Austria, June 7–8, 2017  
Revised Selected Papers

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# Preface

It is our great pleasure to present the proceedings of the 5th Annual Privacy Forum (APF), which took place in Vienna, Austria, during June 7–8, 2017, organized by the European Union Agency for Network and Information Security, the European Commission Directorate General for Communications Networks, Content and Technology, and University of Vienna, as host. The oldest German-speaking university is looking forward to the new challenges of the knowledge and network society, in particular to the right to privacy for a free and democratic society. The General Data Protection Regulation (GDPR) was published in the Official Journal on May 4, 2016, to enter into force on May 25, 2018. On January 10, 2017, the Commission submitted the proposal for the ePrivacy Regulation. The basic framework for the implementation of privacy in electronic services is established but technological solutions and a viable implementation framework has to be further developed. Like last year, we focus on the implementation aspects of a sustainable future data protection framework. APF continues striving to close the gap between research, policy, and industry in the field of privacy and data protection. This includes presentations on privacy impact assessment, data lifecycle, and privacy challenges of new technologies.

We received 41 submissions in response to our call for papers. Each paper was peer-reviewed by at least four members of the international Program Committee (PC). On the basis of significance, novelty, and scientific quality, we selected 12 full research papers. Thus, this book presents 12 papers organized in three different chapters corresponding to the conference sessions.

The first chapter, “Data Protection Regulation,” discusses topics concerning big genetic data, a privacy-preserving European identity ecosystem, the right to be forgotten and the re-use of privacy risk analysis. The second chapter, “Neutralization and Anonymization,” discusses neutralization of threat actors, privacy by design data exchange between CSIRTs, differential privacy, and database anonymization. Finally, the third chapter, “Privacy Policies in Practice,” takes the user on board, discussing privacy by design, privacy scores, privacy data management in health-care, and the trade-offs between privacy and utility.

In addition, four panels were organized:

- “Privacy Regulation in a Global Context Considering New Challenges Like AI” – to examine privacy-friendly solutions for a global market with big data analytics allowing more personalized services
- “Towards a European Data Protection Certification Scheme” – to explore the state of the art of certification mechanisms and data protection seals and marks
- “Practical Implementation of GDPR in Mobile Applications” – to discuss the application of data protection obligations in the area of mobile applications
- “Lawful Interception and PETs” – to find practical solutions between privacy enhancing tools and crime prevention.

We thank Springer for publishing the proceedings of APF2017 in the LNCS series.

APF 2017 would not have been possible without the commitment of many people around the globe volunteering their competence and time. We would therefore like to express our sincere thanks to the members of the PC – and to the authors who entrusted us with their works. Many thanks also go to our sponsors, in particular Microsoft, and to all conference attendees, who honored the work of the authors and presenters. Last but not least, we would like to thank the Organizing Committee. Their excellent and tireless efforts made this event possible.

July 2017

Erich Schweighofer  
Herbert Leitold  
Andreas Mitrakas  
Kai Rannenber

**APF 2017**

**Annual Privacy Forum  
Vienna, Austria, June 7–8, 2017**

Organized by

European Union Agency for Network and Information Security (ENISA)  
European Commission Directorate for Communications Networks,  
Content and Technology (DG CONNECT)  
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