

## Preface

The International Summer School on Foundations of Security Analysis and Design (FOSAD) has promoted the publication of books in the LNCS series that collect a selection of tutorials presented at FOSAD. We are very proud to present the eighth volume in this series, which includes contributions from three editions of FOSAD from 2014 to 2016. The history of FOSAD goes back to 2000, when it was established as a high education cradle for young researchers in the field of security for computer systems and networks. The overall number of participants since the first edition is now more than 750, and many of them have become well-known and appreciated researchers and FOSAD lecturers. Analogously, thanks to the quality and high standard of the lectures, the FOSAD book series represents a clear and comprehensive reference for graduate students and young researchers from academia and industry.

The first two contributions accompany presentations given at FOSAD 2014. The former is presented by Jonathan Bootle, Andrea Cerulli, Pyrros Chaidos, and Jens Groth from University College London. In the setting of proof systems for cryptographic protocols verification, the authors provide an overview of techniques behind the construction of zero-knowledge proofs. The latter is a work by Steven Van Acker and Andrei Sabelfeld from Chalmers University of Technology, who discuss the security of Web applications executing JavaScript code and the sandboxing systems used to restrict and control JavaScript functionalities. A contribution from FOSAD 2015 is authored by Michael Backes, Pascal Berrang, and Praveen Manoharan from Saarland University. They developed a user-centric privacy framework for quantitatively assessing the exposure of personal information in open environments. The proposed methodology is instantiated in the setting of identity disclosure and validated in a large-scale real-world case study. The last contribution, selected from FOSAD 2016, is by Ankur Taly and Asim Shankar, researchers at Google Inc. They define a fully decentralized authorization model for large and open distributed systems. Such a model is deployed as part of an open-source application framework called Vanadium.

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