

Preface

These proceedings contain the papers selected for presentation at the 15th International Conference on Smart Card Research and Advanced Applications (CARDIS 2016), held during November 7–9 and application of smart. The conference was organized by EURECOM and held at the Hôtel Barrière Le Gray d’Albion.

CARDIS has provided a forum for presenting exceptional research on smart cards and related technologies since 1994. Smart cards play an important role in our day-to-day lives, from bank cards to GSM SIMs, and security is vital to keep these systems functioning correctly. The CARDIS conference gathers researchers and technologists who focus on all aspects of the design, development, deployment, evaluation, and application of smart cards and secure elements in secure platforms or systems. The technology used in smart cards, and hence the attack vectors, are expanding to other areas, such as TPMs, HSMs, mobile phones, and the Internet of Things. It is, therefore, more important than ever that we understand how smart cards, and related systems, can be secured.

This year, CARDIS received 29 papers from 17 countries. Each paper was reviewed by at least three independent reviewers. The selection of 15 papers to fill the technical program was accomplished based on 114 written reviews. This task was performed by the 30 members of the Program Committee with the help of 38 external reviewers. The technical program also featured three invited talks. The first invited speaker, Eric Vétillard, from Prove & Run, France, presented “Three Views on IoT Security”; the second speaker, Ventsislav Nikov, from NXP Semiconductors, Belgium, presented “Security Outside the Black-Box Model: Challenges and Countermeasures”; and the third speaker, David Oswald, from the University of Birmingham, UK, presented “Breaking Automotive Remote Keyless Entry Systems, or: Why Your Car Is not a Safe Box.”

We would like to thank the general chair, Aurélien Francillon, and the local Organizing Committee chairs, Ludovic Apvrille and Florian Lugou. We would also like to thank the Program Committee and the external reviewers for their thorough work, which enabled the technical program to achieve such a high quality, and the Steering Committee for giving us the opportunity to serve as program chairs at such a prestigious conference. The financial support of all the sponsors was highly appreciated and greatly facilitated the organization of the conference. In particular, we would like to thank the gold sponsors: NXP Semiconductors, Labex UCN and the Agence Nationale de la Sécurité des Systèmes d’Information (ANSSI). Furthermore, we would like to thank the authors who submitted their work to CARDIS 2016, without whom the conference would not have been possible.

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