Preface

This volume contains the papers presented at VoteID 2015, the fifth edition of the International Conference on E-Voting and Identity held during September 2–4, 2015, in Bern, Switzerland. Previous VoteID conferences were held in Guildford, UK (2013), Tallinn, Estonia (2011), Luxembourg (2009), and Bochum, Germany (2007). This year's VoteID conference was hosted by the Bern University of Applied Sciences. There were 17 submissions by authors from 11 different countries. Each submission was reviewed by at least three, and on average 4.3, Program Committee members in a double-blind procedure. The committee decided to accept ten papers. The conference program also included one keynote and three invited talks. The paper submission, reviewing, and proceedings preparation process was supported by the EasyChair conference management tool.

Bringing one of the world's leading e-voting conferences to Switzerland was a long-desired objective of the conference organizers. In Switzerland's long tradtion of federalism and direct democracy, frequent referendums are held on national, cantonal, and communal levels. Citizens can vote about changes to the constitution or about accepting new laws up to four times a year. This guarantees not only a maximum amount of self-determination to the citizens, but is also an important stabilizing factor for the political system of the country. In addition to the frequent referendums, regular elections take place on all federal levels, usually every four years. Traditionally, voting used to take place either at the ballot box in local election offices or at the cantonal assembly (called *Landsge- meinde*) in a public space by raising hands. Both traditional voting channels still exist today, but their importance has descreased with the general introduction of postal voting on a national level in 1994. Today, postal voting is the most common form of voting in Switzerland and is widely accepted.

Given the high frequency of referendums and elections, providing the most efficient voting channels to Swiss voters is an obvious objective of Swiss election administrations on all levels. It is therefore not surprising that Switzerland has been a pioneering country not only in postal voting, but also in introducing remote voting over the Internet. The first pilots in the cantons of Geneva and Zurich started almost 15 years ago, and another pilot in the canton of Neuchâtel followed a few years later. All three systems are still in use today and are used by multiple cantons. Just recently, they all received a major update in the underlying security concept by introducing individual verifiability based on confirmation codes. Further updates toward universal verifiability are planned for the near future. The results of scientific research have therefore found fertile soil in Switzerland's fundamental democratic processes.

To establish a link between this year's conference location and the general conference topic, we invited Barbara Perriard, Head of the Political Rights Section of the Federal Chancellery, to give a keynote talk on "Vote électronique: The Long Path Towards the Digitalization of Political Rights." She presented the past and the future of the Swiss e-voting projects and outlined the strategy of the federal administration

and the cantons. We also invited Dr. Uwe Serdült from the Centre for Democracy Studies Aarau (ZDA) to give a talk on "The Use and Users of Swiss Internet Voting." He presented Switzerland's experience with e-voting from a political science perspective. On the more technical side of the topic, we had two invited talks by Prof. Alex Halderman from the University of Michigan on "Security Analysis of Estonia's Internet Voting System" and by Prof. Steve Schneider from the University of Surrey on "Verifiable Voting in Victoria: The vVote Project."

We would like to thank everyone who helped in bringing this conference together: the VoteID Steering Committee for their trust in putting this year's edition into our hands; the authors for their submissions; the Program Committee and the external reviewers for their conscientious and timely efforts in reviewing and discussing the submissions; the keynote speaker for her insights into the process of introducing electronic voting in Switzerland; the invited speakers for delivering high-quality presentations on current research issues; the administration of the Swiss Federal Palace for offering a free guided tour to all participants; and Scytl for their generous sponsorship that allowed us to extend the list of invited speakers and to support students in attending the conference. Finally, we thank our home institution, the Bern University of Applied Sciences, for its support.

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Springer

E-Voting and Identity
5th International Conference, VoteID 2015, Bern,
Switzerland, September 2-4, 2015, Proceedings
Haenni, R.; Koenig, R.E.; Wikström, D. (Eds.)
2015, IX, 173 p. 33 illus., Softcover