

Tuesday, 2 October 2018

Pre-Conference Programme

10.30 PhD Colloquium Session I

- Welcome: **Tomasz Truderung & Reto Koenig**
- Why paper-based voting is the most secure option? **Tamara Finogina**
- The impact of I-voting on conventional voting channels **Iuliia Krivososova**

12.00 Lunch for PhD Colloquium and Programme Committee Members only

13.00 PhD Colloquium Session II

- How to solve the transparency-anonymity dilemma? **Thomas Weiler**
- Formal Verification of Selene using the Tamarin prover **Marie-Laure Zollinger**
- Blockchain Technology for End-To-End Verifiable Elections on Internet Voting Systems. The Estonia Case-study - **Rodrigo Silva**

14.30 Coffee Break

14.45 PhD Colloquium Session III

- The Risk Limit of Bayesian Audits - **Kellie Ottoboni**
- The analysis of the electoral turnout of non-electronic and electronic voting in Ecuador - **Tania Ernestina Erazo Villacres**
- Discussion

14.00 Programme Committee Meeting by invitation only

16.00 DEMO Session

18.00 Welcome Reception

Travel Information

The Conference Venue

Schloss Hofen, the prominent Renaissance castle of the Earls of Raitenau, has been home to the International Center for Science and Continuing Education since 1981. It is situated at the shore of Lake Constance in Lochau, which is right next to the region's capital Bregenz.

Address

Zentrum für Wissenschaft und Weiterbildung
Hoferstraße 26, 6911 Lochau/Bregenz, Austria
Phone: +43 5574 4930-0 / info@schlosshofen.at

How to get there

By Car

- The address for gps-navigation is: Schloss Hofen, Hoferstrasse 26, 6911 Lochau, Austria
- From Austria /Switzerland: Take the highway A14 through the "Pfändertunnel" and exit at Lochau-Hörbranz. Take a left into Lochau. After 700 meters turn left again at the OMV gas station. You will arrive at Castle Hofen on your right after 550 meters.
- From Germany: Take highway E43 and exit after the former customs office "Hörbranz Zollamt". From there, proceed as described above after the exit at Lochau-Hörbranz.

By Public Transportation

Take the train to Bregenz and then please take a taxi. NB! Please do not go to Lochau by train or bus as there are no taxis available in Lochau.

By Plane

Bregenz does not have an airport. There are several international airports nearby: Friedrichshafen (FDH, 30min by taxi) and Munich (MUC, 3h by train to Lindau and then 20min taxi) in Germany, Altenrhein (ACH, 30 min by taxi) Zurich Airport (ZRH, 1h train to Bregenz + 15min taxi) in Switzerland. Most conference participants come via Zurich, train and then take a taxi from Bregenz train station.

Bus Shuttle

We have established a bus shuttle from Bregenz to Castle Hofen. Download it here <https://www.e-vote-id.org/buss Shuttle/>.

Third International
Joint Conference on Electronic Voting

E-Vote-ID 2018

2 – 5 October 2018
Bregenz, Austria

FINAL PROGRAMME

Co-organized with



Supported by



Wednesday, 3 October 2018

Main Conference Programme

08.00 Registration opens

09.00 Opening & Keynote

- Chair: **Robert Krimmer**
- Behavioral aspects of internet voting. Evidence from 8 elections over 10 years in Estonia – **Kristjan Vassil**

10.30 Coffee Break

11.00 Session 1: Managerial and Legal Issues

- Chair: **Uwe Serdült**
- Winning the election, but losing the litigation: A prognosis of Nigerian judicial attitude to evidence produced from 'e-voting machines' - **Felix Oludare Omosele**
- How much does an e-vote cost? Compared Costs per Vote in Multichannel Elections in Estonia - **Robert Krimmer, David Duenas-Cid, Iuliia Krivonosova, Priit Vinkel and Arne Koitmaa**
- Legal issues of online participation in municipalities and universities in the Federal Republic of Germany - **Frank Bätge**

12.30 Lunch

14.00 Session 2: Improving Models

- Chair: **Steven Martin**
- Process Models for Universally Verifiable Elections - **Rolf Haenni, Eric Dubuis, Reto Koenig and Philipp Locher**
- Usability is not Enough: Lessons Learned from 'Human Factors in Security' Research for Verifiability - **Oksana Kulyk and Melanie Volkamer**
- Defining a national framework for Online Voting and meeting its requirements: the Swiss experience - **Jordi Puiggalí and Adria Rodríguez-Pérez**
- Email Voting in Indiana Elections - **Jason Thompson**

16.00 Coffee Break

16.30 Session 3: Protocols

- Chair: **Véronique Cortier**
- Model Checking the SELENE E-Voting Protocol in Multi-Agent Logics - **Wojtek Jamroga, Michał Knapik and Damian Kurpiewski**
- An Internet Voting Protocol with Distributed Verification Receipt Generation - **Kristjan Krips, Ivo Kubjas and Jan Willemson**
- Electryo, a Paper-Based Electronic Voting Scheme with Individual Verifiability and Universal (Eligibility) Verifiability - **Peter Roenne, P. Y. A. Ryan and Marie-Laure Zollinger**

18.00 Closing of the Day

19.00 Reception in Bregenz

Thursday, 4 October 2018

Main Conference Programme

09.00 Keynote

- Chair: **Melanie Volkamer**
- Verifiable E-Voting in Switzerland - **Oliver Spycher**

10.00 Session 4: Lessons Learned

- Chair: **Gregor Wenda**
- Faults in Norwegian Internet Voting
Christian Bull, Kristian Gjøsteen and Henrik Nore
- Paper and digital: in search of 'the best of both worlds' in establishing the outcome of elections
Peter Castenmiller and Pamela Young

10.45 Coffee Break

11.15 Session 5: Evaluating Practical Experiences

- Chair: **David Duenas-Cid**
- The E-voting Readiness Index and the Netherlands
Leontine Loeber
- Online Voting in Indigenous Nations: Lessons From Canada
Nicole Goodman, Chelsea Gabel and Brian Budd
- Internet Voting and Trust in the Swiss Context
Uwe Serdült and Victor Kryssanov

12.30 Lunch

14.00 Session 6: Counting functions | Blockchain

- Chair: **Olivier Pereira**
- Rounding Considered Harmful
Carsten Schürmann (Presented by Peter Roenne)
- Modular Formalisation and Verification of STV Algorithms
Milad K. Ghale, Dirk Pattinson, Mukesh Tiwari and Rajeev Gore
- Implementing an audio side channel for paper voting
Kristjan Krips, Jan Willemson and Sebastian Värvi
- On Trade-offs of Applying Block Chains for Electronic Voting Bulletin Boards
Sven Heiberg, Ivo Kubjas, Janno Siim and Jan Willemson

16.00 Coffee Break

16.30 Plenary Discussion: Blockchain for e-voting: for which purpose?

- Moderator: **Véronique Cortier**
- Panelists: **Aleksander Essex, Thomas Haines, Olivier Pereira, Costa Vayenas**

18.00 Best Paper Award Ceremony

19.00 Conference Dinner („Cheese Road“)

Friday, 5 October 2018

Main Conference Programme

9.00 Session 7: Risk-Limiting Audits

- Chair: **Rajeev Gore**
- The Threat of SSL/TLS Stripping in Online Voting
Anthony Cardillo and Aleksander Essex
- Ballot-polling Risk Limiting Audits for IRV Elections
Michelle Blom, Peter Stuckey and Vanessa Teague
- A New Method for Stratified Risk-Limiting Audits
Kellie Ottoboni, Philip Stark, Mark Lindeman and Neal McBurnett

10.30 Coffee Break

11.00 Session 8: Attacks

- Chair: **Vanessa Teague**
- Brazilian E-Voting Ecosystem: New possibilities of hacking activism (?) – **Rodrigo Silva**
- Computing the Margin of Victory in Preferential Parliamentary elections - **Michelle Blom, Peter Stuckey and Vanessa Teague**

12.00 Rump Session

- Chairs: **Uwe Serdült & Steven Martin**

13.00 Closing of the Conference + Lunch

General Inquiries

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