

# E-Vote-ID<sup>2020</sup>

## Digital Conference

**MAIN PROGRAMME**

All times are CEST (GMT+2)

**Wed, 7 Oct 2020**

- 15.00–15.45 **Opening of the conference - Robert Krimmer and Melanie Volkamer**
- 15.45–16.00 Coffee Break
- 16.00–16.45 **Session 1 : Manipulation, Audits and Veto** Chair : *Berhard Beckert*
- › Shifting the Balance-of-Power in STV Elections - *Michelle Blom, Andrew Conway, Peter Stuckey and Vanessa Teague*
  - › Random errors are not necessarily politically neutral - *Michelle Blom, Andrew Conway, Peter Stuckey, Vanessa Teague and Danjan Vukcevic*
  - › Post-Quantum Anonymous Veto Networks - *Jintai Ding, Johannes Mueller, Peter Y.A. Ryan, Vonn Kee Wong and Doug Emery*
- 16.45–17.00 Coffee Break
- 17.00–17.45 **Session 2 : Impacts and Failures of Internet Voting** Chair : *Mihkel Solvak*
- › Enhancing Self-determination and Capacity-Building: Online Voting in the Indigenous Communities of Canada, Australia and the United States - *Maximilian Hee*
  - › Tripped at the finishing line: the Aland Islands internet voting project - *David Duenas-Cid, Iuliia Krivososova, Radu Antonio Serrano-Iova, Marlon Freire and Robert Krimmer*
  - › Reviewing the Costs of Multichannel Elections: Estonian Parliamentary Elections 2019 - *Iuliia Krivososova, David Duenas-Cid and Robert Krimmer*
- 17.45–18.00 Coffee Break
- 18.00–18.45 **Session 3 : Voting Technology Developments in Estonia and France and COVID-19 Pandemic impacts in Ukraine** Chair : *Beata Martin-Rozumilowicz*
- › Planning the next steps for Estonian Internet voting - *Jan Willemson, Sven Heiberg and Kristjan Krips*
  - › Some Things you may Want to Know about Electronic Voting in France - *Chantal Engehard and Camille Noûs*
  - › Cyberattacks, Foreign Interference and Digital Infrastructure Robustness: How to Conduct Secure Elections in the Transatlantic Community Amid the Coronavirus Pandemic - *Beata Martin-Rozumilowicz and David Levine*
- 18.45 Closing of the Day

**Thu, 8 Oct 2020**

- 15.00–15.45 **Session 4 : Legal Aspects and Evaluation of Internet Voting Experiences** Chair : *David Duenas-Cid*
- › Secure Online Voting for Legislative Divisions - *Aleksander Essex and Nicole Goodman*
  - › E-Voting System evaluation based on the Council of Europe recommendations: nVotes - *David Yeregui Marcos Del Blanco, David Duenas-Cid and Hector Alaiz Moreton*
  - › My vote, my (personal) data: remote electronic voting and the General Data Protection Regulation - *Adrià Rodríguez-Pérez*
- 15.45–16.00 Coffee Break
- 16.00–16.45 **Session 5 : Best Practices and Usable Coercion Resistance** Chair : *Johannes Müller*
- › CHVote: Sixteen Best Practices and Lessons Learned - *Rolf Haenni, Eric Dubuis, Reto Koenig and Philipp Locher*
  - › Human Factors in Coercion Resistant Internet Voting - A Review of Existing Solutions and Open Challenges - *Oksana Kulyk and Stephan Neumann*
  - › Revisiting Practical and Usable Coercion-Resistant Remote E-Voting - *Ehsan Estaji, Thomas Haines, Kristian Gjosteen, Peter Roenne, Peter Y. A. Ryan and Najmeh Soroush*
- 16.45–17.00 Coffee Break
- 17.00–17.45 **Session 6 : Developments in Technology in Elections from European Examples** Chair : *Stéphanie Planté*
- › The Election Information System in Finland in 2035 – A Lifecycle Study - *Juha Mäenalusta and Heini Huotari*
  - › Pushing water uphill; Renewal of Dutch electoral process - *Peter Castenmiller and Arjan Dijkmans*
  - › Blockchain-Enabled Electronic Voting: Experiments in Ukraine - *Dmytro Khutkyy*
- 17.45–18.00 Coffee Break
- 18.00–18.45 **Session 7 : Schemes and Attacks** Chair : *Oksana Kulyk*
- › Privacy-preserving Dispute Resolution in The Improved Bingo Voting - *Rosario Giustolisi and Alessandro Bruni*
  - › Ballot Logistics: Tracking Paper-based Ballots Using Cryptography - *Kristian Gjosteen, Clémentine Critti and Kelsey N. Moran*
  - › How to fake zero-knowledge proofs, again - *Veronique Cortier, Pierrick Gaudry and Quentin Yang*
- 18.45 Closing of the Day

**Fri, 9 Oct 2020**

- 15.00–15.45 **Session 8 : Proposed Effective Responses to Technology in Elections Problems** Chair : *Oliver Spycher*
- › Verify My Vote: Voter Experience - *Mohammed Alsadi and Steve Schneider*
  - › You can do RLAs for IRV: The Process Pilot of Risk-Limiting Audits for the San Francisco District Attorney 2019 Instant Runoff Vote - *Michelle Blom, Andrew Conway, Dan King, Laurent Sandrolini, Philip Stark, Peter J. Stuckey and Vanessa Teague*
  - › Effective Cybersecurity Awareness Training for Election Officials - *Carsten Schuermann, Lisa Hartmann Jensen and Rósa María Sigbjörnsdóttir*
- 15.45–16.00 Coffee Break
- 16.00–16.45 **Session 9 : Confidence and Costs** Chair : *Magdalena Musial-Karg*
- › The Oxymoron of the Internet Voting in Illiberal and Hybrid Political Contexts - *Bogdan Romanov and Yury Kabanov*
  - › Does vote verification work usage and impact of confidence building technology in Internet voting - *Mihkel Solvak*
  - › Internet Voting and Expatriate Voter Turnout - *Micha Germann*
- 16.45–17.00 Coffee Break
- 17.00–17.45 **Session 10 : Audits and Verification** Chair : *Ralf Küesters*
- › Bayesian audits are average but risk-limiting audits are above average - *Amanda Glazer, Jacob Spertus and Philip Stark*
  - › A Unified Evaluation of Two-Candidate Ballot-Polling Election Auditing Methods - *Zhuoqun Huang, Ronald L. Rivest, Philip Stark, Vanessa Teague and Danjan Vukcevic*
  - › Towards Model Checking of Voting Protocols in Uppaal - *Wojtek Jamroga, Yan Kim, Damian Kurpiewski and Peter Y. A. Ryan*
- 17.45–18.00 Coffee Break
- 18.00–18.30 **Session 11 : Demo Session** Chairs : *Peter Roenne and Stéphane Glondou*
- › Polys Blockchain-Based Voting System - *Aleksandr Korunov, Aleksandr Sazonov and Petr Murzin*
  - › Vocdoni - Making governance sovereign - *Roger Baig and Pau Escrich*
- 18.30–19.00 **Session 12 : Rump Session**
- 19.00 Closing of the Conference