

Wednesday, 6 October 2021 Main Conference Programme

14.30 **Opening of the Conference – Robert Krimmer, Melanie Volkamer and David Duenas-Cid**

15.00 – 15.45 **Keynote Speech: Matthew Masterson (Non Resident Policy Fellow, Stanford Internet Observatory)**

16.00 – 16.45 **Session 1: Improving Verifiability**

Chair: Oksana Kulyk

- STROBE-Voting: Send Two, Receive One Ballot Encoding – **Josh Benaloh**
- Improved Verifiability for BeleniosVS – **Thomas Haines and Rajeev Goré**
- Provably improving election verifiability in Belenios – **Sevdnur Baloglu, Sergiu Bursuc, Sjouke Mauw and Jun Pang**

17:00 – 17.45 **Session 2: Internet Voting: Behavioral aspects**

Chair: Micha Germann

- Party cues and trust in remote internet voting: data from Estonia 2005-2019 – **Piret Ehin and Mihkel Solvak**
- To I-vote or Not to I-vote: Drivers and Barriers to the Implementation of Internet Voting – **Nathan Licht, David Duenas-Cid, Iuliia Krivonosova and Robert Krimmer**
- Turnout in e-voting pilots in the 2021 presidential elections in Ecuador – **Régis Dandoy**

18.00 – 18.45 **Session 3: On the offensive: IT Threats**

Chair: Thomas Hofer

- Penetration Testing a US Election Blockchain Prototype – **Shawn Emery, C. Edward Chow and Richard White**
- How to Break Virtual Shareholder Meetings: An Empirical Study – **Andreas Mayer**
- Tales from the Trenches: Case Studies in Election Cybersecurity Preparedness in Texas – **Elizabeth Kasongo, Matthew Bernhard and Chris Bronk**

19.00 – 19.45 **Session 4: Poster and Demo Session**

Chair: Stéphane Glondu

Thursday, 7 October 2021 Main Conference Programme

15.00 – 15.45 Keynote Speech: Toomas Hendrik Ilves (Former President of Estonia)

16.00 – 16.45 Session 5: Risk-limiting Audits: A Practical Systematization of Knowledge

Chair: Josh Benaloh

- RiLACS: Risk limiting audits via confidence sequences – **Ian Waudby-Smith, Philip Stark and Aaditya Ramdas**
- Assertion-based Approaches to Auditing Complex Elections, with application to party-list proportional elections – **Michelle Blom, Jurlind Budurushi, Ron Rivest, Philip Stark, Peter J. Stuckey, Vanessa Teague and Damjan Vukcevic**
- Attacking Risk-limiting Audits – **Matthew Bernhard**

17.00 – 17.45 Session 6: Managing election integrity

Chair: Mihkel Solvak

- Retaining Election Officials is Imperative to Secure Future Elections – **David Levine**
- Vote Secrecy and Voter Feedback in Remote Voting – Can We Have Both? – **Jan Willemson, Priit Vinkel and Arne Koitmäe**
- Australian Senate Scrutiny Reform Proposal – **Ian Brightwell**

18.00 – 18.45 Session 7: Security of electronic and paper-based voting

Chair: Peter Y A Ryan

- Cyber Awareness Training for Election Staff using Constructive Alignment – **Thomas Chanussot and Carsten Schuermann**
- And Paper-Based is Better? Towards Comparability of Classic and Cryptographic Voting Schemes – **Marc Nemes, Rebecca Schwerdt, Dirk Achenbach, Bernhard Löwe and Jörn Müller-Quade**
- Improving the Accuracy of Ballot Scanners Using Supervised Learning – **Sameer Barretto, William Chown, David Meyer, Aditya Soni, Atreya Tata and J. Alex Halderman**

19.00 – 19.45 Session 8: Technology in Elections on the African Continent

Chair: Mike Yard

- **Collins Onyemaobi (Independent Electoral Technology Consultant)**
- **John Maphephe (Senior Electoral Technology Advisor)**
- **Colin Thakur (Durban University of Technology)**
- **Nic Cheeseman (University of Birmingham)**

Friday, 8 October 2021 Main Conference Programme

15.00 – 15.45 Keynote Speech: Dan Popescu (Head of the Department of Democracy and Governance, Council of Europe)

16.00 – 16.45 Session 9: Enhancing Privacy in Voting

Chair: Carsten Schürmann

- Who was that masked voter? The tally won't tell! –
Peter Y A Ryan, Peter B Roenne, Philip B Stark, Dimiter Ostrev, Najmeh Soroush and Fatima-Ezzahra El Orche
- Extending the Tally-Hiding Ordinos System: Implementations for Borda, Hare-Niemeyer, Condorcet, and Instant-Runoff Voting –
Fabian Hertel, Nicolas Huber, Jonas Kittelberger, Ralf Küsters, Julian Liedtke and Daniel Rausch
- Hyperion: An Enhanced Version of the Selene End-to-End Verifiable Voting Scheme –
Peter Y A Ryan, Peter B Roenne and Simon Rastikian

17.00 – 17.45 Session 10: The Road to Deploying e-Voting

Chair: Beata Martin-Rozumiłowicz

- The challenges of enabling public scrutiny – **Xavier Monnat and Simon Oswald**
- Use of Electronic Voting in the Albanian Parliamentary Elections in 2021 – **Jurlind Budurushi**
- Use of innovative technologies in the electoral process in Armenia –
Ardita Driza Maurer, Justin Nettmann and Rafik Grigoryan

18.00 – 18.45 Session 11: Usability and Voter Perception

Chair: Peter Roenne

- Voter Perceptions of Trust in Risk-Limiting Audits – **Asmita Dalela, Oksana Kulyk and Carsten Schürmann**
- Usable Verifiable Secrecy-Preserving E-Voting –
Oksana Kulyk, Reto König, Philipp Locher, Jonas Ludwig and Melanie Volkamer
- Just for the sake of transparency: Exploring Voter Mental Models of Verifiability –
Marie-Laure Zollinger, Ehsan Estaji, P. Y. A. Ryan and Karola Marky

19.00 – 19.45 Rump Session

Tuesday, 5 October 2021 Pre-Conference Programme

Chairs: Iuliia Krivonosova, Marie Laure Zollinger

15.00-15.50 PhD Colloquium Session 1

- Evaluating Voter's Assessment of Verifiability Using Text Classification with Machine Learning – **Ehsan Estaji**
- Fault Tolerant Result Collation Scheme for Nigerian Electoral System – **Adeoye Olayinka Olaoluwa and Rafiu Ganiyu**

16.00-16.50 PhD Colloquium Session 2

- A New Technique for Deniable Vote Updating – **Najmeh Soroush**
- Why does e-voting have to be perfect? – **Tamara Finogina**

17.00-17.50 PhD Colloquium Session 3

- Electronic voting in Russia: the scrutiny of 'e-voting' in an authoritarian context – **Bogdan Romanov**
- Regulating Internet voting by analogy: does it work? Challenges and concerns for secret suffrage – **Adrià Rodríguez-Pérez**

18.00-19.20 PhD Colloquium Session 4

- To i-vote or not to i-vote: Drivers and Barriers to the Implementation of Internet Voting – **Nathan Licht**
- Technological Change of ONPE, an Electoral Management Body in Peru – Voters and civil servants' perceptions – **Pablo Hartill**
- Trust and E-Voting – **Peeter Leets**