



Welcome to the 4th International Joint Conference on Electronic Voting

E-Vote-ID 2019

Robert Krimmer



Melanie Volkamer



What is special about this conference?



- 15 Years of E-Vote Conferences
- Interdisciplinary character: Legal science, political science, social science, technical background
- Attracts various stakeholders: Researchers, practitioners, decision makers, vendors
- Pre-Program: PhD workshop and demo/poster-session
- Publications with LNCS (Springer) and TUT Press



Steering Committee

- Jordi Barrat (EVOL2 – eVoting Research Lab)
- Josh Benaloh (Microsoft Research)
- Nicole Goodman (University of Toronto)
- Robert Krimmer (Tallinn University of Technology)
- Peter Y A Ryan (University of Luxembourg)
- Oliver Spycher (Federal Chancellery)
- Vanessa Teague (University of Melbourne)
- Melanie Volkamer (Karlsruhe Institute of Technology)
- Gregor Wenda (Federal Ministry of the Interior)

- General Chairs: R. Krimmer, M. Volkamer

Track Chairs of E-Vote-ID 2019



- Véronique Cortier, Bernhard Beckert and Ralf Küsters
Security, Usability, and Technical Issues Track
- Uwe Serdült and David Duenas-Cid
Administrative, Legal, Political & Social Issues Track
- Jörg Helbach and Oliver Spycher
Election and Practical Experiences Track
- Reto Koenig and Ardita Driza-Maurer
PhD Colloquium
- Peter Roenne
Poster and Demo Session
- Peter Roenne and Iuliia Krivonosova
Outreach



Numbers of E-Vote-ID 2019

- 58 PC members
- 61 submissions
 - PhD Colloquium: 5 Submissions
 - Technical: 26 Papers
 - Admin: 13 Papers
 - Practical: 5 Papers
 - Poster + Demo Session: 12 Submissions
- 13 accepted for LNCS
- 10 accepted for TUT

More Numbers of E-Vote-ID 2019



- 110 participants
- 94 from Europe
- 9 from North America
- 2 from South America
- 4 from Australia
- 1 from Asia

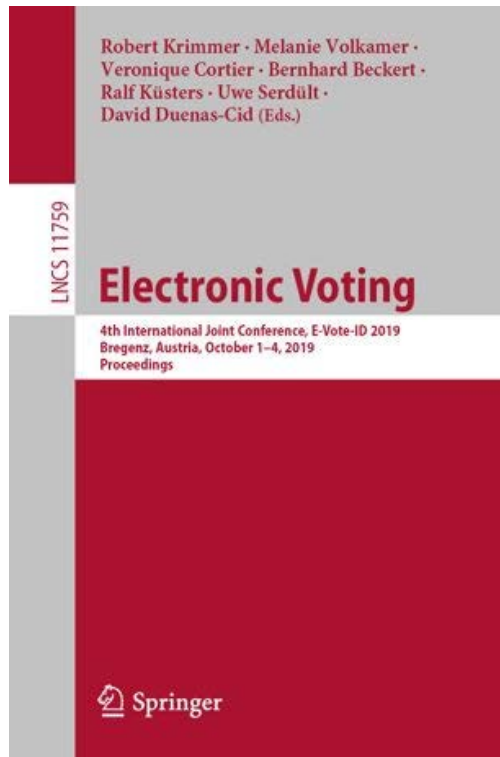
Programme



- 8 sessions
- 3 invited talks
 - Anne-Marie Oostveen
 - Oliver Spycher & Philipp Eggert
 - Dan Zimmerman
- Plenary discussion chaired by Armin Rabitsch
- Rump Session organized by Alexander Essex



Proceedings



The Springer LNCS proceedings and TUT Press Proceedings are available for download for free at the E-Vote-ID website (www.e-vote-id.org/proceedings/).



Please blog / twitter / facebook about the conference using

#EVoteID2019

15 Years of E-Vote Conferences 2004-2019



Friday RUMP Session

Short, informal talks (7 minutes)

Work in progress

New results

Hot topics

Contact Aleks

- aessex@uwo.ca
- @aleksessex

15 Years of E-Vote Conferences 2004-2019



The conferences as

- A place for sharing knowledge and experience
- A place for networking: researchers, practitioners and vendors

15 Years of E-Vote Conferences 2004-2019



An Overview of the Development in the Past 15 Years and Current Discussions

David Duenas-Cid

15 Years of E-Vote Conferences 2004-2019



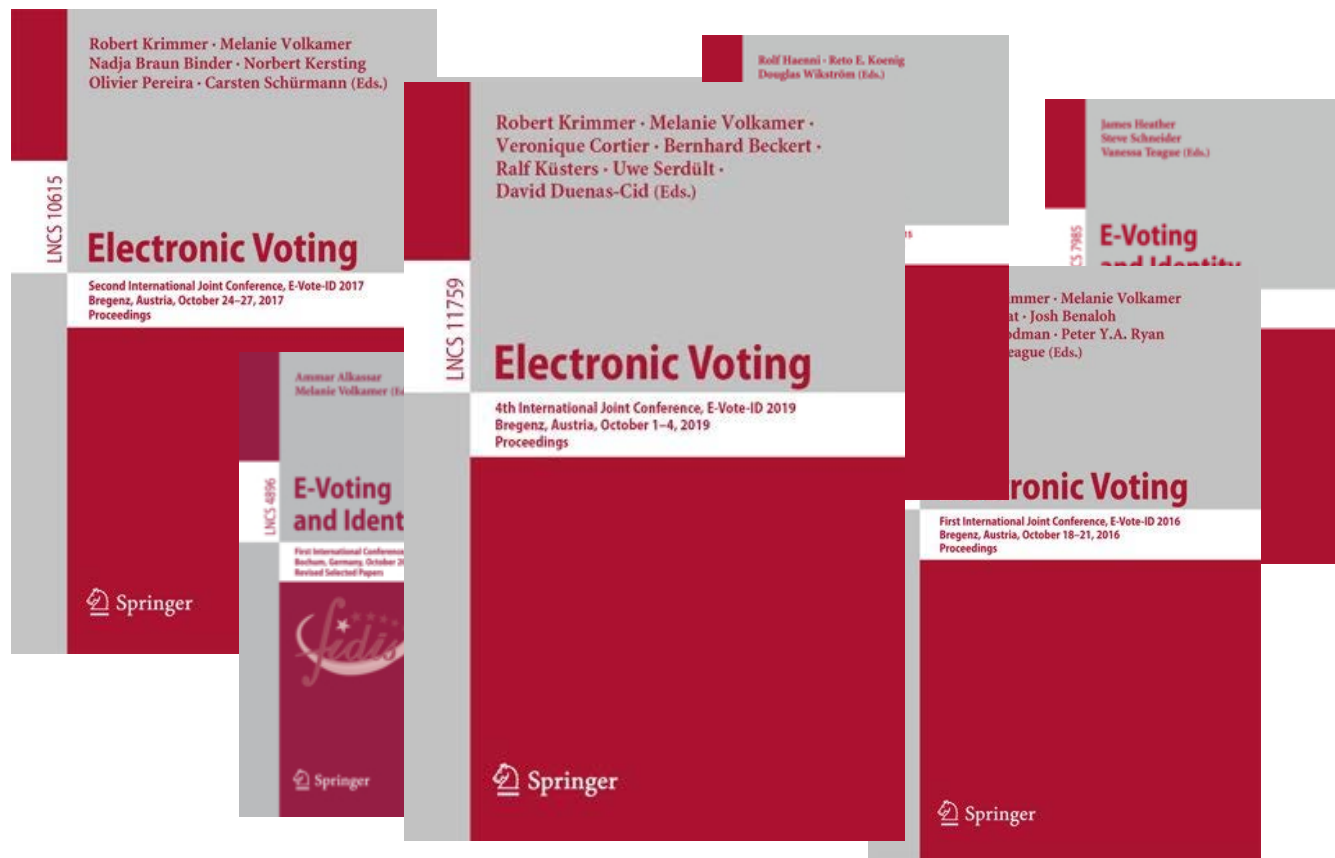
We focused on formal Academic Collaboration

- **co-authorship**
- **shared editing of publications**
- joint supervision of PhD projects
- writing research proposals together
- participation in formal research programs
- jointly organizing scientific conferences.

15 Years of E-Vote Conferences 2004-2019



Analysis of the **network of co-authorship** from the E-Vote, Vote-ID and E-Vote-ID Conference series Proceedings



15 Years of E-Vote Conferences 2004-2019



Some raw data

14 books

228 articles

628 collaborators, between authors and editors

2.764 citations

184,3 citations per year

12,1 citations per article

15 Years of E-Vote Conferences 2004-2019



Creation of a **network**

Author and publication – nodes (616)

Collaborations – edges (1.518)

15 Years of E-Vote Conferences 2004-2019



2004

2006

2007

2008 2015

2009 2016

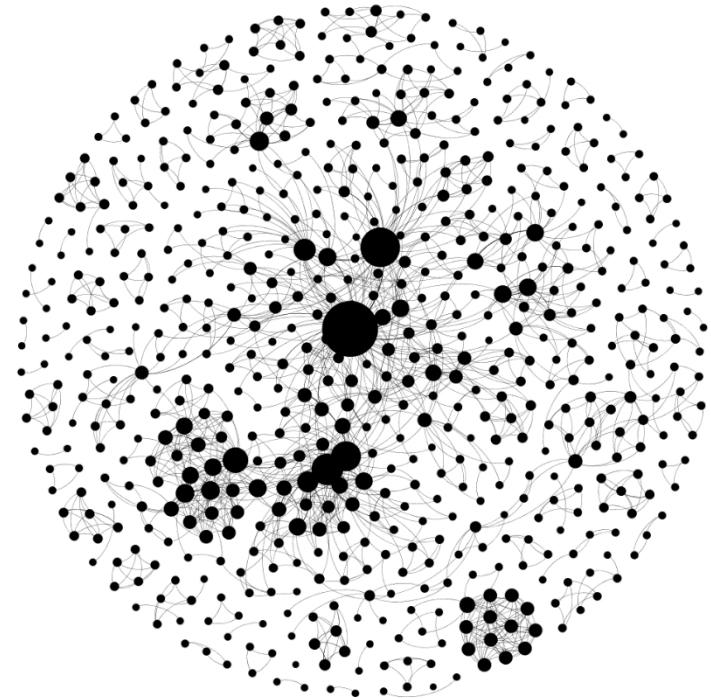
2010 2017

2011 2018

2012

2013

2014

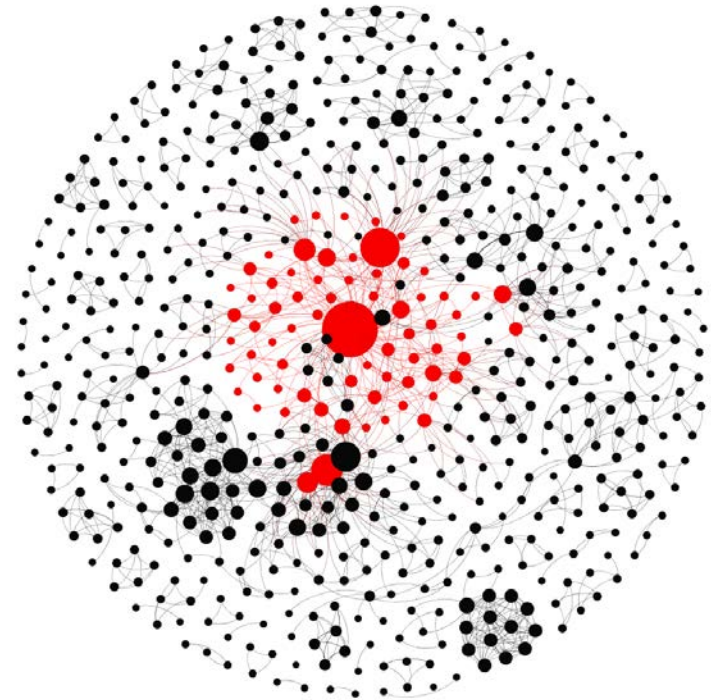


15 Years of E-Vote Conferences 2004-2019



Centrality: Number and relevance of contacts

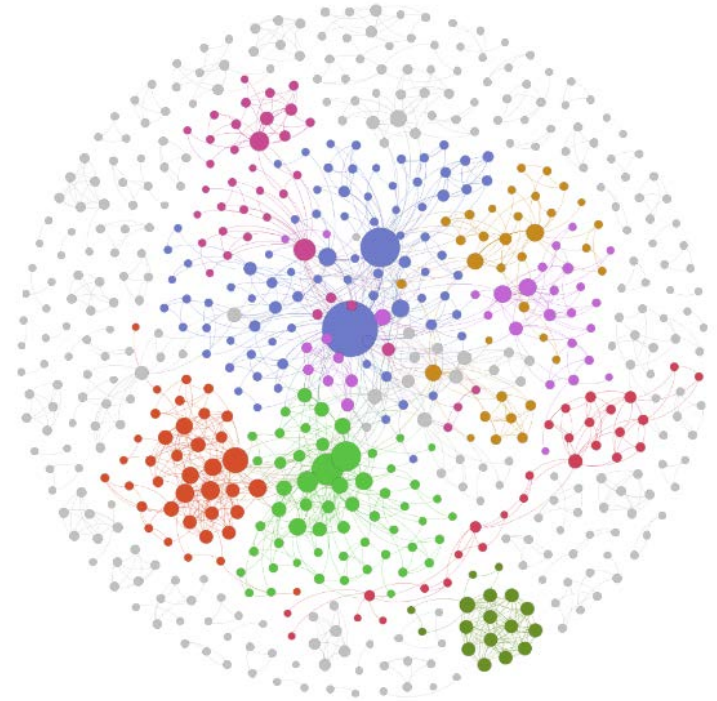
Author	Nodes
M Volkamer	87
R Krimmer	58
V Teague	44
PYA Ryan	41
P Vora	33
C Schürmann	27
S Schneider	25
R Goré	22
A Essex	21
S Popoveniuc	21



15 Years of E-Vote Conferences 2004-2019



Modularity: Detection of hubs based on the shared connections

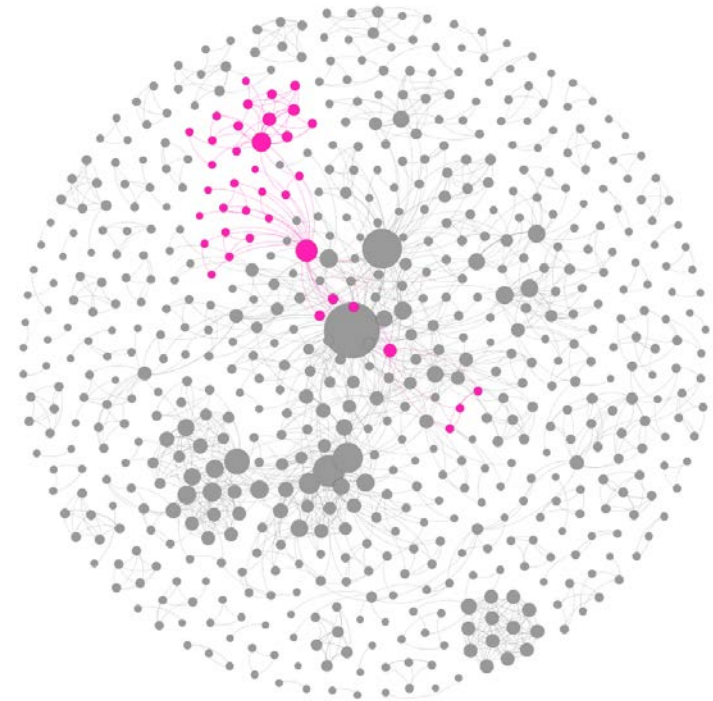
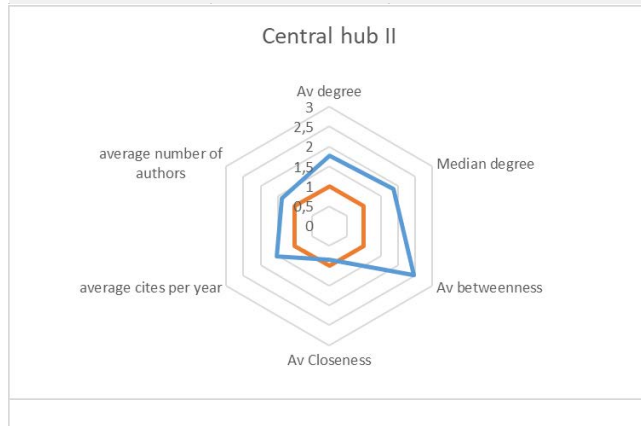


15 Years of E-Vote Conferences 2004-2019



Central Hubs

Name	Degree	Betweenness
V Teague	44	8.330
PYA Ryan	41	8.240
S Schneider	25	1.951
R Wen	19	694
Z Xia	19	200
J Heather	17	78
J Benaloh	16	4.978
C Culnane	15	257
JA Halderman	14	1.026
D Demirel	13	304

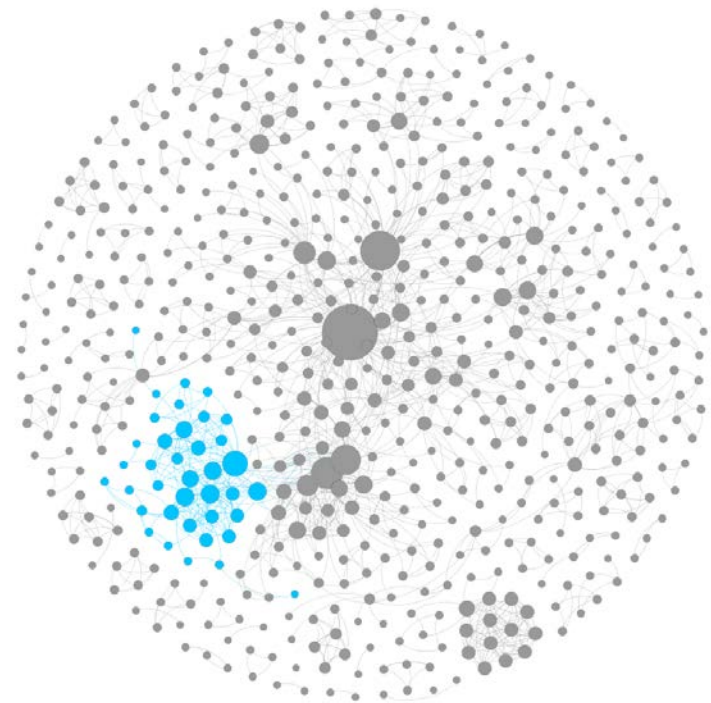
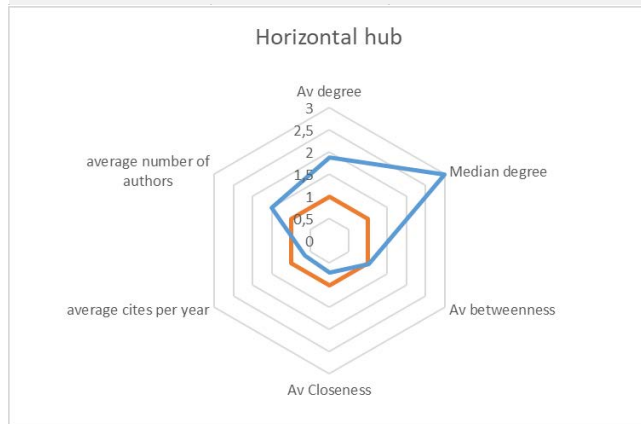


15 Years of E-Vote Conferences 2004-2019



Peripheral Hubs

Name	Degree	Betweenness
P Vora	33	6.278
A Essex	21	223
S Popoveniuc	21	1.658
R Rivest	20	232
R Carback	19	56
D Chaum	18	27
F Zagorski	18	41
J Clark	15	640
A Florescu	14	8
J Rubio	14	8

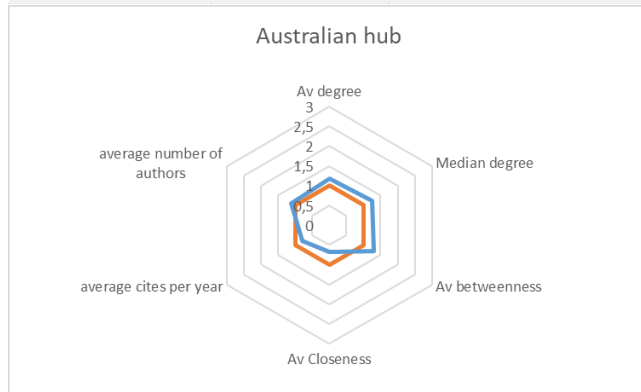


15 Years of E-Vote Conferences 2004-2019

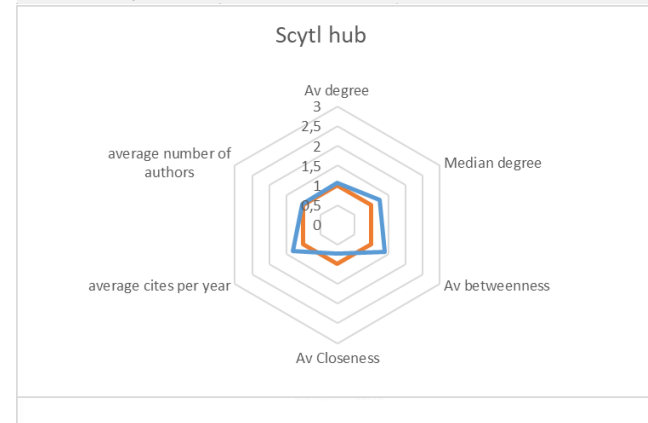


Thematic Hubs

Name	Degree	Betweenness
R Goré	22	4.485
D Pattinson	12	4
M Tiwari	9	2
MK Ghale	7	1
LB Moses	5	0
R Levy	5	0
T Meumann	5	1
B Beckert	3	0
JE Dawson	3	0
E Lebedeva	2	0



Name	Degree	Betweenness
J Puiggalí	17	2.750
S Guasch	11	799
J Cucurull	7	631
A Fornós	5	1
J Lladós	5	1
Jl Toledo	5	1
D Galindo	3	0
M Soriano	3	109
V Morales-Rocha	3	1
K Krips	3	0



15 Years of E-Vote Conferences 2004-2019



Conclusions

- Better understanding of internal patterns of functioning: norms, behaviors and collaborations
- Different centralities and different authorities in the field
- Different relational environments and secondary centralities within the same network: Different priorities and publishing strategies or patterns of collaboration.
- Centrality and authority versus singularity

Thank you



To our co-organizers:

**TAL
TECH**

Gesellschaft
für Informatik



 *e-voting.cc*

To our supporters:

