Projects (Past, Current, and Future)

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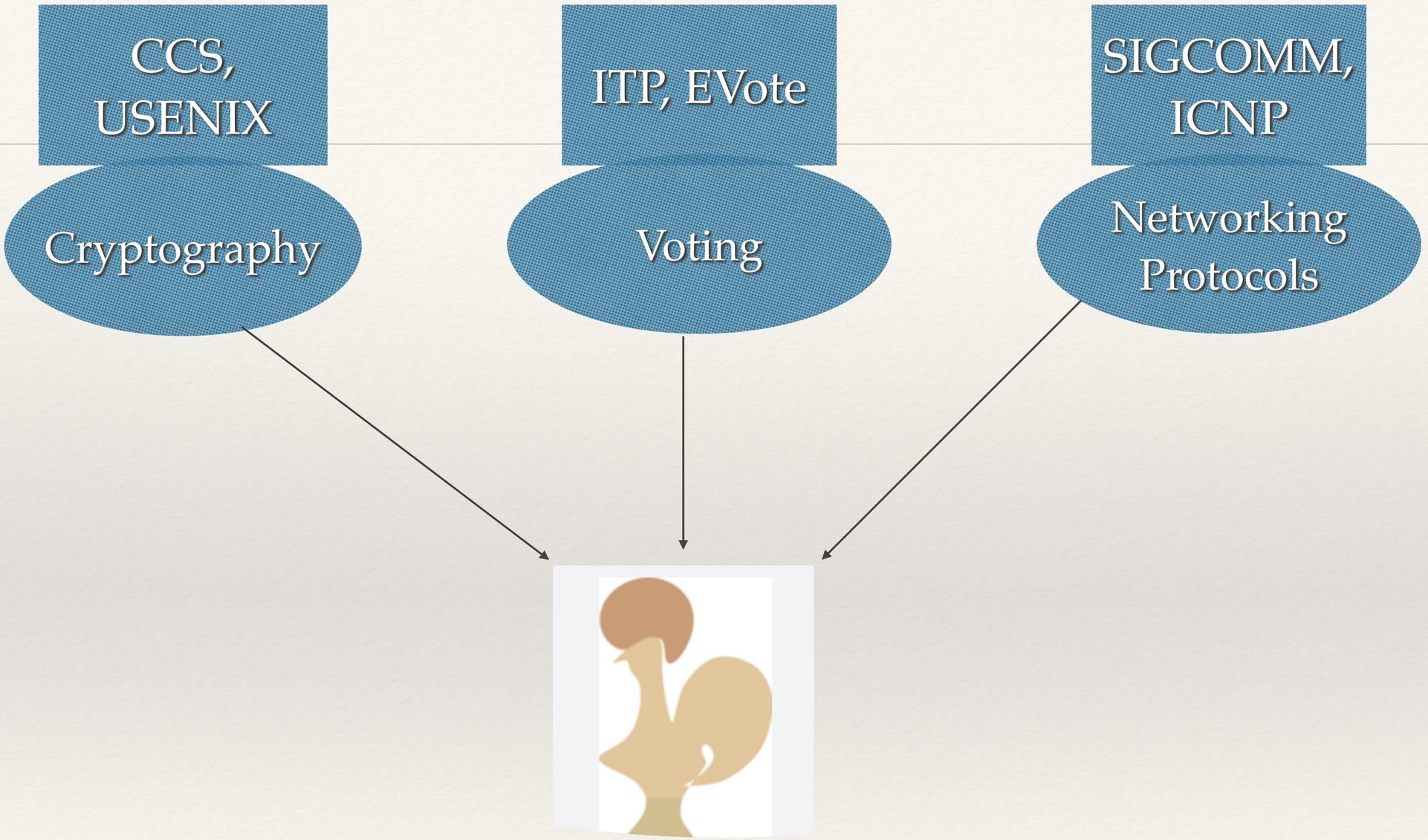
CCS, USENIX
ITP, EVote
SIGCOMM, ICNP
Cryptography
Voting
Networking Protocols

Schulze Voting as Evidence Carrying Computation

Dirk Pattinson & Mukesh Tiwari

Conference paper

948 Accesses | 6 Citations

Part of the Lecture Notes in Computer Science book series (LNTCS,volume 10499)

No More Excuses: Automated Synthesis of Practical and Verifiable Vote-Counting Programs for Complex Voting Schemes

Lyria Bennett Moses, Rajeev Goré, Ron Levy, Dirk Pattinson & Mukesh Tiwari

Conference paper | First Online: 06 October 2017

Modular Formalisation and Verification of STV Algorithms

Milad K. Ghale, Rajeev Goré, Dirk Pattinson & Mukesh Tiwari

RESEARCH-ARTICLE

Verified Verifiers for Verifying Elections

Authors: Thomas Haines, Rajeev Goré, Mukesh Tiwari Authors Info & Claims

Machine-checking Multi-Round Proofs of Shuffle: Terelius-Wikstrom and Bayer-Groth

Authors:
Thomas Haines, *Australian National University;* Rajeev Gore, *Polish Academy of Science;* Mukesh Tiwari, *University of Cambridge*

Submitted

Your Submissions

#784 Assume but Verify: Deductive Verification of Leaked Information in Concurrent Applications **Submitted**

Welcome to the SIGCOMM 2023 submissions site.

Your Submissions

#124 CAPP: Combinators for Algebraic Path Problems **Submitted**

The deadline for registering submissions has passed

Future Project

- Session Types for Voting (distributed voting centres, each collecting votes and sending it to a central server)
- Session Types for Information Flow Security (client/server not accidentally leaking a secret to other party, useful in differentially private Federated Learning)
- Session Types for computational model of cryptography (bounds of communication complexity)
- Session Types for Multi-Party Computation (combining votes without leaking individual ballots)
- Session Types for Smart Contracts

Questions?