IRTF Open Meeting

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IRTF Chair

IETF 118 / 9 November 2023

Note Well – Intellectual Property

- **The IRTF follows the IETF Intellectual Property Rights (IPR) disclosure rules**

- By participating in the IRTF, you agree to follow IRTF processes and policies:

  - If you are aware that any IRTF contribution is covered by patents or patent applications that are owned or controlled by you or your sponsor, you must disclose that fact, or not participate in the discussion

  - The IRTF expects that you file such IPR disclosures in a timely manner – in a period measured in days or weeks, not months

  - The IRTF prefers that the most liberal licensing terms possible are made available for IRTF Stream documents – see RFC 5743

  - Definitive information is in RFC 5378 (Copyright) and RFC 8179 (Patents, Participation), substituting IRTF for IETF, and at https://irtf.org/policies/ipr

Note Well – Audio and Video Recordings

- The IRTF routinely makes recordings of online and in-person meetings, including audio, video and photographs, and publishes those recordings online

- If you participate in-person and choose not to wear a red "do-not-photograph" lanyard, then you consent to appear in such recordings, and if you speak at a microphone, appear on a panel, or carry out an official duty as a member of IRTF leadership then you consent to appearing in recordings of you at that time

- If you participate online, and turn on your camera and/or microphone, then you consent to appear in such recordings

- **This meeting is being recorded and live streamed**

Note Well – Privacy & Code of Conduct

- As a participant in, or attendee to, any IRTF activity you acknowledge that written, audio, video, and photographic records of meetings may be made public

- Personal information that you provide to IRTF will be handled in accordance with the Privacy Policy at https://www.ietf.org/privacy-policy/

- As a participant or attendee – whether in-person or remote, and on the mailing lists as well as during the meetings – you agree to work respectfully with other participants; please contact the ombudsteam (https://www.ietf.org/contact/ombudsteam/) if you have questions or concerns about this

- See RFC 7154 (Code of Conduct) and RFC 7776 (Anti-Harassment Procedures), which also apply to IRTF

In-Person and Remote Participation

- **In-person participants**

  - You MUST sign into the session using MeetEcho (usually the "onsite tool" client) from the Datatracker agenda **or by scanning the QR code**

  - Use MeetEcho to join the mic queue

  - Keep audio and video off if not using the onsite version
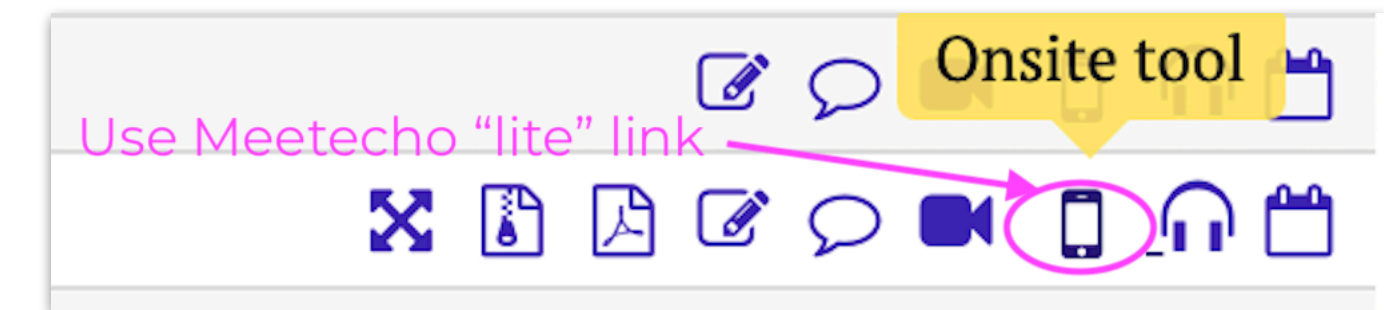
- **Remote participants**

  - Make sure your audio and video are off unless you are chairing or presenting during a session

  - Technical support: http://www.ietf.org/how/meetings/issues/

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Goals of the IRTF

- The Internet Research Task Force (IRTF) focuses on longer term research issues related to the Internet while the parallel organisation, the IETF, focuses on shorter term issues of engineering and standards making

- **The IRTF conducts research; it is not a standards development organisation**

- While the IRTF can publish informational or experimental documents in the RFC series, the primary output of research groups is expected to be understanding and research results that may be disseminated by publication in scholarly journals and conferences

Research Groups (1/2)

CFRG
Crypto Forum Research Group

COINRG
Computation in the Network

DINRG
Decentralised Internet Infrastructure

GAIA
Global Access to the Internet for All

HRPC
Human Rights Protocol Considerations

ICCRG
Internet Congestion Control

ICNRG
Information-centric Networking

MAPRG
Measurement and Analysis for Protocols

NMRG
Network Management

PANRG
Path Aware Networking

PEARG
Privacy Enhancements and Assessments

QIRG
Quantum Internet

RASPRG
Research & Analysis of Standards Processes

T2TRG
Thing-to-Thing

UFMRG
Usable Formal Methods

Not meeting

Met earlier this week

Still to meet

Research Groups (2/2)

- Welcome to Reese Enghardt and Vidhi Goel who join Simone Ferlin as ICCRG co-chairs

Reese

Vidhi

Simone

Recent IRTF Stream RFCs

RFC 9474	RSA Blind Signatures	October 2023	CFRG
RFC 9473	A Vocabulary of Path Properties	September 2023	PANRG
RFC 9382	SPAKE2, a Password-Authenticated Key Exchange	September 2023	CFRG
RFC 9381	Verifiable Random Functions (VRFs)	August 2023	CFRG
RFC 9380	Hashing to Elliptic Curves	August 2023	CFRG

- IRTF research groups can publish Informational and Experimental RFCs, but **the main focus is on developing understanding – research papers are more common outputs than RFCs**

- "To me, the fundamental outcome of research is understanding, and the fundamental outcome of engineering is a product" – Fred Baker, quoted in RFC 7418

IRTF Code of Conduct

- The IRSG has been discussing **draft-perkins-irtf-code-of-conduct** as a draft code of conduct for the IRTF

  - The IRTF doesn't currently have a code of conduct – but one is needed

  - The IETF code of conduct (RFC 7154) is focussed on effective conduct of the standards process

- Please review **draft-perkins-irtf-code-of-conduct** and send feedback to the irsg@irtf.org
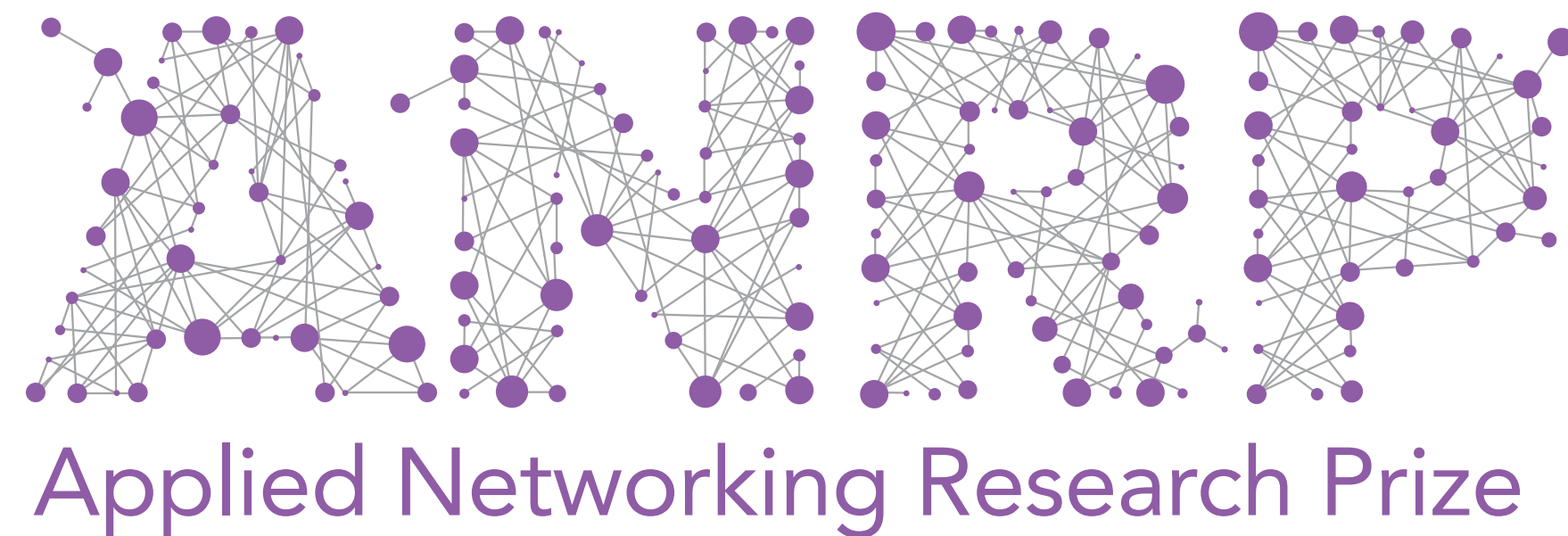
The Applied Networking Research Prize recognises:

- the best recent results in applied networking

- interesting new research ideas of potential relevance to the Internet standards community

- and upcoming people that are likely to have an impact on Internet standards and technologies
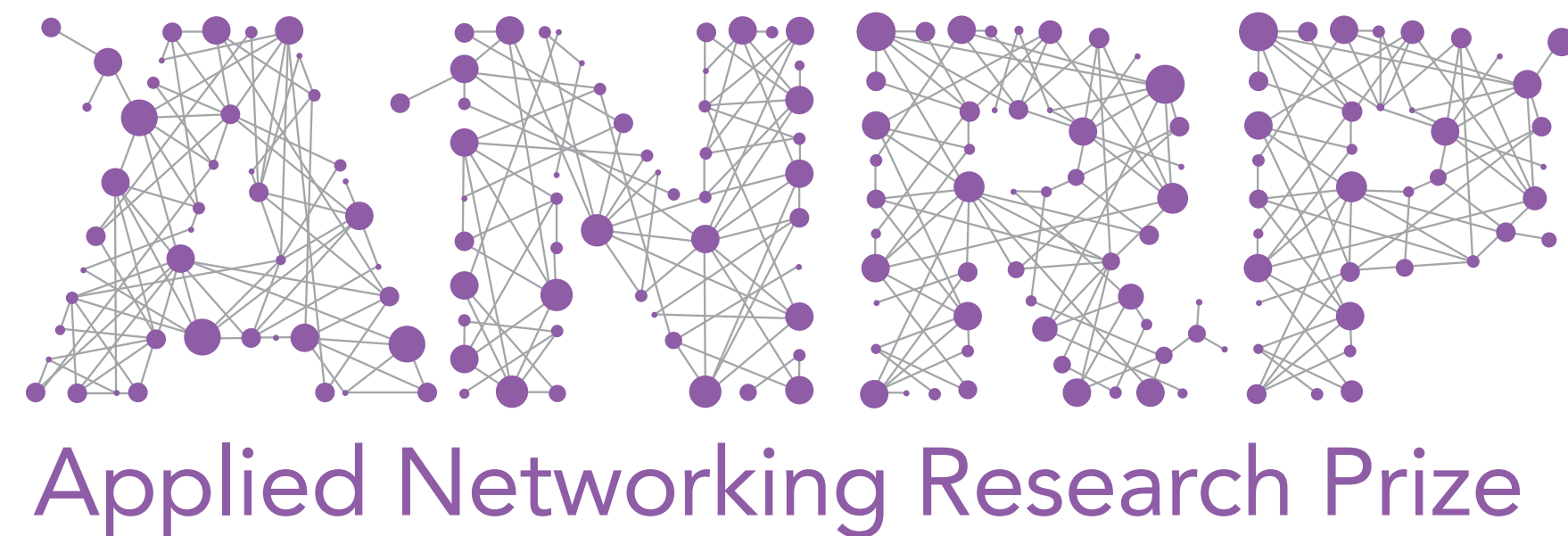
- Three ANRP award talks today:
  - **Siva Kakarla** for his work on verifying the correctness of nameservers
  - **Dennis Trautwein** for his work on content-addressable peer-to-peer storage
  - **Ramakrishnan Sundara Raman** for his work on identifying and locating in-network censorship devices
- Papers and slides at **https://irtf.org/anrp/**
- Live stream at https://www.ietf.org/live/
  - Recordings on IETF Channel on YouTube

ANRP 2024
Applied Networking Research Prize

Nomination deadline:
19 November 2023
https://irtf.org/anrp/
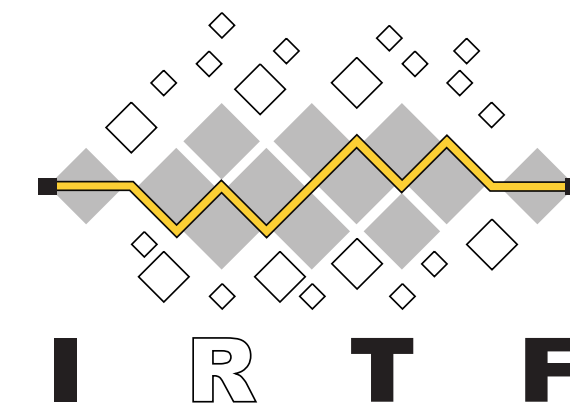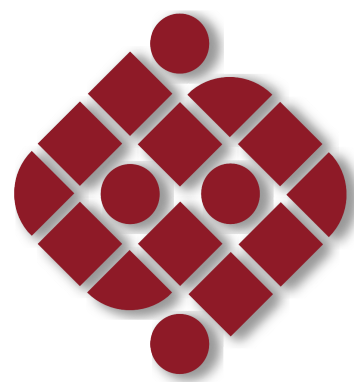
Applied Networking Research Workshop

- ACM/IRTF Applied Networking Research Workshop (ANRW) **2024** will co-locate with IETF 120 in Vancouver in July 2024

  - Organisers will be Simone Ferlin (Red Hat) and Ignacio Castro (Queen Mary University of London)

  - Expect call for papers at **https://irtf.org/anrw/2024/** in early 2024

The IRTF is pleased to offer travel grants to support early career academics and PhD students from under-represented groups to attend the IRTF meetings co-located with the IETF

We also offer travel grants to attend the ACM/IRTF Applied Networking Research Workshop and make a small number of meeting fee waivers available

https://irtf.org/travelgrants

Thank you to our sponsors – please contact the IRTF Chair if you wish to help expand these programmes

Agenda

Time	Topic	Speaker
17:00	Introduction and Status Update	Colin Perkins
17:15	SCALE: Automatically Finding RFC Compliance Bugs in DNS Nameservers	Siva Kakarla (remote)
17:40	Design and Evaluation of IPFS: A Storage Layer for the Decentralized Web	Dennis Trautwein
18:05	Network Measurement Methods for Locating and Examining Censorship Devices	Ramakrishnan Sundara Raman
18:30	Close	