IRTF Open Meeting

Colin Perkins

IRTF Chair

IETF 110 / 8 March 2021

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
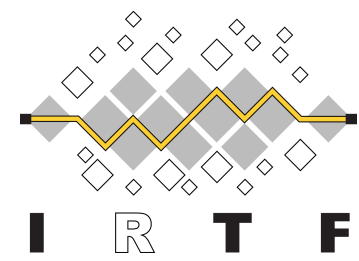
Note Well – Privacy & Code of Conduct

- 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, 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

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, its primary goal is to promote development of research collaboration and teamwork in exploring research issues related to Internet protocols, applications, architecture, and technology

- See "An IRTF Primer for IETF Participants" – RFC 7418
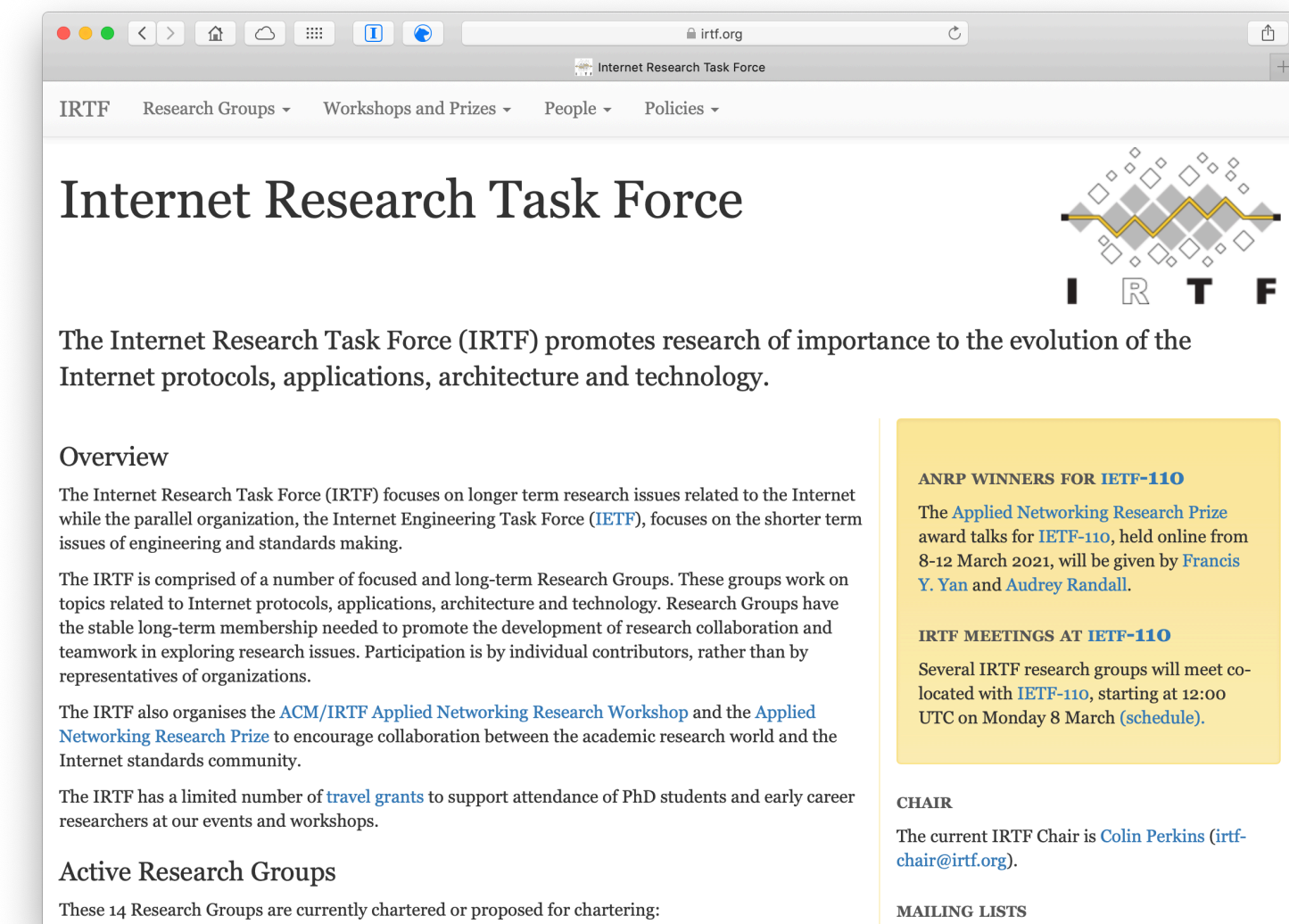
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- https://irtf.org/mailman/listinfo/irtf-announce – announcements
- https://irtf.org/mailman/listinfo/irtf-discuss – discussion

Research Groups

CFRG
Crypto Forum Research Group

COIN
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

NWCRG
Network Coding for Efficient Network Communications

PANRG
Path Aware Networking

PEARG
Privacy Enhancements and Assessments (proposed)

QIRG
Quantum Internet

T2TRG
Thing-to-Thing

Did not meet
Met earlier this week
Still to meet

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Recent IRTF Stream RFCs

RFC 8975   Network Coding for Satellite Systems   January 2021 NWCRG

Applied Networking Research Prize (1/2)

- Awarded to recognise
  - **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

  with particular focus on people or ideas that would not otherwise get much exposure or be able to participate in the discussion

- Details at **https://irtf.org/anrp/**

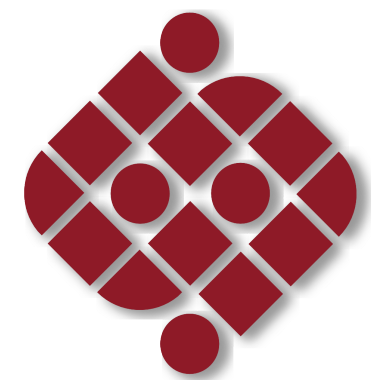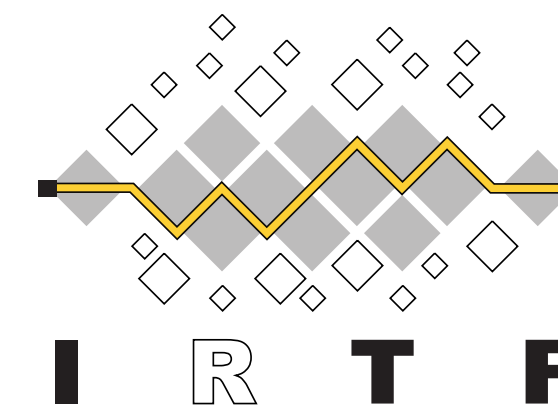# Applied Networking Research Prize (2/2)

- Two ANRP prize winning talks today:
  - **Francis Y. Yan** for his work on applying machine learning to video bit-rate adaptation
  - **Audrey Randall** for her work on DNS caching and privacy

- Details at **https://irtf.org/anrp/**

Applied Networking Research Workshop

- ACM/IRTF Applied Networking Research Workshop (ANRW) 2021 will co-locate with IETF 111 in July 2021

  - TPC chairs: Andra Lutu and Nick Feamster

  - Paper submissions due 21 April 2021

  - **https://irtf.org/anrw/2021/**

- Forum for researchers, vendors, network operators and Internet standards community to present and discuss emerging results in applied networking research

Agenda

Time (UTC)	Topic	Speaker
12:00	Introduction and Status Update	Colin Perkins
12:15	Learning in Situ: a Randomized Experiment in Video Streaming	Francis Y. Yan
13:00	Trufflehunter: Cache Snooping Rare Domains at Large Public DNS Resolvers	Audrey Randall
14:00	Close	

* Pre-recorded talks, followed by live Q&A