SSR 2020: Security Standardisation Research 2020

Virtual Conference, 30 Nov - 1 Dec 2020 (First Call for Papers)

https://ssr2020.mozilla.org/

https://easychair.org/conferences/?conf=ssr2020

About: The 6th Conference on Security Standards Research will be held virtually, on 30 Nov and 1 Dec 2020. The conference will be held over two half days to allow people around the globe to join the conference with less time zone concerns.

The purpose of this conference is to discuss the many research problems deriving from studies of existing standards, the development of revisions to existing standards, and the exploration of completely new areas of standardisation. Indeed, many security standards bodies are only beginning to address the issue of transparency, so that the process of selecting security techniques for standardisation can be seen to be as scientific and unbiased as possible.

This year, we would also like to encourage active law researchers in data protection and privacy to submit to the conference. This aligns with the presence of the GDPR in the EU. Submissions relating to regulation-related aspects of Covid-19 technologies, blockchain technology and the IoT are particularly welcomed. We would also love to see more standardisation efforts being open to interaction with academics. This follows in the footsteps of IETF's design approach for TLS 1.3, which has seen substantial academic input. Similarly, several post-quantum standardisation efforts have seen interaction between academia and industry.

This conference is intended to cover the full spectrum of research on security standardisation, including, but not restricted to, work on cryptographic techniques (including ANSI, IEEE, IETF, ISO/IEC JTC 1/SC 27, ITU-T and NIST), security management, security evaluation criteria, security policy, network security, privacy and identity management, smart cards and RFID tags, biometrics, security modules, and industry-specific security standards (e.g. those produced by the payments, telecommunications and computing industries for such things as payment protocols, mobile telephony and trusted computing).

The proceedings of SSR 2020 will be published by Springer in the Lecture Notes in Computer Science series.

An overview of the previous SSR conferences can be found at ssresearch.eu

Submission Guidelines

Papers offering research contributions to the area of security standardisation are solicited for submission to the SSR 2020 conference. SSR will also accept **Systematisation of Knowledge (SoK)** papers relating to security standardisation, which integrate experience

and previous research, drawing new comprehensive conclusions. SoK papers should evaluate, systematise, and contextualise existing knowledge. They should provide a new viewpoint, offer a comprehensive taxonomy, or cast doubt on long-held beliefs, based on compelling evidence. We also welcome SoK papers that document existing standardisation practices and analyse their weaknesses and strengths. We also encourage submission of **Vision papers** relating to security standardisation. The vision track is intended to report on work in progress or concrete ideas for work that has yet to begin. The focus in the vision track is to spark discussion with the goal to provide the authors helpful feedback, pointers to potentially related investigations, and new ideas to explore. Suitable submissions to the vision track include traditional work-in-progress pieces such as preliminary results of pre-studies, but also research proposals and position papers outlining future research.

Submissions should be made using EasyChair at:

https://easychair.org/conferences/?conf=ssr2020

Papers may present theory, applications or practical experience in the field of security standardisation, including, but not necessarily limited to:

List of Topics

access control	biometrics	cloud computing security/privacy
critical national infrastructure protection	standards consistency & comparison	critiques of standards
cryptanalysis	cryptographic protocols	cryptographic techniques
evaluation criteria	formal analysis of standards	history of standardization
identity management	industrial control systems security	internet security
interoperability of standards	intrusion detection	key management and PKIs
standardisation process management	mobile security	network security
open standards and open source	payment system security	privacy
regional and international standards	RFID tag security	risk analysis
security controls	security management	security protocols

security services	security tokens	smart cards
telecommunications security	trusted computing	web security
blockchain	internet of things security/privacy	data protection and law/regulation

Important Dates

Deadline for submissions:	24 August 2020
Notifications to authors:	1 October 2020
Camera ready due:	12 October 2020
Conference:	30 November – 1 December 2020

Committees

Program Committee

- Steve Babbage, Vodafone
- Benjamin Beurdouche, Mozilla
- Lily Chen, National Institute of Standards and Technology (NIST)
- Liqun Chen, University of Surrey
- Zhaohui Cheng, Olym Info. Sec. Inc
- Benjamin Dowling, ETH Zürich
- Felix Günther, ETH Zürich
- Feng Hao, University of Warwick
- Matt Henricksen, Huawei
- Jonathan Hoyland, Cloudflare
- Saqib A. Kakvi, Bergische Universität Wuppertal
- Mohsin Khan, University of Helsinki
- Markulf Kohlweiss, University of Edinburgh
- Wanpeng Li, University of Aberdeen
- Catherine Meadows, Naval Research Laboratory
- David Naccache, ENS Paris

- · Kenny Paterson, ETH Zürich
- · Christopher Patton, University of Florida
- · Andrew Paverd, Microsoft
- · Gaëtan Pradel, INCERT
- · Raphael Spreitzer, SGS Digital Trust Services GmbH
- · Ehsan Toreini, Newcastle University
- · Christopher Wood, Cloudflare
- · Kazuki Yoneyama, Ibaraki University

Organizing committee

·	General Chair:	Thyla van der Merwe, Mozilla, London, UK
·	PC co-chair:	Maryam Mehrnezhad, Newcastle University, UK
·	PC co-chair:	Chris Mitchell, RHUL, UK (me@chrismitchell.net)

Invited Speakers

- · TBA

Publication

SSR 2020 proceedings will be published in Springer's Lecture Notes in Computer Science (LNCS) series

Venue

Due to Covid-19, SSR 2020 will take place virtually. Participation details will be announced later.

Registration

All those wishing to participate will be required to formally register. Details of the registration process will be made available later. A token registration fee may be charged.

Contact

All questions about submissions should be emailed to a member of the organizing committee.

Sponsors

TBA