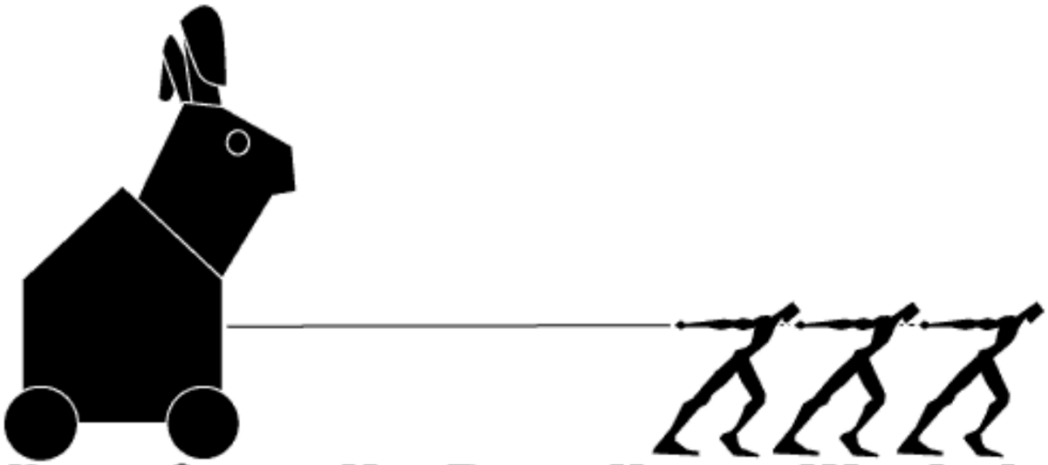

New Security Paradigms Workshop

NSPW 2022

October 24 - 27, 2022
White Mountain Hotel and Resort, North Conway, New Hampshire, USA

Sponsor:
ACSA

The Association for Computing Machinery
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General Chairs' Message[1]

As General Chair and Vice-Chair, we were thrilled to witness the long-awaited return of NSPW to its cherished in-person format after two years of remote sessions. The palpable energy and profound connections forged during this year's event served as a reminder of the true value that NSPW holds—the convergence of speculative yet well-referenced ideas nurtured by personal connections, resulting in profound insights within the ever-growing realm of information security.

This year, the conference theme centered around resilience and resistance, aptly reflecting the challenges faced by a community emerging from the grips of a global lockdown. The submissions we received were brimming with novel and captivating ideas, which, thanks to the diligent efforts of the Program Committee (PC), blossomed into something truly exceptional to be presented at the beautiful White Mountain Resort. It was evident how the influence of big data and the increasing prominence of generative AI permeated the thematic landscape of the papers. Additionally, the growing socio-technological impact of cybersecurity across our personal and professional lives underscored the interdisciplinarity of the field. The convergence of previously disparate fields such as law and sociology further emphasized the embedded nature of cybersecurity within our society, fueling the need for ongoing research and exploration.

We extend our heartfelt gratitude to all the authors, reviewers, organizers, and session chairs who played integral roles in making our return to an in-person NSPW such a resounding success. Your collective efforts exemplified the spirit of creativity and collaboration, contributing to our shared goal of bolstering confidence in cybersecurity well into the future. We would also like to acknowledge the invaluable contributions of our esteemed long-term members on the steering committee, who continue to navigate the ever-changing cybersecurity landscape and keep NSPW at the forefront of cutting-edge conferences and gatherings.

As we reflect on the success of this year's event, our hearts brim with anticipation for the future of NSPW and the myriad of paths it will lead us down. The collective enthusiasm, ingenuity, and unwavering dedication demonstrated by the NSPW community give us great confidence in the bright and transformative journey that lies ahead.

With deep appreciation,

Tom Longstaff and Abe Singer
General Chair and Vice-Chair

[1] Edited by ChatGPT 4.0

PC Chairs' Message

The New Security Paradigms Workshop aims to provide a home for works that challenge conventional wisdom and working models in the field of information and computer security. Since 1992, NSPW has accepted papers on a wide variety of topics. These papers have pushed boundaries and provided speculation and reflection as well as contributed new knowledge in all areas of computer security.

This year we received 22 paper submissions and accepted 10 papers from a diverse range of academic disciplines. Five distinct subfields of computer and information security were represented by the accepted papers. The range of NSPW paper topics spans studies in compliance and regulation, capability design frameworks, hardware and embedded device security, innovations in access control and authentication, and the roles regret plays in cyber security decision making.

Encouraging this wide diversity requires work and effort from a committed group of authors, program committee members, and organizing committee members. We would like to thank all authors, reviewers, members of the NSPW committees for their contribution. Without this participation NSPW would not be possible. NSPW asks more engagement from its authors than many conferences, and we would particularly like to thank the authors of accepted papers for their dedicated engagement with the shepherding and revision processes.

As always, the Program Committee assisted us in assembling this year's program. We had 20 program committee members again this year who come from both a wide range of academic disciplines spanning the social and mathematical sciences and from computer security practice. Each brought their expertise on a wide variety of security topics to the review process and ensured that each paper was discussed from all relevant perspectives. Each PC member reviewed between two and three submissions. Half of the committee also acted as shepherds of conditionally accepted papers. Their enthusiastic engagement with the submissions and "workshop" process characterizes much of the in-depth and thoughtful engagement that NSPW is known for.

A rich and innovative program deserves sufficient time and place to discuss it and this year we were delighted to resume hosting an in-person conference. We would like to thank the general chairs and other members of the organizing committee as well as the venue staff for creating such a wonderful conference space at the White Mountain Hotel and Resort in North Conway, New Hampshire USA. Following NSPW practice, each paper was workshopped in an interactive 60-minute time slot. The level of participation with papers this year was rich and rewarding, as we have come to expect from NSPW. The paper authors benefited from the detailed feedback from the sessions as well as from the informal social interactions that take place in and around an in-person conference.

We are pleased to present the results of all this work in our 2022 program.

Lizzie Coles-Kemp and Tristan Caulfield, PC co-chairs

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