

## Security Lancaster Newsletter February 2021

### Meet a Colleague



#### Professor Tracy Hall

Tracy's long term research focus is on faults in software. For many years she has investigated how faults in code can be identified, predicted and removed. She has also looked at the human factors behind the mistakes that software developers make that result in code faults. Her current focus is identifying coding structures that represent vulnerabilities in software, and the defensive coding practices needed to prevent such code vulnerabilities. Her current research ambition is to be able to automatically generate code to patch vulnerable code. Tracy has long term collaborations with a number of UK companies. Her work has resulted in the development of a variety of tools for professional developers. She has been awarded a series of EPSRC grants to support her work in this area and has published widely. Tracy is currently Professor of Software Engineering and Deputy HoS in the School of Computing and Communications. She leads the Software Engineering Group Research Group at Lancaster (SE@L).

### Joint Committee on National Security Strategy

Our submission to the Biosecurity inquiry was recognised in its published report – we got 4 mentions, primarily around the antivax issue. We will pick up this strand of work in Security Lancaster in 2021.

To access the full report click [here](#).



### Recent Publications

[Specifying and Verifying Usage Control Models and Policies in TLA+](#)

Christos Grompanopoulos – Antonios Gouglidis – Anastasia Mavridou

["Talking a different language": Anticipating adversary attack cost for cyber risk assessment](#)

Richard Derbyshire – Benjamin Green – David Hutchinson

### News

#### **SL News**

[Lancaster University recognised for excellence in Cyber Security education](#)

[ACEd it!](#)

## **External News**

[Healthcare Industry Witnessed 45% Spike in Cyber Attacks Since November 2020](#)

[Microsoft Issues Patches for Defender Zero-Day and 82 Other Windows Flaws](#)

## **Call for Mini Projects**

As in the past years, SL is delighted to be able to sponsor mini-projects! These are designed to provide seed funding to build bigger multi-disciplinary, multi-department collaborative projects for research and proposals. We especially encourage early career faculty to make use of this opportunity.

Full details can be found [here](#).

## **Seminar Series**

[12th February from 2-3pm - Philip Koopman - Carnegie Mellon University - 'Automated Vehicle Safety Overview for 2021'](#).

The full SL seminar calendar is available [here](#). As the current seminars are presented via Teams, please feel free to disseminate internally and externally. We look forward to your active participation in the seminars - including your suggestions for future invitees.

### **Beyond Cyber Security**

Cyber Works enables effective, impactful, and innovative opportunities for knowledge exchange between businesses and the Cyber Security Research Centre (CSRC). Through its UEZ (University Enterprise Zone) status, Cyber Works is delivering a series of thought-provoking webinars, designed to help businesses navigate through the future of digitalisation, cyber security, and innovation.

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### **Lancaster University**

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