

Security Lancaster Newsletter April 2021

Outstanding Security Research Award

Security Lancaster is pleased to announce the first annual outstanding Security Research Award. The award is for students undertaking a security and protection science-focused, individual project as part of their studies. This work could be multidisciplinary or in a single discipline but should demonstrate excellence and originality in the identified field.

The award is open to Undergraduate, Master's Degree, and PhD students fulfilling the entry criteria. It would be expected the research work would be a substantial element in their degree award. At undergraduate or Master's degree, this would be expected to be a research project or dissertation report. For PhD students, this could be the thesis or some other significant individual project completed as part of the overall work (suitable peer-reviewed evidence needs to be provided).

Submissions are made on behalf of the student by a sponsoring academic who will need to complete an online form for submission. The submissions will be scored by an expert panel, and the finalists will then be required to do a 15-minute presentation which will be recorded. There will be a winner from each degree category who will receive a £250 amazon voucher, and a signed certificate by Professor Neeraj Suri & Professor Corinne May-Chahal. Second place students will be awarded a letter of commendation. For more information click [here](#).

Deadlines:

- **Undergraduate deadline: 28th June**
- **Postgraduate deadline: 1st November**
- **PhD deadline: 1st November**

Meet a Colleague



Dr Antonios Gouglidis

Antonios Gouglidis is a Lecturer at the School of Computing and Communications (SCC) at Lancaster University. He is a member of the Systems Security Group at SCC and the Research Lead for the Security Institute's stream on '*Distributed Systems*'. Antonios's research is about the design of secure models and systems, with main application domains being that of access control (models and policies) and Cloud systems. He is also interested in security by design approaches, where he investigates the application of formal methods for the specification of complex system properties and their verification using automated techniques. Over the past few years, Antonios has a collaboration with NIST's Computer Security Division in the USA, where he contributes to various research areas. These include the application of model checking to verify role-based

and attribute-based access control models/policies and Cloud security. Specifically, his work on the verification of multi-policies has been quoted by NIST in SP 800-192 '*Verification and Test Methods for Access Control Policies/Models*'. He is also the co-author of a recently published NIST Special Publication (NIST SP 800-210), where he contributed to the preparation of a general access control guidance for the Infrastructure-as-a-Service, Platform-as-a-Service and Software-as-a-Service delivery models; furthermore, he defined an access control guidance for inter-domain and intra-domain operations for Cloud systems. Antonios took up his lectureship position at Lancaster in 2018. His profile can be found [here](#).

Recent Publications and Accepted Papers

[Fast Kernel Error Propagation Analysis in Virtualized Environments](#)

Nicolas Coppik - Oliver Schwahn - Neeraj Suri

[A Passion for Security: Intervening to Help Software Developers](#)

Charles Weir - Ingolf Becker - Lynne Blair

[A Categorization of Policy Conflicts in Distributed Systems and Network Management](#)

Antonios Gouglidis - Vasileios Giotsas - Sarandis Mitropoulos

[A Security Cost Modelling Framework for Cyber-Physical Systems](#)

Igor Ivkic - Patrizia Sailer - Antonios Gouglidis - Andreas Mauthe - Markus Tauber

[Analysing Design Approaches for the Power Consumption in Cyber-Physical Systems](#)

Patrizia Sailer - Igor Ivkic - Markus Tauber - Andreas Mauthe - Antonios Gouglidis

[Network-aware Recommendations in the Wild: Methodology, Realistic Evaluations, Experiments](#)

Savvas Kastanakis - Pavlos Sermpezis - Vasileios Kotronis - Daniel Sadoc Menasche - Thrasylvoulos Spyropoulos -

News

[EPSRC TAS-S: Trustworthy Autonomous Systems Node in Security](#)

We warmly welcome [Pam Forster](#) who recently took up the position of Project Manager for the TAS-S project. Some of you may already know Pam from her former role as Faculty Impact Officer and she has also previously managed two Horizon 2020 projects in the faculty.

We will be holding the first stakeholder workshop on Monday 29th March. This gives our stakeholders from across Lancaster, Cranfield and a wide range of industries the opportunity to find out more about the project and all the different partners involved.

[Mini Projects](#)

Security Lancaster provides seed funding for interesting inter-disciplinary collaborations, development of grant applications or engagement in impact generation activities.

The scheme is open to all members of Security Lancaster as well as those who wish to engage with Security Lancaster and become part of a community of 100 researchers across the University.

Applications will be accepted until the end of April and if you have any queries, please contact [Jennifer McCulloch](#).

[Call for Proposals](#)

[UKRI Trustworthy Autonomous Systems programme: responsibility](#)

UKRI has an open call due May 21 for grants ranging from £400,000 - £700,000. This is a great opportunity and we are happy to add support for any interested applicants.

[MSc Cyber Security Renewal](#)

The NCSC have notified us that we have been successful in our renewal of the certification for our [masters of cyber security](#).

This is really excellent news and confirms the quality and standing of this programme.

[Research Excellence Framework](#)

We are delighted to report that Lancaster University's submission to the Research Excellence Framework (REF2021) was made on Tuesday, 23rd March. The REF is the system for assessing the quality of research in UK higher education institutions and we expect the results in April 2022. Huge thanks to everyone involved!

Seminar Series

[Adam Joinson](#) from the University of Bath will be delivering the next SL seminar on Friday 23rd April from 2pm to 3pm - more details coming soon!

[Professor Shanchieh Yang](#) from the Rochester Institute of Technology will be delivering a seminar on Friday 28th May from 2pm to 3pm - more details coming soon!

[Become a member of Security Lancaster](#)

Lancaster University

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