



**Research Institute in Trustworthy
Interconnected Cyber-physical Systems**

Quarterly Update

Calls update

NIS Directive

The first call from the second phase of RITICS closed on 8 June 2018. Six applications were received, and these were assessed at a panel meeting held at the [National Cyber Security Centre](#) (NCSC) on 20 July 2018, by the RITICS Advisory Board. The aim was to fund at least two of these proposals. Award announcements will take place shortly. The theme of the call is the impact of the [Network and Information Security Directive](#).

The grant proposals are of up to £500,000 in value, with a duration of 2 years. The funding is being provided by NCSC and the funding and contract will be under the NCSC's standard terms and conditions. 100% of the Full Economic Cost of the project will be funded.

Research Challenges call

A new call for proposals from the RITICS programme was launched on 29 June 2018. The NCSC in collaboration with RITICS is inviting proposals from academic researchers into relevant research challenges. Each project can gain funding of up to £400,000 over 16 months. The deadline for receipt of proposals is 31 August 2018, at 4pm. Applicants should be based in institutions eligible for EPSRC funding. The main topics for research involve a series of challenges encompassing safety and security, autonomous systems, incident response and forensics, cyber controls and supply chain.

Research and funding news

Industrial Control System Security is GREAT in Hong Kong

In March, members of the team from the Cyber Technology Institute supported De Montfort University's participation in the [GREAT Festival of Innovation](#) in Hong Kong. Professor Helge Janicke and Dr Richard Smith exhibited their new ICS demonstrator to visitors attending the Department of International Trade's showcase.



In this photograph, Professor Helge Janicke explains the vulnerabilities in many of the systems which control critical national infrastructure facilities, such as water treatment plants – to the Secretary of State for International Trade, Liam Fox MP.

CTI collaborates with Airbus as part of major security conference in US

In April, Dr Richard Smith was part of a team alongside Airbus running an ICS Capture the Flag competition as part of the [ICSVillage](#) at RSA in San Francisco. RSA is one of the most significant international information security conferences of the year and this was another important, academic-industry collaboration between the CTI and Airbus.



Success in Innovate UK's Cyber Security Academic Start-Up Programme

Since February, Dr Ying He and Dr Iryna Yevseyeva have been involved in Innovate UK's Cyber Security Academic Start-Up Programme. This programme is funding innovative academic cyber security ideas to support the development of potential commercial opportunities. After a successful pitch of their product, **ACTIVE** (Adaptive **Cyber Threat Intelligence** for Cyber Security **InVEstment** Optimisation) at the KTN Showcase Day at InfoSec, the CTI team have now progressed to the third round of funding.



White papers on Open Source Tool-Sets and Open Testbeds

Two white papers have been published this year by Chris Hankin, Director of RITICS, and members of the RITICS network.

The first is entitled: [“Availability of Open Source Tool-Sets for CNI-ICS2”](#), and the authors are Chris, Tom Chothia of the University of Birmingham, Peter M3 of the NCSC, Peter Popov of City University, Awais Rashid of Lancaster University and the University of Bristol, and Sakir Sezer of Queen’s University Belfast.

The second white paper is entitled: [“Open Testbeds for CNI”](#), and the authors are Chris Hankin and Deepth Chana of Imperial College, Ben Green of Lancaster University, Rafiullah Khan of Queen’s University Belfast, Peter M3 of the NCSC, Peter Popov of City University, Awais Rashid of Lancaster University of University of Bristol, and Sakir Sezer of Queen’s University Belfast.

Announcements

We are delighted to welcome Dr Prabhat Sakya to the team. He is the new RITICS Programme Manager, and started work with us on 2 July 2018. He will work with us full-time for the duration of the RITICS programme, until the end of 2022. He joins us from a role as Research and Impact Manager at the London School of Economics.

If you have any queries about the RITICS programme, have any research funding ideas or questions, or would like to contribute to the RITICS newsletter, please contact him on p.sakya@imperial.ac.uk.

Forthcoming events and competitions

28-30 August 2018 – Titanic Belfast

Belfast – Northern Ireland – UK

The Annual International Conference in Privacy, Security & Trust (PST) provides a premier forum for sharing advances in cybersecurity research and security applications addressing emerging trends in cyber threats, cybersecurity technologies and research. The PST2018 Industrial Day will provide a platform for industry and academia to showcase emerging cybersecurity technology, research demonstrators, vendor exhibition, and opportunities for Industry-to-Industry and Industry-to-Academia engagements and knowledge sharing. PST2018 will be held in Northern Ireland at the Titanic Belfast in the Titanic Quarter.

Day 1, 28 August 2018: The **Industrial Day** will be comprised of keynotes, panel discussions and showcases/exhibitions given by industry. Academia is invited to showcase research in the form of demonstrators and posters.

Day 2, 29 August 2018: The **First Conference Day** will be comprised of keynotes and technical sessions on Privacy, Security and Trust. The Conference Banquet will be held on the evening of the first conference day at Belfast City Hall.

Day 3, 30 August 2018: The **Second Conference Day** will be comprised of keynotes and technical sessions on Privacy, Security and Trust. Poster sessions will be during coffee and lunch breaks.

[ICS-CSR Conference](#)

29-30 August 2018 – University of Hamburg

The 5th International Symposium for ICS & SCADA Cyber Security Research, jointly organised by De Montfort University and Airbus, will this year be hosted by the University of Hamburg.

This conference brings together researchers with an interest in the security of industrial control systems in the light of their increasing exposure to cyber-space.

The topics are broad, ranging from security for hardware/firmware used in industrial control systems, to system aspects of ICS such as secure architectures and vulnerability screening to the human aspects of cyber security such as behaviour modelling and training.

To register for this event, please visit: <http://www.ics-csr.com/>

[IAAC Annual Symposium](#)

14 September – BT Centre, London , EC1A 7AJ

The Information Assurance Advisory Council (IAAC) has extended an invitation to techUK members to participate in its annual symposium to be held on Friday, 14 September 2018 at the BT Centre, London, EC1A 7AJ. The theme of the day is Digital Resilience - for individuals, communities, organisations and society. IAAC has offered a 20% discount on their commercial rate by applying the code PROFBODY at the Eventbrite link below. This means the rate you pay is £80 plus VAT. A £50 rate is available for academic and government members.

Speakers confirmed include:

Robert Hall, Executive Director, Resilience First; Carolyn Bunting, CEO, Internet Matters; Martin Howelett, Director Youth Federation; and IAAC Ambassador in the North West; Mike St John Green, Independent Consultant on critical infrastructure and cyber security; Shavana Musa, International law and security, Manchester University; and founder Ontogeny Global DCMS speaker confirmed.

Lord Arbuthnot of Edrom, Chairman IAAC

To register, please click here.

<https://www.eventbrite.co.uk/e/iaac-symposium-2018-digital-resilience-for-individuals-communities-organisations-and-society-tickets-37724289365%C2%A0>

RITICS Showcase

18 October 2018 – NCSC

Victoria Street – London – UK

Programme to be published next month.

Get in touch!

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www.ritics.org

