RESEARCH INSTITUTE FOR SECURE HARDWARE & EMBEDDED SYSTEMS

RISE First Annual Conference

Press Room, Nova South, London

Wednesday 14th November 2018

Time	Topic
09:30 – 10:00	**Registration – Tea/Coffee**
10:00 - 10:10	**Welcome** *Prof. Máire O'Neill, Director, RISE, Queen's University Belfast*
10:10 – 11:00	**Keynote:** *Jo Van Bulck, KU Leuven* Leaky processors and the RISE of hardware-based trusted computing
11:00 – 11:45 **RISE Core Project Updates**	*Theo Markettos, University of Cambridge* IOSEC: Protection and Memory Safety for Input/Output Security *Dan Page*, *University of Bristol* SCARV: A Side-Channel Hardened RISC-V Platform *David Oswald, University of Birmingham* User-Controlled Hardware Security Anchors: Evaluation And Designs *Máire O'Neill, Queen's University Belfast* Deep Security: Applying Deep Learning To Hardware Security
11:45 – 12:05 **Introduction to Research New Projects**	*Dirk Koch, University of Manchester* rFAS - reconfigurable FPGA Accelerator Sandboxing *Simon Moore, University of Cambridge* SafeBet | Memory capabilities to enable safe, aggressive speculation in processors *Pramod Bhatotia, University of Edinburgh* GUPT: A Hardware-Assisted Secure and Private Data Analytics Service
12:05 – 12:50 **Lightning Talks – Early Career Researchers**	*Sujoy Sinha Roy, University of Birmingham* - Hardware implementation of post-quantum PKC and homomorphic encryption *Rishad Shafik, Newcastle University* - Secure Power-Compute Co-design *Franck Courbon, University of Cambridge* - Partial hardware reverse engineering for combined attacks and authenticity verification *Vasileios Mavroudis, University College London* - Cryptographic Hardware from Untrusted Components *Jorden Whitefield, University of Surrey* - Formal Analysis and Applications of Direct Anonymous Attestation *Elif Kavun, Infineon - TBC* *Ayesha Khalid, Queens University Belfast - TBC*
12:50 – 14:10	**Lunch/ Poster Session/Networking**
14:10 – 15:00	**Keynote:** *Patrick Koeberl, Principal Engineer, Security and Privacy Research, Intel Labs* Vehicle to Cloud: Security Research Challenges for Intelligent Vehicles

15:00 – 15:45	**Industry Panel Session:** Future Research & Innovation Challenges in Hardware Security **Chair:** Charles Brookson **Panel** • Ilhan Gurel, Expert, HW and SW Security, *Ericsson* • Alex van Someren, *Amadeus* • Madeline Cheah , Cyber Sec Innovation Lead, *Horiba-Mira* • Bob Edge, Technical Director, *Cyber 1st*
15:45	**Close**