



## Professor Awais Rashid BSc, MSc, PhD

Professor of Cyber Security

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### Summary

My research spans cyber security and software engineering. I focus on novel software modularity techniques that underpin software that is adaptable, evolvable and resilient in the face of changes and the volatile nature of user requirements and behaviours in the modern digital world. This naturally ties in with my cyber security research which focuses on developing tools and techniques that are adaptable to the constantly changing threat patterns utilised by criminals online. I am particularly interested in security of cyber-physical systems, such as, industrial control systems and Internet of Things. I am also a keen researcher of adversarial and non-adversarial behaviours pertaining to cyber security. I head the Cyber Security Group at Bristol, lead projects as part of the UK Research Institute on Trustworthy Industrial Control Systems ([RITICS](#)) and UK Research Institute on Science of Cyber Security ([RISCS](#)), co-lead the Security and Safety theme within the UK Hub on Cyber Security of Internet of Things ([PETRAS](#)) and am a member of the UK Centre for Research and Evidence on Security Threats ([CREST](#)). I also lead a major international effort on developing a Cyber Security Body of Knowledge ([CyBOK](#)) to provide much needed foundations for education and training programmes. I am also a [Fellow of the Alan Turing Institute](#). Prior to joining the University of Bristol, I was co-founder and co-director of the Security Lancaster Institute at Lancaster University.

### Memberships

#### Organisations

[Department of Computer Science](#)

#### Other sites

- [Computerscience](#)

#### Research Groups

- [Cyber Security - Core](#)

### Recent publications

- Frey, S, Rashid, A, Anthonysamy, P, Pinto-Albuquerque, M & Naqvi, SA, 2019, '[The Good, the Bad and the Ugly: A Study of Security Decisions in a Cyber-Physical Systems Game](#)'. *IEEE Transactions on Software Engineering*, vol 45., pp. 521-536
- Linden, Dvd, Hadar, I, Edwards, M & Rashid, A, 2019, '[Data, data, everywhere: quantifying software developers' privacy attitudes](#)'. in: *Proceedings of the 9th International Workshop on Socio-Technical Aspects in Security (STAST)*. Springer
- Gardiner, J, Craggs, B, Green, B & Rashid, A, 2019, '[Oops I Did it Again: Further Adventures in the Land of ICS Security Testbeds](#)'. in: *ACM Workshop on ACM Workshop on Cyber-Physical Systems Security & Privacy (CPS-SPC) : In Conjunction with the ACM Conference on Computer and Communications Security (CCS) November 11 2019, London, UK*. ACM Press / Sheridan
- Rashid, A, Gardiner, J, Green, B & Craggs, B, 2019, '[Everything is Awesome! Or is it? Cyber Security Risks in Critical Infrastructure](#)'. in: *Critical Information Infrastructures Security - 14th International Conference, CRITIS 2019, Linköping, Sweden..* Springer
- Philippou, E, Frey, S & Rashid, A, 2019, '[Contextualising and Aligning Security Metrics and Business Objectives: a GQM-based Methodology](#)'. *Computers and Security*.

- Patnaik, N, Hallett, J & Rashid, A, 2019, '[Usability Smells: An Analysis of Developers' Struggle With Crypto Libraries](#)'. in: *Proceedings of the Fifteenth Symposium on Usable Privacy and Security*. USENIX Association, pp. 245-257
- Weir, C, Blair, L, Becker, I, Sasse, A, Noble, J & Rashid, A, 2019, '[Promoting Developer Security: Creating a Lightweight Program of Assurance Techniques](#)'.
- Such, J, Ciholas, P, Rashid, A, Vidler, J & Seabrook, T, 2019, '[Basic Cyber Hygiene: Does It Work?](#)'. *Computer*, vol 52., pp. 21-31
- Lim, S, Gardiner, J, Craggs, B & Rashid, A, 2019, '[RESTful HTTPS over Zigbee: Why and how?](#)'. in: *6th International Symposium for ICS & SCADA Cyber Security Research 2019 (ICS-CSR)*. BCS, The Chartered Institute for IT
- Antrobus, R, Green, B, Frey, S & Rashid, A, 2019, '[The Forgotten I in IIoT: A Vulnerability Scanner for Industrial Internet of Things](#)'.

[View complete publications list](#) in the University of Bristol publications system