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Cyber Security – the Downside of Digitisation

Prof. **Dieter Gollmann**, Professor for Security in Distributed Applications, Hamburg University of Technology

Date: Thursday 23 May 2019, 18:00

Location: HAW Hamburg Berliner Tor 5, (Neubau), Hörsaal 01.13

Lecture followed by discussion
No registration required !
Entry free !

Some may see digitisation as the next industrial revolution, bringing new opportunities, but also new dangers. However, digitisation is already with us. Programmable connected devices with interfaces to the physical world provide a basis for a more flexible and efficient control of processes in many application domains. Programmable connected devices can have remote effects and can be remotely adjusted and updated. By the same means, remote adversaries may send specially crafted inputs to programmable connected devices to control processes according to their own objectives.

Cyber security, another fashionable term that may be little more than a new name for established concepts, deals with the flipside of digitisation. How can one defend against attacks facilitated by digitisation? This talk will look at the armouries of attackers and defenders and discuss what needs to be done to stay in control of digitised processes.

Prof. Dieter Gollmann received his Dipl.-Ing. in Engineering Mathematics (1979) and Dr.tech. (1984) from the University of Linz, Austria.

He was a Lecturer in Computer Science at Royal Holloway, University of London, and later a scientific assistant at the University of Karlsruhe, Germany. He rejoined Royal Holloway in 1990, where he was the first Course Director of the MSc in Information Security. He moved to Microsoft Research in Cambridge in 1998. In 2003, he took the chair for Security in Distributed Applications at Hamburg University of Technology. He is currently Visiting Professor at Nanyang Technological University, Singapore, and member of the Advisory Board of the Centre for Doctoral Training in Cyber-Security at Royal Holloway, University of London.

Dieter Gollmann is an editor-in-chief of the International Journal of Information Security and an editor of the IEEE Security & Privacy Magazine. His textbook on 'Computer Security' has appeared in its third edition.

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