

Prof. Dr. Andreas Aßmuth

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Prof. Dr. Andreas Aßmuth (international spelling Assmuth) is a professor of computer networks and mathematics at the Technical University of Applied Sciences Ostbayerische Technische Hochschule (OTH) Amberg-Weiden. Before he was appointed professor, Andreas served as a soldier and officer in the Federal Defence Forces of Germany (Bundeswehr) for more than 16 years. For the last years of his military career he held the position of a researcher and deputy director of the cryptanalysis division of the Bundeswehr. Prior to that, he served in several leadership or technical positions related to communication networks and information security.

Andreas has an avid interest in information security and applied cryptography. By the end of 2018, he and his research group at the OTH Amberg-Weiden completed a project funded by the Bavarian Research Foundation in which they worked on securing vehicle-internal communication and finding covert channels in so-called connected cars. By 2020, as part of a Horizon 2020 project, they will develop an authentication and trust model for autonomous driving applications. In 2019, Andreas and his team started their research on a project with a focus on security of critical infrastructures and IIoT (Industrial Internet of Things) applications which is funded by the Bavarian Ministry of Economic Affairs, Regional Development and Energy.

Andreas has served as a reviewer for several national and international security-related journals, conferences and for German authorities and their respective funding programmes. He is a member of the VDE (Verband der Elektrotechnik, Elektronik und Informationstechnik) e.V., the Institute of Electrical and Electronics Engineers (IEEE), the International Association for Cryptologic Research (IACR) and the Lions Clubs International.

In addition to his teaching and research activities at the OTH Amberg-Weiden, Andreas works in close cooperation with several Scottish colleagues. He is one of the co-organisers of an annual summer school on cybercrime at the University of Strathclyde in Glasgow, Scotland.

After contributing to several IARIA Cloud Computing conferences, Andreas was a chair for the special track “Cloud Computing: Security Challenges and Solutions” at the Tenth International Conference on Cloud Computing, GRIDs, and Virtualization. At the same conference he served as a member of the technical programme committee and he also gave a keynote presentation entitled “Risks and Challenges in Digitisation”. Andreas is a member of the steering committee of the Eleventh International Conference on Cloud Computing, GRIDs, and Virtualization and one of the organisers of the special track “Novel Cloud Approaches for Securing IoT Devices”. He plans to organise another special track on information security education at the Fourteenth International Conference on Emerging Security Information, Systems and Technologies.

Over the next few years, Andreas plans to continue to participate in the Cloud Computing and Securware IARIA conferences.