



Karl Christoph Ruland studied mathematics, computer science and physics. He received the Diploma and Dr.-degree in mathematics at the University of Bonn, Germany. After 6 year in the industry he became professor for Data Communications at the University for Applied Sciences, Aachen, Germany, in 1982 and a full professor at the University of Siegen, Germany in 1992. His research focus is the integration of cryptography based security into communications systems, preferably into real time and industrial oriented systems. He served as Co-Chair of the Security WG of the eSafety Forum (for automotive security and safety) of the EU commission and as project editor for different ISO security standards . For the last years he spezialized in security for Smart Grids and the usage of cryptography to support end-to-end-security for Smart Grid Control and Management Protocols.