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▌ Educational background

2009 ~ 2016
Ph.D. in Graduate School of Information Security, Korea University

2004 ~ 2009
B.S. in Industrial Engineering, Korea University

▌ Major careers

2016 ~ 2018 Postdoctoral Researcher in Computer and Information science, University of Pennsylvania

▌ Studies & Books

- "VoltageIDS: Low-Level Communication Characteristics for Automotive Intrusion Detection System", IEEE Trans. Information Forensics and Security, vol. 13, no. 8, pp. 2114-2129, 2018

- "Reliable Cooperative Authentication for Vehicular Networks", IEEE Trans. Intelligent Transportation Systems, vol. 19, no. 4, pp. 1065-1079, 2018

- "Identifying ECUs Using Inimitable Characteristics of Signals in Controller Area Networks", IEEE Trans. Vehicular Technology, vol. 67, no. 6, pp. 4757-4770, 2018
- "Vulnerabilities of Android OS-Based Telematics System", Wireless Personal Communications, vol. 92, no. 4, pp. 1511-1530, 2017

- "A Practical Security Architecture for In-Vehicle CAN-FD" IEEE Trans. Intelligent Transportation Systems, vol 17, no. 8, pp. 2248-2261, 2016

- "Efficient and Privacy-Preserving Metering Protocols for Smart Grid Systems", IEEE Trans. Smart Grid, vol 7, no. 3, pp. 1732-1742, 2016

- "A Practical Wireless Attack on the Connected Car and Security Protocol for In-Vehicle CAN", IEEE Trans. Intelligent Transportation Systems, vol 16, no. 2, pp. 993-1006, 2015

- "Efficient Privacy-Preserving Authentication in Wireless Mobile Networks", IEEE Trans. Mob. Comput. vol 13, no. 7 pp. 1469-1481, 2014

▌ Others

Research Topic
- Security for smart vehicles
- IoT/CPS security
- Privacy-enhancing protocols