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Lifetime Achievement Keynote



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5G SA Security Framework

ABSTRACT:

The recent advent of 5G networks is driving innovation in various fields. In 2021, it is highly expected that commercial standalone 5G will be released while opening toward a telco cloud-based application convergence network without relying on the 4G core network. Obviously, without well-designed security, such 5G innovation

cannot be successful. Accordingly, the 3GPP SA3 Working Group has standardized the standalone 5G security architecture by developing the 3GPP TS 33.501 technical specification entitled “Security architecture and procedures for 5G system”. This talk will introduce the 3GPP 5G security architecture with focus on authentication, key management, privacy protection, and network slice security, followed by discussing security issues caused by fake base stations.

Bio: Ilsun YOU

Dr. Ilsun YOU received the MS and PhD degrees in computer science from Dankook University, Seoul, Korea, in 1997 and 2002, respectively. He received the second PhD degree from Kyushu University, Japan, in 2012. From 1997 to 2004, he was at the THINmultimedia Inc., Internet Security Co., Ltd. and Hanjo Engineering Co., Ltd. as a research engineer. Now, he is a full professor at Department of Information Security Engineering, Soonchunhyang University. He has served or is currently serving as a General Chair or a Program Chair of international conferences and workshops such as WISA'19-20, MobiSec'16-19, AsiaARES'13-15, MIST'09-17, MobiWorld'08-17, and so forth. Dr. YOU is the EiC of Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA) and Journal of Internet Services and Information Security (JISIS). He is in the Editorial Board for Information Sciences (INS), Journal of Network and Computer Applications (JNCA), IEEE Access, International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), Computing and Informatics (CAI), and Journal of High Speed Networks (JHSN). Especially, he has focused on 5/6G security, security for wireless networks & mobile internet, IoT security and so forth while publishing more than 200 papers in these areas. He is a Fellow of the IET and a Senior member of the IEEE.