

Plenary Speaker

Full Name	Sanghoon Lee
Affiliation	ETRI
Presentation Title	New ICT Technology waves toward Intelligent Digital Transformation

Biography

Dr. Sanghoon Lee is currently a president of ETRI, Electronics and Telecommunications Research Institute, Daejeon, Korea. He received his B.S. degree in electrical engineering from Seoul National University in 1978, and M.S. and Ph.D. degrees in systems engineering from the University of Pennsylvania, in 1982 and 1984, respectively. From 1984, Dr. Lee was with Bell labs for seven years where his research activities were in broadband networks architecture. Dr. Lee joined Korea Telecom in 1991, to set up the network architecture and actual deployment of Broadband networks in Korea. For 22 years in KT, he served in numerous positions including, CTO, COO and the President of Global & Enterprise business group. Prior to join ETRI in 2015, Dr. Lee worked as a professor at KAIST business school for 2 years. Dr. Lee is a member of the National Academy of Engineering in Korea and is a Fellow of IEEE.

200 words abstract

The expansion of new technology into contiguous areas leads to rapid technological innovation. Hardware revolution incurred by digital technology and the birth of cyberspace created by Internet have made significant changes not only in overall industry system, but also in everyday lives. In addition, like tsunami, new waves of ICT, represented by IoT, Big data, Artificial Intelligence, and Block chain technology, have been flood into our social and economic system causing revolutionary transitions. The series of these changes can be defined as Intelligent Digital Transformation (IDX), which is the process that digital DNA of ICT technologies integrates into traditional DNA of all industries. The wave of IDX comes along with the advent of hyper-augmented world through hyper-connectivity, super-intelligence, and ultra-reality, transforming our physical planet into digital planet with interactive ecosystem. In this presentation, we will discuss detail the nature of IDX and technologies from bandwidth to networking architecture, along with the resulting changes throughout the society including economy, and desirable direction of upcoming hyper-connective society.