

Title:

Overview of Non-Terrestrial Network Utilization in 6G

Speaker:

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Abstract:

In the fifth generation mobile communications system (5G) standard, the use of non-terrestrial networks (NTNs) using low earth orbit satellites and high altitude platforms are specified. Currently, various satellite and unmanned aerial vehicle (UAV)-based systems are being developed. For the sixth generation (6G), systems that take advantage of the wide-area connectivity, stability, and economic efficiency of NTNs will continue to be developed.

In this background, this presentation will introduce the overview of system configuration and technologies that will be used for space network communications in 5G and 6G.

Biography:

Eiji Okamoto received the B.E., M.S., and Ph.D. degrees in Electrical Engineering from Kyoto University in 1993, 1995, and 2003, respectively. In 1995 he joined the Communications Research Laboratory (CRL), Japan. Currently, he is an associate professor at Nagoya Institute of Technology. His current research interests are in the areas of wireless technologies, mobile communication systems, wireless security, and satellite communications. He is a fellow of IEICE.