

CV of Dr. Yutaka Miyake

Japan Candidate for Vice-Chairman of ITU-T Study Group 17

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Dr. Yutaka Miyake began participating in ITU-T SG 17 in 2005 and has been actively contributing to its activities as an information security expert. From 2009 to 2016, he served as an Associate Rapporteur of Question 6/17 “Security aspects of ubiquitous telecommunication services.” During this period, he also served as an acting Rapporteur of Question 6/17 and as an acting chairman of Working Party 4/17 “Application security” in several meetings.



He has contributed to develop new study areas for ITU-T Recommendations and Supplements regarding security. He made the first proposal for a new work item of P2P (Peer-to-peer) communication security at ITU-T SG17, and became an editor of Recommendation ITU-T X.1161 “Framework for secure peer-to-peer communication.” After the publication of this Recommendation, other three Recommendations regarding P2P communication security were published owing to his contribution to complete these documents. He was also an editor for one of these Recommendations, and it was published as Recommendation ITU-T X.1164 “Use of service providers' user authentication infrastructure to implement public key infrastructure for peer-to-peer networks.” He also contributed to ITU-T X Supplement 6 “ITU-T X.1240 series – Supplement on countering spam and associated threats” and ITU-T X Supplement 24 “ITU-T X.1120-X.1139 series - Supplement on a secure application distribution framework for communication devices.” These supplements reflect collaborative actions between the Japanese government and network operators, and its actions include countermeasures to spam messages and SPI (Smartphone Privacy Initiative).

In ITU-T SG17 meetings, he has been an Associate Rapporteur of Question 6/17 “Security aspects of ubiquitous telecommunication services” and chaired several meetings as the acting Rapporteur of Question 6/17 and the acting Working Party 4/17 chairman. Question 6/17 is responsible for security of ubiquitous sensor networks, IoT (Internet of Things), M2M (Machine to Machine), ITS (Intelligent Transportation Systems), home network, smart grid, mobile network, IPTV network. He has proposed new tasks that should be discussed at Question 6/17, and has taken leadership in the technical discussions of work items and managed the meetings as the acting Rapporteur. Currently, Question 6/17 becomes one of the most active questions in ITU-T SG17, and has published many Recommendations. It now has a lot of liaisonship with other SGs and standardization organizations.

He received his B.E. and M.E. degrees of Electrical Engineering from Keio University, Japan, in 1988 and 1990, respectively. He joined KDD (now KDDI) in 1990, and has been engaged in the research on high-speed communication protocol and secure communication system at the KDD R&D Laboratories and KDDI R&D Laboratories Inc.

He is currently a senior manager of Technology Strategy Department in KDDI Corporation, and is also a senior manager of Information Security Development Group in KDDI R&D Laboratories Inc. He is an expert in network and information security technologies, and published more than 30 journal papers in relevant technical areas. He received his PhD degree in engineering from the University of Electro-Communications, Japan, in 2009. He has been a committee chair of Information and Communication System Security (ICSS) of the Institute of Electronics, Information and Communication Engineers (IEICE), Japan since 2015. Regarding standardization activities, he has been participating in standardization activities such as ISO/IEC JTC1 SC6, IEEE 802, ITU-T SG17, oneM2M, etc. He has been a committee chair of TTC (The Telecommunication Technology Committee) Security Working Group since 2011. He has been a part-time instructor of Keio University since 2015, and a visiting professor of Shizuoka University since 2016. He is a member of the IPSJ and IEICE, which are academic societies in Japan.

He received IPSJ Convention Award in 1995 for his technical paper on high speed communication mechanism. He received Meritorious Award on Radio of ARIB (The Association of Radio Industries and Businesses) in 2003 for his contribution to the development of satellite communication accelerator for Internet access. He invented an acceleration mechanism used in this development, and the mechanism was included in Recommendation ITU-R S.1711 (Performance enhancements of transmission control protocol over satellite networks). He received Encouragement Award from the ITU Association of Japan in 2009 and TTC Award in 2014 respectively for his significant contributions to the activities of ITU-T SG17.
