CV of Dr. Satoshi MIYAJI
Candidate for Chairmanship of ITU-T Study Group 9

Highlights

- He has a long history of participating in the ITU-T SG9 (“broadband cable and TV”) almost for twenty (20) years as a technology expert of broadcasting and telecommunications particularly for cable television networks. He has been also serving as Vice Chairman of SG9 and Chairman of WP1/9 for eight (8) years since 2008, and exhibited extraordinary leadership by actively managing the SG9 resulting in expansion of the study areas of SG9 and the increased number of the countries having attended the SG9 meetings.
- He highly contributed to enhancement of the SG9 activities not only by active development of the cutting-edge cable television technologies such as development of Recommendations related to the first IP video delivery technology (J.120) in ITU or the specification of application execution-enabled cable television set-top box (J.295 and J.296) but also by always paying attention to business aspects particularly on smooth deployment of the cable television technologies to developing countries. Cable television is a very suitable system that is able to efficiently provide converged services of broadcasting and broadband over widely deployed coaxial cable-based networks not only for single dwelling unit (SDU) houses but also for multi dwelling unit (MDU) buildings. Through his active involvement in SG9, SG9 is currently one of the important study areas in ITU-T as the number of the countries attending the SG9 meetings increased for the recent eight (8) years.
- As a management position of SG9, he always contemplates improvement of the organization. He proposed and conducted two new organizational matters, i.e., establishment Working Parties in SG9 in 2009 and set up a new Focus Group in 2012.
- In 2012, he proposed a new Focus Group to enhance the study activities of SG9, which was named as “Focus Group on Smart Cable Television (FG SmartCable).” This is the first Focus

Group under the umbrella of SG9 ever before, and he successfully concluded this new Focus Group by serving as Vice-Chair. The deliverable comprises the 130-page technical descriptions related to the next generation cable television services including home energy management, healthcare services, multi-device services, harmonization of broadcasting and broadband, etc.

- In 2009, he proposed to establish the Working Party structure in SG9 as many other SGs did. Before that, there were Working Groups consisting of a group of Questions defined by the previous management team of SG9. However, Working Group was very unique SG9's management method and it could not be easily understood by other Study Groups or a whole ITU. To improve the situation, he conducted the reform of the SG9 structure.
- He has significant knowledge and experiences of ITU-T through his participation in a number of ITU-T meetings including WTSA meetings, Study Group meetings, Working Party meetings, Focus Group meetings, etc.
- His expertise includes not only standardization activities but also managerial roles for KDDI's commercial business of content delivery services such as video on demand and music distribution over Internet. He is currently Director of Media Planning Department of KDDI Corporation, and is responsible for content delivery business generating more than 150M USD annual revenue, and manages a section consisting of more than seventy (70) employees.

Career and involvement in ITU-T

Dr. Satoshi Miyaji is currently serving as Director of Media Planning Department of KDDI Corporation since 2015. He is responsible for content delivery business of video on demand and music streaming over multiple types of networks including mobile LTE, Wi-Fi, fibre to the home (FTTH) as well as cable television networks. The current his business is generating more than 150M USD annual revenue, and he manages a section consisting of more than seventy (70) employees.

From 2008 to 2014, he had been working for the cable television business-related department of KDDI Corporation. He conducted the development of the novel content delivery platform for multi-networks and multi-devices taking advantage of the convergence of cable television networks and broadband mobile networks. He also conducted the commercial development of an advanced cable television set-top box (STB) based on Android OS, and the technical specification was standardized as J.295 and J.296 in SG9.

At WTSA-08, he has been appointed as a Vice Chair of SG 9. At the beginning of the study period 2009-2012, he conducted the establishment of the Working Parties in SG9, and he was appointed as Chairman of WP1/9. At the same time, he set up a new Question (Q14/9) in SG9 to deal with issues on SG management, liaison statements and coordination with other SGs or SDOs related to SG9 as a whole. He has been significantly contributing to management and operations of SG9 for the study

period 2009-2012 and 2013-2016.

In addition to his contiguous important role of SG9 management, he significantly contributed to establishment of Focus Group on Smart Cable Television (FG SmartCable) in 2012, which successfully developed a significant deliverable of 130 pages and provided a number of new work items to SG9.

In the study period 2005-2008, he developed Recommendation J.388 “Real-time transmission of audio and video signals over IP networks,” and completed a series of material transmission over IP networks J.284 “Requirements and framework for electronic content material gathering over IP networks” and J.285 “Architecture for synchronized program transfer with pull operation over IP networks.” He was also comprehensively involved as editor in the work for set-top box Recommendations (J.290 series), home networking (J.190) and digital video program splicing (J.286).

In 2006 he started to participate actively in ITU-T activities on IPTV, Focus Group IPTV and IPTV-GSI. He was a key contributor to the work of development of IPTV terminal devices and middleware.

In 2000, he was appointed as a Rapporteur for Q11/9, and played a leading role in standardizing the first webcasting Recommendation J.120 “Distribution of sound and television programs over the IP network.” During the subsequent study period of 2001-2004, he produced a series of the webcasting Recommendations:

- J.121 “Quality control protocol for webcasting,”
- J.123 “Multiplexing format for webcasting on the TCP/IP network,”
- J.124 “Multiplexing format for multimedia webcasting over TCP/IP networks”
- J.127 “Transmission protocol for multimedia webcasting over TCP/IP networks.”

He began participating in ITU-T SG9 in 1998 and was appointed as an associate Rapporteur for Q.31/9 on webcasting.

Dr. Miyaji joined KDD (Kokusai Denshin Denwa Co., Ltd., currently KDDI Corporation) in 1995. He had worked in the Research and Development Laboratories of KDDI for thirteen (13) years from 1995 to 2008. As an expert in digital video coding and video transmission over IP networks, he developed a variety of innovative technologies on video transmission particularly over IP networks, and holds more than thirty patents in this research area. His research work includes very low bit-rate video encoding technology, objective video quality evaluation system, real-time video transmission method over wireless IP networks, efficient video transcoding algorithm, advanced applications for STB, among others. The results of his research activities have also been incorporated in KDDI’s

commercial services, e.g. video authoring system for a mobile video distribution service, video encoding SDK, and video real-time communication SDK.

Awards

Dr. Miyaji received Accomplishment Award in 2013 and Encouragement Award in 2006, respectively, from the ITU Association of Japan for his significant contributions to the activities relating to ITU-T SG9.

Educational background

Dr. Miyaji was born in Tokyo, Japan in 1970. He received his B.S. and M.S. degrees in electronics and communications engineering from Waseda University, Tokyo, Japan in 1993 and 1995, respectively. He received his Ph.D. degree from the Tokyo Institute of Technology in 2006 in his study of video transmission over IP networks.