

## Bio: Masayuki Izutsu

Masayuki Izutsu is the new director of the Japan Society for the Promotion of Science (JSPS) -San Francisco office and secretary-general of the Japanese University Network in the Bay Area (JUNBA), where he also serves on the executive board. He is a university professor at Waseda as well.



Dr. Izutsu received his B.E., M.E., and D.Eng. degrees in electrical engineering from Osaka University in 1970, 1972 and 1975 respectively. He joined the Department of Electrical Engineering at Osaka University in 1975 as faculty of engineering science where he worked in the field of guided-wave optoelectronics. From 1983 to 1984, he was a senior visiting research fellow at the Department of Electronics and Electrical Engineering at the University of Glasgow in the United Kingdom. In 1996, he joined the Communications Research Laboratory, Ministry of Posts and Telecommunications (now the National Institute of Information and Communications Technology, NICT), where he served as a distinguished researcher and looked after its New Generation Network Research Center. From 2004 to 2007, he was program officer for the Research Center for Science Systems at JSPS headquarters in Tokyo. After he retired from NICT in 2008, he served as a Professor at Tokyo Institute of Technology until 2011, in conjunction with a guest professorship at Waseda University.

Professor Izutsu is a corporate member of the Science Council of Japan, a member of the Japanese National Committee for International Union of Radio Science (URSI), Editor-in-chief, Electronics Express published from the Institute of Electronics, Information and Communication Engineers (IEICE). He is a fellow, IEICE, life fellow at the Institute of Electrical and Electronics Engineers (IEEE), a senior member at the Optical Society of America (OSA) and a member of the Japan Society of Applied Physics (JSAP). He received the Best Paper Award several times throughout his career and was the recipient of the Award for Significant Achievement in 1988 from IEICE. He also received the Sakurai Kenjiro Award in 2007.

Professor Izutsu's research has focused on photonics, especially guided-wave optoelectronic devices, and he has co-authored nearly 400 peer-reviewed and invited research papers and conference presentations, more than 30 patents, and 15 books. In 1977 and 1978, he was the first to report on light modulation experiments wider than 10 GHz bandwidth by using original device structures and operation schemes. In 1981, he published his research on the integration of light modulators on a single tip to realize a novel function, or quadrature light modulation, which is widely used in present coherent light communication systems. His latest book published by IEICE in 2012 is entitled "Fundamentals of Light Wave Engineering" (in Japanese).