

Sadayuki Tsugawa

Sadayuki Tsugawa, Dr. Engineering

Professor, Department of Information Engineering, Meijo University, Nagoya, Japan

Invited Researcher, National Institute of Advanced Science and Technology, Tsukuba, Japan

Dr. Sadayuki Tsugawa is a Professor of Information Engineering at Meijo University. He received his B. E. degree, M. E. degree, and Doctor of Engineering degree in 1968, 1970, and 1973, respectively in instrumentation and control engineering all from the University of Tokyo. In 1973, He joined Mechanical Engineering laboratory under Japanese Ministry of International Trade and Industry (MITI). He also was a Professor of Graduate School at University of Tsukuba from 1993 to 2003. In 2003 he resigned the laboratory and moved to Meijo University.

In 1970's he was involved with two ITS projects in the laboratory: a dynamic route guidance system and a vision-based intelligent vehicle. The dynamic route guidance system, named Comprehensive Automobile Traffic Control System (CACSS) and sponsored by MITI, was the first one in the world that was installed in an urban area (downtown of Tokyo), although experimentally, and was experimented for one year. The vision-based intelligent vehicle was also the first one in the world that autonomously drove on a test track. Since then, he has been conducting research on ITS, and, in particular, on Advanced Vehicle Control and Safety Systems (AVCSS), including driver assistance systems and automated driving systems. His current interests are in energy saving and global warming prevention with ITS technologies including automated vehicles as well as vehicle safety communications (VSC) based on inter-vehicle communications.

He has served as general chair and program chair in many international and domestic conferences and symposia sponsored by IEEE ITS Society, IFAC Transportation Committee, and other domestic academic societies. He is a BOG member of IEEE ITS Society since 2008.

Since 2008 he has been serving as project leader of Japanese national project named "Energy ITS" sponsored by Japanese Ministry of Economy, Trade and Industry, which is focusing on CO2 emission reduction from automobile transportation and global warming prevention. The main theme of the project is an automated heavy truck platoon.

He was awarded the best paper prize by the Japanese Society of Instrument and Control Engineers in 1991, and by the Minister of Science and Technology for the research on ITS and AVCSS in 1999.