

## *VR Experts around the World*

### **Prof. Susumu Tachi, Ph.D.**

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Susumu Tachi was born in Tokyo, Japan, on January 1, 1946. He received the B.E., M.S., and Ph.D. degrees in mathematical engineering and information physics from the University of Tokyo in 1968, 1970, and 1973, respectively. He joined the Faculty of Engineering of the University of Tokyo in 1973, and in 1975 moved to the Mechanical Engineering Laboratory, Ministry of International Trade and Industry, where he served as the director of the Biorobotics Division. In 1989 he rejoined the University of Tokyo, and is currently Professor at the Department of Information Physics and Computing of the University of Tokyo.

From 1979 to 1980, Dr. Tachi was a Japanese Government Award Senior Visiting Scientist at the Massachusetts Institute of Technology, Cambridge, USA.

Professor Tachi's scientific achievement includes an intelligent mobile robot system for the blind called Guide Dog Robot MELDOG (1976-1983), National Large Scale Project on Advanced Robotics in Hazardous Environment, especially an advanced human robot system with a real-time sensation of presence known as Telexistence (Tele-Existence) (1983-1990), National Study on a Priority Scientific Area of Virtual Reality (Fundamental Study on Virtual Reality: Generation of Virtual Space and Human Interfaces for Virtual Environments) (1995-1999), National Large Scale Project on Humanoids and Human Friendly Robotics (HRP) (1998-2003), and CREST Project on Telexistence Communication Systems (2000-2005).

His present research covers Robotics, Augmented Reality and Virtual Reality, with special focus on Mutual Telexistence (TELESAR and TWISTER), Real-time Remote Robotics (R-Cubed), Augmented Haptics, and Retro-reflective Projection Technology (RPT), such as Optical Camouflage.

Prof. Tachi is a founding Director and a Fellow of the Robotics Society of Japan (RSJ), a Fellow of the Society of Instrument and Control Engineers (SICE), Vice President and a fellow of the Japan Society of Mechanical Engineers (JSME), and is the founding President of the Virtual Reality Society of Japan (VRSJ). From 1988 he serves as Chairman of the IMEKO (International Measurement Confederation) Technical Committee 17 on Measurement in Robotics. He is a member of IEEE VR Steering Committee and served as General Chair of IEEE VR 2001 and 2002.

**Index Terms**—Guide Dog Robot (MELDOG), Optical Camouflage, Real-time Remote Robotics (R-Cubed), Retro-reflective Projection Technology (RPT), Telexistence.



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