

**Title:** "Real Haptics"

**Abstract:** The standardization based on “the greatest happiness of the greatest number” had been a backbone through 20<sup>th</sup> century. However aging society to come needs independent service for independent person to maximize each QOL. So-called service robot with touching ability instead of young generation should come into our future life. Real haptics is not only a technology to transmit the force/tactile sensation but a strong tool to transfer the motion skill including contact task to the service robot. The concept of modern control is a key for real haptics. The talk introduces what is "real haptics ", how it is realized, how it works, what we can get from this technology, how this technology is harmonized with our society and so on. The real haptics will brings us real happiness.



**Biography:** Dr. Kouhei Ohnishi B.E. (1975), M.E. (1977) and Ph.D. (1980) all in electrical engineering from the University of Tokyo. Since 1980, he has been with Keio University, and is a Professor at Dept. of System Design Engineering. He served as a President of the IEEE IES (2008- 2009). He also served as a President at the Institute of Electrical Engineers of Japan (2015 -2016). He is a Life Fellow of IEEE, a Fellow of IEEJ. He received numerous awards including Dr.-Ing. Eugene Mittelmann Achievement Award from the IEEE IES in 2004, Medal of Honor with Purple Ribbon in 2016 from His Majesty the Emperor and IEEJ Meritorious Contribution Award in 2017. He is a member of the Science Council of Japan. He is author and co-author of many paper and books including "Motion Control Systems" (Wiley)".