

Special Talk 1



Kiyoshi Itao

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Title of the special talk:

**All Creations Send out Information
- Prospects for Integrated Sensing Network Service –**

Abstract of the special talk:

All creations, the earth, all human beings, and every artifact always create information, and continue sending out the information to the outside world. Information transmitted by the earth and outer space has been transferred in detail to human beings by satellite technology. Information transmitted by animals and plants has been detected by remote sensing and GPS technologies, and vital information, in the form of autonomic nervous, blood pressure, and body temperature, transmitted by living human beings detected by micro sensing and low energy wireless technologies. This information has accelerated utilization of cloud computing. As for information transmitted by artifacts, sensing technology of building structures, including scanning for cracks and diagnosis of concrete deterioration by nondestructive evaluation, is a challenge for the future, although the measuring technology of seismic capacity has been gradually developed. This talk overviews all information by all creations.

Biography:

Kiyoshi Itao is the Board Chairman of The Advanced Institute of Wearable Environmental Information Networks (WIN), a non-profit organization specialized in wearable technology in Japan, since August 2000. He is also serving as a President at WIN Human recorder Co., Ltd., the technology consulting specialized in sensor and telecommunication technology including wearable wireless sensor and monitor system, and Chief Supervising Editor of Nature Interface, the environmental information magazine published by WIN. Most recently, he was a Professor at Tokyo University of Science from April 2004 to March 2013 and was specialized in Technology management. From 1996 to 2004, he was a Professor of Department of Precision Engineering (1996-1999), School of Frontier Sciences (1999-2004) at the University of Tokyo after serving as a Professor of School of Science and Engineering at Chuo University from 1992 to 1996. He started his career at Nippon Telegraph and Telephone Corporation (NTT) in 1968, and until 1992, where he was involved in research and development of information systems and its device. He served as several important roles including General Manager of Storage Research, General Manager of Research Planning Office. He is an Emeritus Professor of the University of Tokyo, a Representative Director of Academy of Human Informatics and a Representative Director of Environmental Planning Society. His expertise includes safety system design, wearable device and Human centered informatics.