Speaker: Masahiro Tanaka (Konan University, Japan)

Biography: Masahiro Tanaka is currently a professor at Department of Intelligence and Informatics, Konan University. He graduated from Department of Applied Mathematics and Physics, Kyoto University in 1979. After receiving Master's degree from Kyoto University in 1981, he was at Shimadzu Corporation, Shiga University, Okayama University as an associate professor, and he has been a full professor at Konan University since 1999. He received the doctor's degree of Engineering at Kyoto University in 1990. His scientific interest includes Artificial Intelligence, Soft Computing, Computer Vision and their applications in motion recognition in gymnastics, scene analysis, nursing of elderly people, and so on. He is a member of ISCIE, SICE, IEEJ, RSJ, IEEE, IAIP and JSEC.

Title: Development of Intelligent Systems for Health Care and Monitoring Person's Movement

Abstract: The author has developed or developing various intelligent systems for health care, action recognition and people monitoring by using visual sensors such as RGB cameras, LiDAR's or depth sensors. In this talk, many developed systems will be demonstrated and explained by using movies, where the high technologies are not necessarily required. These systems are not explicitly connected to the Internet, either. We will discuss the possible functions of such systems as IoTs if they are connected to the Internet. Also, some systems employ deep learning software. The advantages and disadvantages of using deep learning will also be discussed.