Augmented Reality & DigiLog: Toward Ubiquitous Virtual Reality 2.0
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ABSTRACT
In this talk, I will introduce a new concept of “ubiquitous Virtual Reality (UVR)” in the view point of Metaverse and then explain how to realize Virtual Reality in physical space with context-aware Augmented Reality. In UVR-enabled space it is possible to personalize using user’s, as well as environmental, context and then selectively share the augmented object with additional (or 3D content as well as text) information according to user’s social relationships. I will also explain some core technologies developed in GIST U-VR Lab for last 5 years and demonstrate U-VR applications such as DigiLog Book, Digilog Miniature, CAMAR Tour, etc.

BIOGRAPHY
Prof. Woontack Woo received his BS in Electronics Engineering from Kyungpook National University in 1989 and his MS in Electronics and Electrical Engineering from Pohang University of Science and Technology (POSTECH) in 1991. In 1998, he received his Ph.D. in Electrical Engineering-Systems from University of Southern California (USC), CA, USA. In 1999, as an invited Researcher, he joined Advanced Telecommunications Research (ATR), Kyoto, Japan. Since Feb. 2001, he has been with the Gwangju Institute of Science and Technology (GIST), where he is a Professor in the Dept. of Information and Communications (DIC) and Director of Culture Technology Institute (CTI). The main thrust of his research has been implementing ubiquitous virtual reality in smart space, which include Context-aware Augmented Reality, 3D Vision, HCI, and Culture Technology.