



Phot by 蜷川実花

Yoichi Ochiai, Ph.D.

Associate Professor,
University of Tsukuba

CEO, Pixie Dust
Technologies, Inc.

wizard@slis.tsukuba.ac.jp

Bio

B.1987, PhD (Applied Computer Science / University of Tokyo, Graduate School of Interdisciplinary Information Studies in 2 years the fastest record), From 2015, joined University of Tsukuba, School of Library Information and Media Studies as Assistant Professor. He is the head of Digital Nature Laboratory. CEO of Pixie Dust Technologies.inc, From 2017 to 2019, he worked as Advisor to President of University of Tsukuba. On December in 2017, his startup, Pixie Dust Technologies.inc, founded Strategic Platform for Digital Nature in University of Tsukuba and appointed him as Director. Simultaneously, he became Associate Professor at University of Tsukuba.

Description

Virtual Reality for Enhancing Human Perceptual Diversity towards an inclusive society

We conducted research project towards an inclusive society from the viewpoint of the computational assistive technologies. This project aims to explore AI-assisted human-machine integration techniques for overcoming impairments and disabilities. By connecting assistive hardware and auditory/visual/tactile sensors and actuators with a user-adaptive and interactive learning framework, we propose and develop a proof of concept of our "xDiversity AI platform" to meet the various abilities, needs, and demands in our society. For example, one of our studies is a wheelchair for automatic driving using "AI technology" called "tele wheelchair". Its purpose is not fully automated driving but labor saving at nursing care sites and nursing care by natural communication. These attempts to solve the challenges facing the body and sense organs with the help of AI and others. In this keynote we explain the case studies and our final goal for the social design and deployment of the assistive technologies towards an inclusive society.