

Utilizing AR Technology in Education and Training Exercises!

AR Application for Disaster Education Released as Open Source Software



Associate Professor
Daisuke Yoshida

At the Center of Education and Research for Disaster Management (CERD), Associate Professor Daisuke Yoshida (CERD Researcher and Associate Professor at the Graduate School for Creative Cities) and Professor Muneki Mitamura (Vice Director of CERD and Professor at the Graduate School of Science) collaborated with BrilliantService Co., Ltd. to develop an augmented reality (AR) application that visualizes onto tablet screens disaster-related information such as evacuation center and AED locations, and information about supposed fires and landslides for training exercises.

*Application operates on iPads with iOS 9.2 or higher.

Conventional disaster education systems and applications only show disaster preparedness and disaster information in digital maps on computers and tablets, leaving it to the imagination of the user to understand the actual situation on the ground. However, by using this newly-developed application with AR display functions, what kind of fire risks are in the target area, what kind of disaster-related

facilities are located nearby, and other questions can be perceived geospatially on the field (actual training location). In addition, response capabilities are expected to greatly improve from the more realistic experience in disaster drills.

The application developed through this research was released online as open source software on January 6th, 2017. The application will be made iPhone-compatible and released in the App Store so it can be available to more people.



Application sample image



Application source code release site:
<https://bitbucket.org/nro2dai/cerd-ar/>

Researchers in Focus



Associate Professor Daisuke Yoshida,
Center of Education and Research
for Disaster Management

Associate Professor Yoshida uses drones to record videos for educational and research activities. What began as just work has gotten him very fond of drones, to the point where he now customizes them. "Going into the distance and taking videos is a really good way to relax. I'm planning to see if drones can be utilized in the future for infrastructure inspections!" he said with shining eyes.

