

# The Lessons from the 2011 East Japan earthquake and tsunami, and forefront of the tsunami research

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## Abstract:

The March 11, 2011 Tohoku earthquake tsunami disaster devastated the Pacific coast of northeastern part of Japan. The large number of casualties more than 19,000 and several types of tsunami impact such as inundation in a large area, destructive force destroying houses, buildings, infrastructures, road, and railways, and change of topography due to the erosion and deposition are reported. We have been obtaining results of field surveys as well as numerical simulation and satellite image analysis with ground truth data, to obtain the data of the tsunami and its disaster, and identify extent of tsunami inundation and damage. More results in the forefront of the tsunami research are introduced.