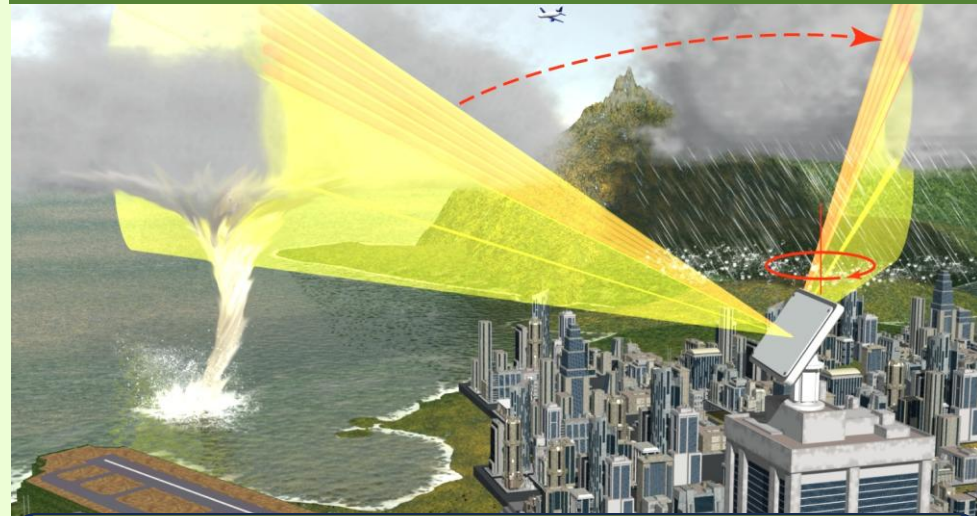


Sensing System Area (Ushio Lab.)

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Next-Gen. Electromagnetic Sensing Architecture



Phased-array technology, which electronically scans using multiple antenna elements, enables high-speed, high-density measurements and advances both disaster-prevention applications and basic science.

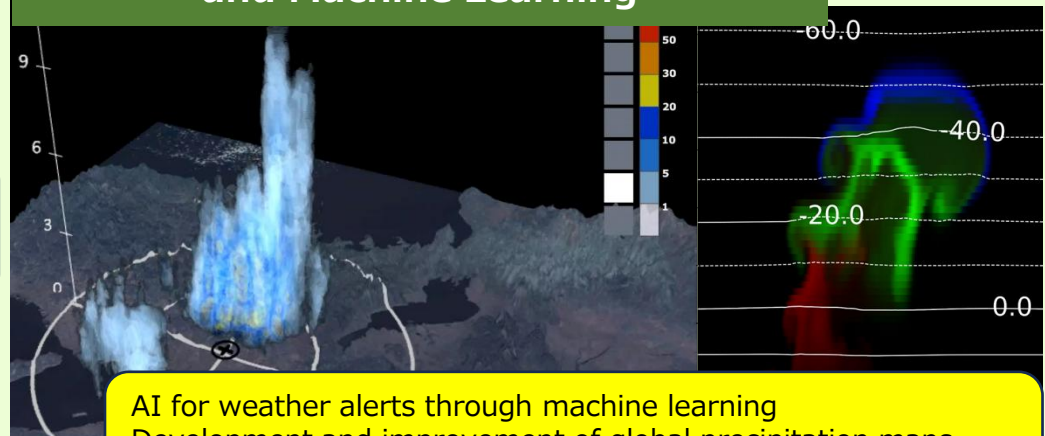


Satellite-based remote sensing of the global environment

Research Overview

This research area promotes a broad spectrum of studies, from fundamentals to applications, with the goal of creating new remote sensing technologies and sensing-data applications. Advances in remote sensing provide society with new "eyes," while applications built on such sensing data open the way to scientific discoveries. Furthermore, AI created through integration with machine learning enriches daily life by improving safety, security and convenience.

AI through the Fusion on Sensing Data and Machine Learning



AI for weather alerts through machine learning
Development and improvement of global precipitation maps
New user interfaces enabled by advanced data

