W. TAKEUCHI LAB.

[Monitoring global environment changes and International technology collaboration]

Department of Humans and Social Systems
Remote Sensing of Environment and Disaster

Department of Civil Engineering, Faculty of Engineering
http://wtlab.iis.u-tokyo.ac.jp/

Mission: Developing methodologies of global-scale measurement on environmental changes in...

Cities          Agricultural area         Forested area

Area exposed to anthropogenic impacts

International technology collaboration with Asian countries

ASSESSMENT OF SOLAR PV POWER POTENTIAL OVER ASIA PACIFIC REGION

Detection of forest fire by Himawari-8 imager with high temporal resolution

3D Reconstruction from Images and LiDAR for Infrastructure Health Monitoring

Impact of socio-economic development on urban air quality in India

Regional/global evaluation of GHGs emission from tropical rice paddies

PM2.5 distribution

PM2.5 measured (µg/m3)

PM2.5 provided by fixed station (µg/m3)

Wind speed (m/s)

GDP growth cause pollution

Factory identification

Brick-kiln identification

Detection of active volcano (Mt. Bromo)

Detection of forest fire by Himawari-8 imager with high temporal resolution

Monitored urban expansion in Auckland, New Zealand

2005 - 2030

2015 - 2030

2020

2030

2040

Predicted Urban expansion in Yangon, Myanmar

MONITORING DEVELOPMENT OF URBANIZATION ALONG RAILWAY

TRAIN FLUCTUATION ESTIMATION USING A PHONE ACCELERATION SENSOR

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MONITORING DECREASE IN SOLAR PV POWER DUE TO DUST

MONITORING DECREASE IN SOLAR PV POWER DUE TO TEMPERATURE

MONITORING DECREASE IN SOLAR PV POWER DUE TO SNOW

MONITORING DECREASE IN MEAN SEASONAL SOLAR PV POWER POTENTIAL

MONITORING DECREASE IN TOTAL EFFECTIVE THEORETICAL SOLAR PV POWER

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