



W.TAKEUCHI LAB.

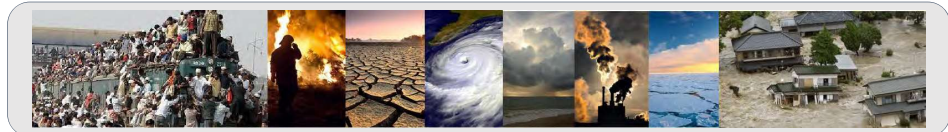
[Monitoring global environment changes and International technology collaboration]

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

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Developing methodologies of global-scale measurement on environmental changes by human activity



International technology collaboration with Asian countries



<p>Conflict Hotspots Elephant Locations</p>	<p>Modeling Human-Elephant Conflict Vulnerable Areas in Changing Climate and Landscapes for Sustainable Conservations</p>	<p>2015 Legend: Rice Areas, Non-Rice Areas, Rice Areas, Non-Rice Areas, Rice Areas, Non-Rice Areas Field views of rice paddy irrigation system in Bangladesh HOW DOES AWD WORK? 1. Paddy fields are left to dry out 2. Rice plants absorb water from the soil AWD irrigation system</p>	<p>Investigating environmental benefits and opportunities of rice cultivation under alternate wetting and drying irrigation in Bangladesh.</p>
<p>Field views of mangrove forests</p>	<p>Dynamic assessment of sustainability in mangrove ecosystems over China through refining carbon footprint and biocapacity</p>	<p>Mumbai-Ahmedabad High Speed Rail Corridor Alignment on Google Earth NDVI & Night light images Methodology: Landsat Data, Night Light Data, Urban Data, Population Data, Time-series Analysis</p>	<p>Analysis of existing High Speed Rail Corridors for understanding Socio-Economic-Environmental Nexus in Mumbai-Ahmedabad HSR Corridor</p>
<p>Colombo District Urban Morphology Map</p>	<p>Analyzing the Effect of Urbanization on Air Quality in Colombo, Sri Lanka</p>		<p>Estimation of Forest Structure Parameters Using Shadow Proportions Obtained from Satellite Images</p>
	<p>Monitoring and Conservation of Seagrass ecosystem</p>	<p>Effective solar PV power potential considering dust effects (L:DJF, R:JJA)</p>	<p>Assessment Of Solar PV Power Potential over Asia Pacific Region</p>
	<p>CO₂ Budget in Tropical Peatlands</p>	<p>Brick-kiln identification Factory identification</p>	<p>Impact of socio-economic development on urban air quality in India</p>
<p>Bar chart showing paddy field area (km²) from 2015 to 2019. Legend: Sentinel-1 (red), Landsat (blue).</p>	<p>Estimation of the paddy field area in North Korea using SAR data</p>	<p>Ho Chi Minh city PM_{2.5} (gm³) vs Wind speed (m/s)</p>	<p>Air pollution mapping and personal exposure assessment by portable devices for urban area</p>