



第32回 生研フォーラム「宇宙からの地球環境・災害のモニタリングとリスク評価」

32nd IIS forum "Earth observation, disaster monitoring and risk assessment from space"



Date: March 6 (Thu.) 13:00 - 18:00 (JST=GMT+9)

Online via zoom (<https://u-tokyo-ac-jp.zoom.us/j/88979452720?pwd=TEF1RTBIM2pvN3ZwRHFNSVphTGlyZz09>)

Oral presentation: 12 min. presentation talk and 3 mins Q&A

13:00 - 13:10

Opening celemory (Prof. Wataru Takeuchi, Univ. of Tokyo, Japan)

Session 1 (Chair: Dr. Yuta Izumi, Muroran Institute of Technology, Hokkaido, Japan)

S1-01	13:10	-	13:25	Application of Grounded-SAM2-Based Segmentation and Spatiotemporal Analysis to Large-Scale UAV-LiDAR Point Cloud Data UAV-LiDAR広域点群データにおけるGrounded-SAM2を活用したセグメンテーションの適用と時空間分析	王天易 (Tianyi Wang) (IIS, The University of Tokyo, Japan)
S1-02	13:25	-	13:40	Integrating 3D Modeling and SAR Radar Data for Accurate Estimation of Earthquake Damage in Urban Structures	Yang Yu (IIS, The University of Tokyo, Japan)
S1-03	13:40	-	13:55	Local Climate Zone Classification in Shanghai and Tokyo Using Multisource Remote Sensing Data and Machine Learning Approaches	Hasi Bagan (Shanghai Normal University, China)
S1-04	13:55	-	14:10	Mapping Floating Aquaculture Cages in Vietnam in 2022 Using Sentinel-1 SAR and Simple Non-Iterative Clustering Image Segmentation	Xuan Truong Trinh (IIS, The University of Tokyo, Japan)
S1-05	14:10	-	14:25	Mapping long-term solar photovoltaic expansion in Asia-Pacific countries using Google Earth Engine	Shoki Shimada (IIS, The University of Tokyo, Japan)
S1-06	14:25	-	14:40	Bridge Dynamic Displacement Monitoring using W-band MIMO Radar	Yuta Izumi (Muroran Institute of Technology, Hokkaido, Japan)
S1-07	14:40	-	14:55	Development of a disaster prevention information system using satellite data and large-scale language models in the 2024 Noto flood 衛星データと大規模言語モデルを活用した防災情報システムの構築：能登半島洪水被害のケーススタディ	Haruka ANZAI (The University of Tokyo, Japan)
S1-08	14:55	-	15:10	Spatio-temporal Analysis of Walkability in Hanoi Using a Micro-macro Integrated Approach ミクロ・マクロ統合アプローチによるハノイのウォークアビリティの時空間変動分析	Yu Mochizuki (IIS, The University of Tokyo, Japan)

15:10 - 15:30

Cofee break (20 mins.)

Session 2 (Chair: Prof. Mitsuharu Tokunaga, Kanazawa Institute of Technology, JapanI)

S2-01	15:30	-	15:45	Surface Deformation Analysis of the 21 November 2022 Mw 5.6 Cianjur Earthquake Using Sentinel-1 InSAR	Arif Aditiya (Nagoya University, Japan)
S2-02	15:45	-	16:00	Volcanic Unrest and Deformation at Ibu Volcano Revealed by InSAR	Arif Aditiya (Nagoya University, Japan)
S2-03	16:00	-	16:15	Investigating the Settlement Displacement in the Boropukuriya Coal Mining Area	Md Rahedul Islam (Pabna University of Science and Technology, Bangladesh)
S2-04	16:15	-	16:30	Attempt to optimize temporal variation of vegetation scattering albedo for soil moisture retrieval in oil palm areas using the LPRM algorithm with AMSR2	Chihiro Naito (IIS, The University of Tokyo, Japan)
S2-05	16:30	-	16:45	Forest Above Ground Biomass Retrieval Using Multi-Sensor Remote Sensing	Rajat (Hokkaido University, Japan)
S2-06	16:45	-	17:00	Irrigation management monitoring of rice paddy fields using ALOS-2 PALSAR-2 ALOS-2 PALSAR-2 データを用いた水田の中干し/AWD監視	Go Segami (JAXA, Japan)
S2-07	17:00	-	17:15	Classification and Visualization of Road Defects Using Computer Vision and GIS to Enhance Road Maintenance Decision-Making	Latif SUBOI (Kanazawa Institute of Technology, Japan)
S2-08	17:15	-	17:30	Application and Challenge of Voxel-based Canopy Reflectance Simulator for Forest Monitoring	Takumi Fujiwara (National Defense Academy, Japan)
S2-09	17:30	-	17:45	Geospatial Assessment of Agrivoltaics Potential for Various Crops: Case of Mindanao, Philippines	Jessa Ibañez (University of the Philippines Diliman, Philippines)
S2-10	17:45	-	18:00	How Paleoclimate Research Sheds Light on Drought Dynamics in Southwest Asia?	Trang Nguyen (University of Bern, Switzerland)

18:15 - 20:30

Reception Party (fee 1,000yen)@APE CUCINA NATURALE, KOMABA (IIS)



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32nd IIS forum "Earth observation, disaster monitoring and risk assessment from space"

Date: March 7 (Fri.) 09:30 - 15:00 (JST=GMT+9)

Online via zoom (<https://u-tokyo-ac-jp.zoom.us/j/88979452720?pwd=TEF1RTBIM2pvN3ZwRHFNSVphTGlyZz09>)

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Session 3 (Chair: Prof. Kazuhito Ichii, Center for Environmental Remote Sensing, Chiba University)

S3-01	9:30	-	9:45	Assessing Current Crustal Deformation in Western Java Using GNSS Data to Understand the Impact of Subduction Zones and Active Fault	Arliandy Pratama Arbad (IIS, The University of Tokyo, Japan)
S3-02	9:45	-	10:00	Leveraging Remote Sensing for Climate Change Monitoring and Adaptation	Agustan Agustan (Nagoya University, Japan)
S3-03	10:00	-	10:15	Spatiotemporal analysis of PM2.5 concentration patterns in greater Jakarta area	Masita Dwi Mandini Manessa (University of Indonesia, Indonesia)
S3-04	10:15	-	10:30	XGBoost Regression for Spatiotemporal Estimation of Soil Moisture in the Kahayan Sebangau Peatland Hydrological Unit	Muhammad Haidar (IIS, The University of Tokyo, Japan)
S3-05	10:30	-	10:45	The Development of Global GPP and ET Products of Enhanced BESS Model Derived from GCOM-C SGLI Datasets	Shuai SHAO (Chiba University, Japan)
S3-06	10:45	-	11:00	Evaluating the sustainability and thermal benefits of vertical green infrastructure in Mori building projects in central Tokyo	Taishi Kimura-Davies (IIS, The University of Tokyo, Japan)
S3-07	11:00	-	11:15	Monitoring Peatland Recovery with L-Band InSAR: A Brief Insights from Time-Series Displacement Analysis	Qoriatu Zahro (Muroran Institute of Technology, Hokkaido, Japan)
S3-08	11:15	-	11:30	Progress on a hypertemporal monitoring of terrestrial environment using Himawari-8/9	Kazuhito Ichii (Center for Environmental Remote Sensing, Chiba University, Japan)

11:30 - 12:30

Lunch (60 mins.)

Session 4 (Chair: Prof. Masao MORIYAMA, Nagasaki University, Japan)

S4-01	12:30	-	12:45	LST and SAR based drainage monitoring	Masao MORIYAMA (Nagasaki University, Japan)
S4-02	12:45	-	13:00	Experimental implementation using multi-functional corner reflector for D-In-SAR CAL/VAL process D- In-SAR 校正検証用の多機能反射体の実装実験	Young-Joo KWAK (Hosei University, Japan)
S4-03	13:00	-	13:15	SynRS3D: A Synthetic Dataset for Global 3D Semantic Understanding from Monocular Remote Sensing Imagery	Jian Song (The University of Tokyo, Japan)
S4-04	13:15	-	13:30	Development of a low-cost sensor and IoT system using Arduino for environmental analysis	Hidekatsu Tazawa (Waseda University, Japan)
S4-05	13:30	-	13:45	BRIGHT: A globally distributed multimodal building damage assessment dataset with very-high-resolution for all-weather disaster response	Hongruixuan Chen (The University of Tokyo, Chiba, Japan)
S4-06	13:45	-	14:00	Assessment of Brick Kilns Induced Air Pollution: A Micro Regional Approach	Kaniz Fatema (Pabna University of Science and Technology, Bangladesh)
S4-07	14:00	-	14:15	Human-driven salt marsh expansion boosts soil carbon gains in China	Yuhan Zheng (Fundan University, China)
S4-08	14:15	-	14:30	Mapping Ganoderma Disease in Oil Palm Plantations Using JERS-1, PALSAR, and PALSAR2 Time-series Dataset	D.A. Samitha Daranagama (IIS, The University of Tokyo, Japan)
S4-09	14:30	-	14:45	Urban Heat Island Intensity and Aerosol Optical Depth Patterns Across Diverse Climate Zones in Indian Cities	Prakriti (Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India)
S4-10	14:45	-	15:00	Monitoring Building Demolition Activity Using InSAR Coherence Time-Series Analysis in 2024 Noto Earthquake	Khin Myat Kyaw (IIS, The University of Tokyo, Japan)

15:00 - 15:15

Closing Ceremony