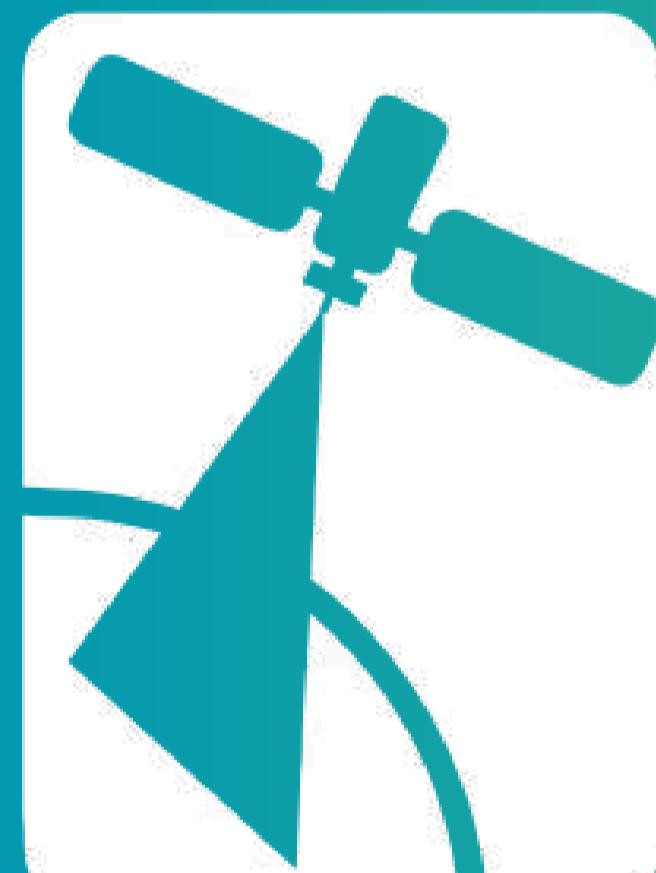




46th ASIAN CONFERENCE ON REMOTE SENSING 2025



ACRS 2025

THE 46th ASIAN CONFERENCE ON REMOTE SENSING

“Harnessing Remote Sensing for Global Sustainability and Innovation”

MAKASSAR - INDONESIA 27 - 31 OCTOBER 2025

Organized by

Asian Association on Remote Sensing (AARS)
Indonesia Society for Remote Sensing (MAPIN/ISRS)
Hasanuddin University



MAPIN
MASYARAKAT AHLI PENGINDERAAN JAUH INDONESIA
Indonesian Society for Remote Sensing (ISRS)



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Welcome Messages



Prof. Dr. Kohei Cho

President, Asian Association on Remote Sensing (AARS)

Dear International Colleagues,

It is with immense pleasure that we announce the 46th Asian Conference on Remote Sensing (ACRS 2025), to be held in the vibrant city of Makassar, Indonesia. Building on the success of the 45th ACRS in Colombo, Sri Lanka which welcomed 215 participants from 30 countries we are honored to collaborate with the Indonesian Society of Remote Sensing (ISRS/MAPIN) to deliver another landmark event.

Indonesia have hosted ACRS two times: in the past. First time in 1987 in Jakarta and second time in 2013 in Bali. We still remember the successful ACRS in Bali with 1379 participants, which is still the top record of ACRS. This year's conference, themed "Harnessing Remote Sensing for Global Sustainability and Technology Innovation," will spotlight cutting-edge advancements in remote sensing, including AI, Big Data, Small Satellites, GIS, and their applications across environmental, social, and technological domains. We are confident that ACRS 2025 will foster dynamic discussions, collaborations, and solutions for global challenges. We eagerly await your presence in Makassar!

Dr. Agustan

Chairperson, Indonesian Society for Remote Sensing (MAPIN/ISRS)



It is my great pleasure to welcome you to the 46th Asian Conference on Remote Sensing (ACRS 2025), held in the vibrant coastal city of Makassar, South Sulawesi, Indonesia. This year's conference is more than a scientific gathering, it is a reunion of ideas, experiences, and most importantly, people. After years of disruptions and digital distances, we are especially grateful to the hundreds of participants who have traveled in some cases, thousands of kilometers to be here in person. Your presence reminds us that science thrives not only through data, but through connection, dialogue, and shared purpose.

To all international delegates, welcome to Makassar a city of maritime legacy, cultural energy, and bold innovation. As one of Indonesia's most dynamic urban centers, Makassar offers not only historical depth and culinary richness, but also a growing ecosystem of universities, research institutions, and civic innovation.

On behalf of MAPIN/ISRS and the national organizing team, I would like to extend our deepest appreciation to:

- Our local host, Universitas Hasanuddin, especially its Faculty of Vocational Studies, whose commitment and tireless work have made this event possible;
- Our generous sponsors and institutional partners, both public and private, for supporting the vision of geospatial cooperation in the region;
- And of course, all participants and speakers who have shared their knowledge, time, and passion with this community.

We also thank the Asian Association on Remote Sensing (AARS) for the opportunity to host ACRS in Indonesia once again for the third time, following the 1987 edition in Jakarta and the 2013 edition in Bali. It is a privilege and a responsibility that we carry with humility and hope.

We believe that the theme of this year's conference, "Harnessing Remote Sensing for Global Sustainability and Innovation," is more than a tagline it is a shared commitment. And here in Makassar, we hope you will find the personal touch that often gets lost in virtual events a handshake, a warm conversation, an unexpected collaboration.

Whether you are joining as a student, researcher, policymaker, entrepreneur, or lifelong explorer of Earth's complexities, you are part of this story. ACRS 2025 is your stage. May this week bring you inspiration, new friendships, and renewed purpose.

Thank you for being here.

Selamat datang di Makassar.

Let's advance remote sensing together, with heart and with vision.

Warm regards,

Dr. Agustan

Chairperson, MAPIN/ISRS

Welcome Messages



Dr. Saibun¹ Tjuatja

President, IEEE Geoscience and Remote Sensing Society (GRSS)

It is my great pleasure to welcome all participants to the 46th Asian Conference on Remote Sensing (ACRS 2025) in Makassar, Indonesia. On behalf of the IEEE Geoscience and Remote Sensing Society (GRSS), I extend my appreciation to the Asian Association on Remote Sensing (AARS), Masyarakat Ahli Penginderaan Jauh Indonesia (MAPIN), and the local organizing committee for their dedication in uniting scientists, engineers, policymakers, and students across Asia.

This year's theme, "Harnessing Remote Sensing for Global Sustainability and Innovation," reflects our collective mission to address urgent global challenges such as climate change, food security, and resilient cities. Remote sensing plays a key role in providing data-driven insights for sustainable development, particularly in monitoring ecosystems, oceans, and urban environments. As a maritime hub, Makassar symbolizes exploration and the growing relevance of ocean-focused remote sensing for coastal protection, fisheries management, and disaster preparedness.

IEEE GRSS is proud to support ACRS as a platform for knowledge sharing and regional collaboration. We encourage students and young professionals to actively contribute through innovative research, open science, and ethical AI. May ACRS 2025 be an inspiring and fruitful event that strengthens partnerships and reinforces our shared commitment to using remote sensing for the benefit of people and the planet.

Warm regards,
Saibun Tjuatja
President, IEEE Geoscience and Remote Sensing Society (GRSS)



Prof. Dr.-Ing. Christian Heipke

President, International Society for Photogrammetry and Remote Sensing (ISPRS)

Warm greetings from the ISPRS community!

I am Christian Heipke, Past President of the International Society for Photogrammetry and Remote Sensing (ISPRS)—a global organization promoting cooperation in photogrammetry, remote sensing, and spatial information sciences. Since its founding in 1910, ISPRS has been dedicated to advancing "information from imagery" for sustainable development and the UN SDGs.

It is an honour to address the participants of ACRS 46 in Makassar, Indonesia. This conference, organized by ASRS—the Asian regional member of ISPRS—has, for over four decades, been a vital platform connecting space agencies, researchers, and practitioners to share innovations and applications in remote sensing, from crop monitoring to forest fire detection and water quality assessment.

We also recognize the lasting contributions of Prof. Shunji Murai, founder of ASRS and initiator of ACRS, whose motto "friendship first, money after" continues to shape the spirit of this community, as well as Prof. Kohei Cho, current ASRS Secretary General and ISPRS Fellow.

Congratulations to all involved in this long-standing success. I wish you productive discussions, new insights, and renewed friendships throughout ACRS 46.

Finally, I warmly invite you to join us at the ISPRS Congress in Toronto, Canada, next July.

Thank you and best wishes for a successful conference

Warm regards,
Prof. Dr.-Ing. Christian Heipke
President, International Society for
Photogrammetry and Remote Sensing
(ISPRS)

Welcome Messages



Mr. Munafri Arifuddin

Mayor of Makassar, South Sulawesi, Indonesia

It is with great pride and warm hospitality that I welcome all participants of the 46th Asian Conference on Remote Sensing (ACRS 2025) to the City of Makassar.

Makassar is honored to serve as the host city for this prestigious international gathering of scientists, engineers, policymakers, and innovators. As a coastal metropolis with a long maritime history, Makassar represents a gateway to Eastern Indonesia a region rich in biodiversity, cultural heritage, and strategic significance for oceanic and terrestrial observation.

The theme of this year's conference, "Harnessing Remote Sensing for Global Sustainability and Innovation," strongly resonates with the aspirations of our city. Like many rapidly growing urban areas, Makassar faces complex challenges from climate change and urbanization to coastal management and disaster preparedness. We believe that science and technology, including geospatial intelligence, play a central role in addressing these issues and building a more resilient and inclusive future for our citizens.

We are also proud to support the strong involvement of local academic institutions, particularly Universitas Hasanuddin, in advancing applied research and innovation. Their leadership reflects Makassar's commitment to being not only a city of trade and tradition, but also a city of knowledge and progress. To our international guests, I invite you to explore the diverse culture, culinary richness, and hospitality of Makassar. May your time here be both professionally enriching and personally memorable. On behalf of the people of Makassar, I extend our deepest appreciation to the Indonesian Society for Remote Sensing (MAPIN), the Asian Association on Remote Sensing (AARS), and all partners who have made this event possible.

Welcome to Makassar — where science meets the sea, and tradition meets transformation.

Warm regards,
Mr. Munafri Arifuddin
Mayor of Makassar
South Sulawesi, Indonesia

Prof. Jamaluddin Jompa

Rector Hasanuddin University



Hasanuddin University is one of the major universities in Indonesia claimed to be the biggest in Eastern Indonesia and hosted by the city of Makassar.

With the long history of academic experience, Hasanuddin University has hosted many international conferences ranging from many varieties of discipline and one of them is related to geospatial technologies. Remote Sensing and Geographic information Systems (GIS) has been one major studies within many departments that has included the study in their curriculum from the basic concept until the implementation of this technology into the publication and the use by any end users. The theme of this year's conference, "Harnessing Remote Sensing for Global Sustainability and Innovation," is very much applicable for all walks of life for sustainable development goals.

This year we are honoured to host Asian Conference on Remote Sensing (ACRS) in the city of Makassar and a Summer School supported by International Society of Photogrammetry and Remote Sensing (ISPRS) and Indonesian Society of Remote Sensing (ISRS/MAPIN). Hasanuddin University is hosting the Summer School in our Educational Forest to the north in the near rural area.

I, on behalf of the university would like to welcome all our international and domestic guests attending this vintage seminar. Welcome to Makassar — a city of maritime legacy, cultural energy, and bold innovation. As one of Indonesia's most dynamic urban centres, Makassar offers not only historical depth and culinary richness, but also a growing ecosystem of universities, research institutions, and civic innovation.

Good luck with all your endeavour of the conference and exhibition. Whether you are joining as a student, researcher, policymaker, entrepreneur, or lifelong explorer of Earth's complexities, you are part of this story. May this week bring you inspiration, new friendships, and renewed purpose.

Sincerely from university

Prof. Dr. Ir. Jamaluddin Jompa, M.Sc
Rector

Welcome Messages



Dr. Ir. Indroyono Susilo

*Ambassador of the Republic of Indonesia to the United States
Founding Member and First Chairperson of MAPIN
(Indonesian Society for Remote Sensing)*

As one of the seven founding members of the Indonesian Society for Remote Sensing (MAPIN) in 1990, it brings me great personal pride to witness the evolution of this scientific community and its continuing contribution to national, regional, and global development.

Over the decades, remote sensing has proven to be more than a tool for observation — it has become a strategic pillar for evidence-based policy, climate resilience, and sustainable growth. In archipelagic nations like Indonesia, Earth observation is vital for managing marine and coastal ecosystems, monitoring fisheries, mapping blue carbon stocks, and understanding the profound changes affecting both our land and our oceans.

As we confront complex environmental and socio-economic challenges — from deforestation and sea-level rise to urban expansion and carbon emissions — it is clear that geospatial science must evolve from data collection to solution generation. This requires a new kind of scientist: one who is not only technically excellent, but also socially engaged, policy-aware, and ready to collaborate beyond the lab.

To the young generation of remote sensing professionals, I offer this encouragement: the work you do has the power to shape the future of our planet. But that future will not be built alone. It will be realized through cross-disciplinary partnerships, particularly with industry, governments, and local communities. The path to sustainability — on land, at sea, and in the atmosphere — must be paved with innovation, inclusivity, and integrity.

Let this 46th Asian Conference on Remote Sensing (ACRS 2025) be not only a forum for technical exchange, but a platform for vision — where ideas converge to support a more resilient, blue-green, and carbon-conscious Asia.

I commend the organizers and all contributors for their dedication to this important cause, and I remain confident that the spirit of collaboration will continue to guide our collective journey

Warm regards,

H.E. Prof. Dr. Indroyono Soesilo

Ambassador of the Republic of Indonesia to the United States
Founding Member and First Chairperson of MAPIN



Dr. Ilham Alimuddin

*Chair, Local Organizing Committee – ACRS 2025
MAPIN/ISRS & Universitas Hasanuddin, Makassar*

It is with great joy and heartfelt pride that I welcome you to the 46th Asian Conference on Remote Sensing (ACRS 2025), held from 27 to 31 October 2025 in the vibrant city of Makassar, South Sulawesi, Indonesia. This year's conference marks the third time Indonesia has been entrusted with hosting ACRS, following successful editions in Jakarta (1987) and Bali (2013). As the Local Organizing Committee Chair, I am honored to be part of this important moment not only for our academic community, but for the broader geospatial ecosystem in Southeast Asia. We are humbled and inspired by the strong response from the community, nearly 350 abstracts were submitted from across 31 countries, Asia and beyond; And we are proud to welcome around 500 registered participants, including scientists, professionals, students, industry leaders, and policymakers. The ACRS 2025 program is designed to be inclusive, multidimensional, and collaborative. Throughout the week, participants can enjoy: Technical Sessions across 6 parallel tracks, including some special sessions; Plenary Keynotes by distinguished experts from international agencies and leading institutions; Poster Sessions and networking spaces for students and early-career researchers; A vibrant Cultural Night featuring Makassar's maritime traditions and performing arts; And an Excursion Tour to the majestic Maros-Pangkep UNESCO Global Geopark, where geology, heritage, and sustainability converge. Our goal is to ensure that ACRS 2025 is not only scientifically enriching, but also personally meaningful a space where knowledge meets culture, and where collaboration extends beyond institutions and borders.

On behalf of the Local Organizing Committee, I would like to express my deepest gratitude to: Universitas Hasanuddin, particularly the Faculty of Vocational Studies, for hosting and coordinating this event with passion and professionalism; The Asian Association on Remote Sensing (AARS) and MAPIN/ISRS for their trust and partnership; All sponsors and institutional supporters who have made this conference possible; And especially, to all committee members and volunteers whose dedication behind the scenes is the true foundation of this success. I hope your time in Makassar is filled with fruitful dialogue, new friendships, and unforgettable experiences both in the conference halls and throughout the city.

Welcome to ACRS 2025.
Welcome to Makassar.

Warm regards,

Dr. Ilham Alimuddin
Chair, Local Organizing Committee
ACRS 2025 – Makassar, Indonesia



ABOUT

Asian Conference on Remote Sensing (ACRS)

Asia's premier remote sensing event, we unite scientists, policymakers, and industry leaders to advance geospatial technologies for a sustainable future. The 46th Asian Conference on Remote Sensing (ACRS 2025) will be held in Makassar, Indonesia on 27–31 October 2025. As a prestigious international event, ACRS has a long legacy of uniting scientists, practitioners, and policymakers from over 60 countries, resulting in numerous influential research publications. Organized by the Indonesian Society of Remote Sensing (ISRS/MAPIN) in collaboration with the Asian Association on Remote Sensing (AARS) and endorsed by leading institutions, this year's conference is held under the theme "Harnessing Remote Sensing for Global Sustainability, Resilience and Technology Innovation."

ACRS 2025 aims to facilitate the exchange of the latest knowledge and innovative practices in remote sensing through keynote addresses, technical sessions, interactive workshops, and technology exhibitions. It will also include strategic meetings such as the General AARS Meeting and recognition of outstanding contributions through awards, especially from young researchers. Complementary networking opportunities, including a festive banquet and cultural night, promise engaging cultural exchanges alongside academic excellence.

Keynote Speakers

Prof. Francesco Pirotti

Associate professor, TESAF Department, University of Padova



Biography

Francesco Pirotti is Professor of Geomatics at the University of Padova, specializing in spatial data modeling and remote sensing for environmental applications. Author of over 200 publications and several open-source tools, he is listed among the top 2% most cited scientists (Stanford-Elsevier). He serves as Chair of ISPRS WG III/8, past-Chair of EARSeL's Agriculture special interest group, and Secretary of the Italian society SIFET. He founded the GEO4H Master in Geostatistics for Global Health and promotes science outreach, including a TEDx talk on remote sensing applications, "Seeing the Invisible."

Session Title :

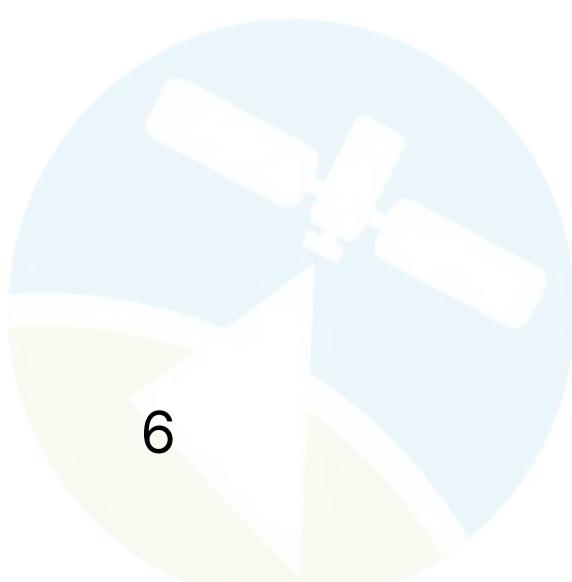
Multimodal Remote Sensing: Bridging Forests, Fields, and Cities for a Sustainable Future

Abstract

One of the main challenges in remote sensing today lies in managing the vast and fast-growing volume and variety of data produced by an expanding number of satellites and sensors. Multimodal remote sensing offers a powerful way to integrate these heterogeneous sources, capturing a holistic view of the Earth system — from green to built environments.

Human wellbeing fundamentally depends on maintaining the delicate balance between these interconnected domains. By linking information across scales and sensor types, multimodal approaches enable transformative insights: from predicting crop yields through satellite-based models of vegetation dynamics, to monitoring ground deformation with InSAR; from characterizing forest vertical structure using LiDAR to modeling fire behavior at the wildland-urban interface.

The examples of practical applications are expanding rapidly, keeping pace with the exponential growth in data availability and computational capacity. Together, they illustrate how multimodal remote sensing can bridge a knowledge-base to improve management of forests, fields, and cities and support informed decisions for the benefit of all.

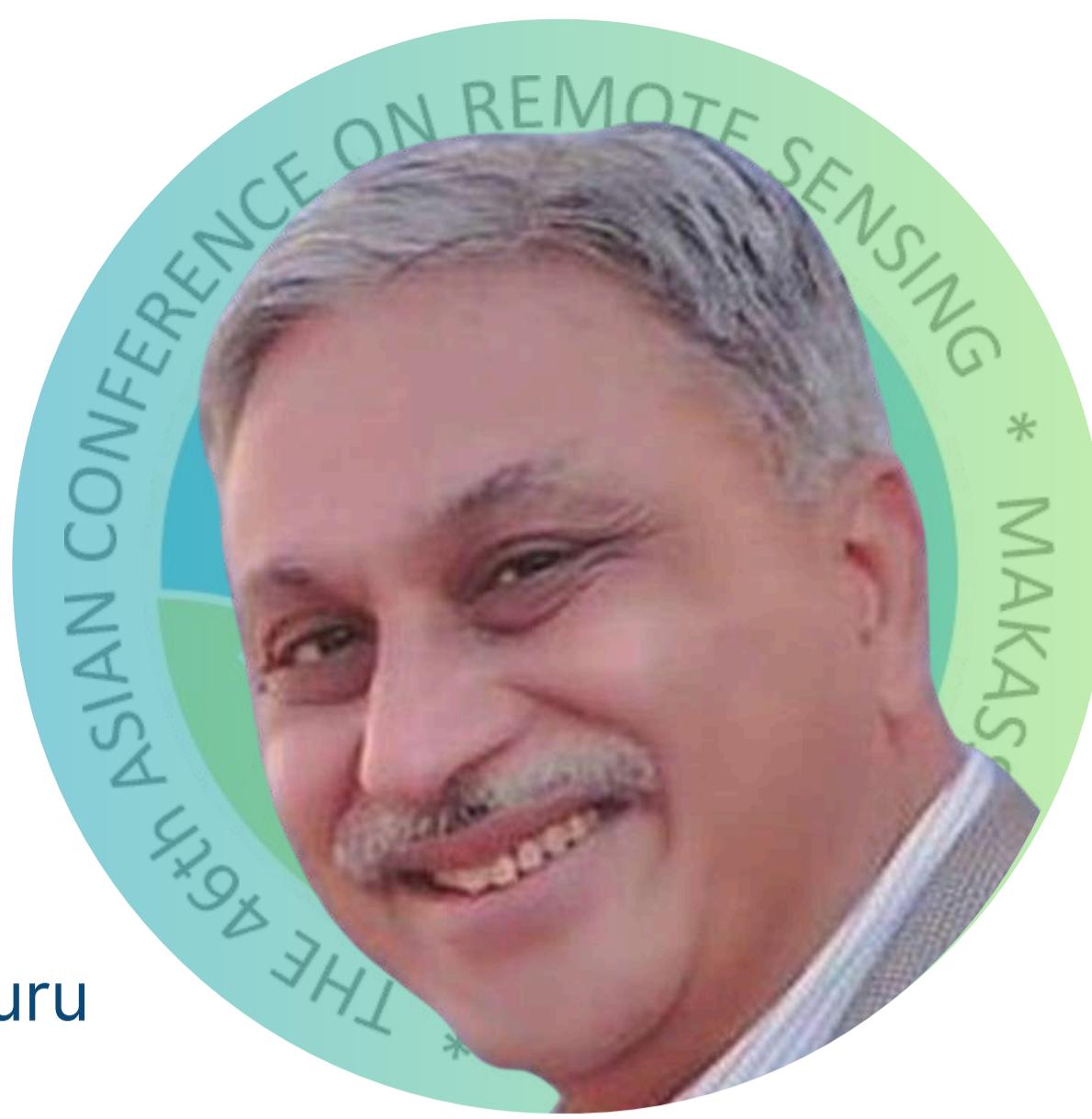


ACRS 2025

Keynote Speakers

Dr. Shailesh Nayak

Director, National Institute of Advanced Studies (NIAS) Bengaluru



Biography

Dr. Shailesh Nayak, the Director of the National Institute of Advanced Studies (NIAS) and former Secretary of the Ministry of Earth Sciences, is a distinguished scientist specializing in oceanography and remote sensing. With a career that began at the Indian Space Research Organisation (ISRO), he made significant contributions to the application of satellite data for marine sciences. Dr. Nayak is widely celebrated for his leadership in establishing the state-of-the-art Tsunami Early Warning System for the Indian Ocean while heading the Indian National Centre for Ocean Information Services (INCOIS). A recipient of the prestigious Padma Shri award, his work continues to influence national policy in disaster management, climate science, and the blue economy.

Title

Earth System Science: The Science of Sustainability

Abstract

Sustainability to be approached at three levels of 'system' – global, social and human (Komiyama and Takeuchi, 2006). The Global or earth system comprises the planet Earth and its components – the geosphere, atmosphere, hydrosphere, cryosphere and biosphere. The earth sustains human being by providing natural resources, energy and conducive ecosystem to survive and Earth system science provides a physical basis for understanding the world in which we live and upon which sustainability depends. The social system consists of the political, economic and industrial structures created by human beings to provide a societal base for the human existence. The human system is connected to the social system and requires following certain lifestyles and values for well-being of people. In broad sense, the earth system science brings together, geo- & ecosystem sciences, space science, technology, engineering with social science, economics and cognition. Remote sensing provides information about components of the Earth system and facilitates the understanding about interactions between these components and anthropogenic activities. The changing global and regional climate and their impact on components of earth systems is critical for sustainability. Some of the aspects discussed include water resources, both surface and ground water, their storage and recharge; snow and glaciers and mass balance; agro-ecosystems (landscapes and soils) and their management; Response of marine ecosystems and fisheries to climate Change, hazards, prediction and warning systems, increased demand of critical minerals such as Li, Ni, Co, Cu, P and rare earth and exploration on land and sea and interaction of ecological, economic and social processes.



ACRS 2025

Keynote Speakers

Prof. Wataru Takeuchi

Institute of Industrial Science, The University of Tokyo



Biography

Prof. Wataru Takeuchi is a Professor at the Institute of Industrial Science, The University of Tokyo, where he leads the W Takeuchi Laboratory. He is a prominent researcher in the field of remote sensing and geoinformatics, specializing in the use of satellite data to monitor and analyze terrestrial ecosystems and environmental changes. His work integrates multi-sensor satellite imagery with in-situ data and geospatial information systems to address critical global challenges. Prof. Takeuchi's research focuses on land cover mapping, agricultural monitoring, forest management, and disaster assessment, particularly in Asia. He has developed innovative algorithms and methodologies for vegetation analysis, urban environment monitoring, and biomass estimation, contributing significantly to a deeper understanding of human-nature interactions and the promotion of sustainable development.

Title :

Asian Urban Resilience: Integrating SAR and AI for Infrastructure Health Monitoring and Rapid Post-Disaster Damage Mapping

Abstract

Urban centers across Asia face a critical dual challenge: managing the deterioration of complex infrastructure networks and mitigating the ever-present risk of major natural disasters. Addressing this requires a paradigm shift from conventional, time-consuming field inspection to advanced, scalable monitoring systems. This presentation outlines a cutting-edge strategy for enhancing Asian urban resilience through the integrated use of Synthetic Aperture Radar (SAR) satellite data and Artificial Intelligence (AI). The methodology is showcased through two complementary applications focusing on both peace-time preparedness and crisis response: (1) Infrastructure Health Monitoring (Peace-Time Application) We employ Interferometric SAR (InSAR) time-series analysis to detect and quantify subtle ground and structural deformation (subsidence, uplift, and movement) that precedes major failure. This system provides a non-contact, wide-area "health check" for critical assets, enabling proactive maintenance and preventing catastrophic failure. Project Examples: Linear Infrastructure Diagnosis: We have established technology to monitor long-span critical structures, including Japanese expressways, and assess the stability of large dams across the Asian region. Ground Instability: Collaborative research utilizing Sentinel-1 InSAR data monitors ground subsidence rates along railway lines in Bangladesh and detects subtle ground movements that signal potential sinkholes in urban areas, such as those near Seoul, South Korea. (2) Rapid Post-Disaster Damage Mapping (Crisis-Time Application) Following major events, AI-driven analysis of high-resolution SAR and optical satellite imagery is used to generate rapid and accurate damage maps. This information is crucial for optimizing immediate resource allocation and coordinating humanitarian efforts. Project Examples: Disaster Response: Following major events like the 2024 Noto Peninsula Earthquake and 2025 Earthquake in Myanmar, we integrated SAR imagery with deep learning models to swiftly estimate building damage levels, providing immediate situational awareness to disaster management authorities. Drawing on these collaborative and domestic projects, this talk demonstrates how the fusion of SAR technology, machine learning, and international technology transfer is not only innovative but essential for building a safer, more sustainable urban future across the Asia-Pacific.

Invited Speakers

Prof. Mazlan Hashim

Professor of Remote Sensing, Universiti Teknologi Malaysia



Biography

Professor of Remote Sensing at the Faculty of Built Environment & Surveying and is a senior fellow at the Geoscience Science & Digital Earth Centre (INSTeG), Universiti Teknologi Malaysia (UTM). Currently, he is the Chairman for Council of Professors UTM. Professor Hashim is an expert in satellite remote sensing data processing, mapping and modelling for environmental applications, including to Planetary Health and SDG applications to Coastal and Water resources management. He has published his research works in more than 150 high impact articles with h-index of 43 in SCOPUS and is listed in the World Top 2% Scientists by Stanford University/Elsevier ranking. Professor Hashim is a Fellow of the Academy Sciences Malaysia, and the Institution of Geospatial and Remote Sensing Malaysia.

Title

Remote Sensing for People and Planet: From Seagrass to Sustainable Futures

Abstract

Remote sensing plays a pivotal role in advancing planetary health and the Sustainable Development Goals (SDGs) by providing synoptic, timely, and multi-scale observations of environmental change. At Universiti Teknologi Malaysia, recent studies illustrate its wide-ranging contributions. Multi-temporal satellite analyses have quantified seagrass distribution and biomass change, supporting SDG 14 (Life Below Water) and SDG 13 (Climate Action). Water quality indicators derived from satellite data in the Straits of Johor inform both ecosystem and public health, contributing to SDG 6 (Clean Water and Sanitation). Synthetic Aperture Radar (SAR) applications for shoreline monitoring and oil spill detection strengthen coastal resilience under SDG 11 (Sustainable Cities and Communities). Integrated geospatial and in-situ approaches have further enabled biodiversity assessments in urban environments, advancing SDG 15 (Life on Land). This plenary will highlight these applications while reflecting on future pathways to maximize the impact of remote sensing for sustainability.



ACRS 2025

Invited Speakers

Dr. Agustan

Chairman, Indonesian Society for Remote Sensing
MAPIN; Senior Member, IEEE GRSS



Biography

Agustan is a geoscientist specializing in InSAR-based ground deformation monitoring, remote sensing, geodynamics, and spatial policy. He earned his degrees from Bandung Institute of Technology (ITB), Curtin University, and Nagoya University, Japan. He currently serves as Chairman of the Indonesian Society for Remote Sensing (MAPIN/ISRS), Senior Researcher at Indonesia's National Research and Innovation Agency (BRIN), and Senior Member of IEEE GRSS. Formerly a Visiting Professor at Nagoya University, he has led regional collaborations in Earth observation and geospatial innovation. As a frequent keynote and session chair in IEEE and ACRS conferences, he bridges science, technology, and policy toward sustainable and resilient futures.

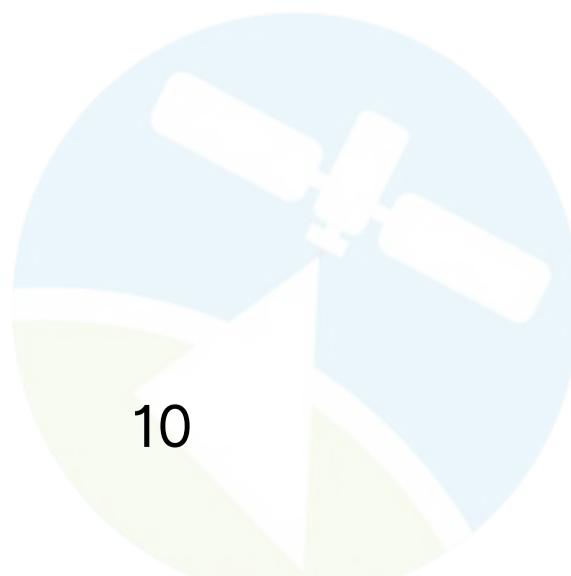
Title :

From Space to Society: The Next Frontier of Remote Sensing for Resilient Futures

Abstract

Over the past few decades, remote sensing has evolved from a scientific discipline focused on observation to a transformative tool that connects data with decision-making. In tropical regions like Indonesia, where persistent cloud cover limits optical imagery, Synthetic Aperture Radar (SAR) has become a crucial “all-weather eye,” enabling continuous monitoring of land deformation, floods, volcanic activity, and agricultural dynamics. Through the integration of InSAR time-series analysis, multi-sensor data fusion, and artificial intelligence, we are witnessing a paradigm shift—where spaceborne observations directly inform policy, disaster preparedness, and environmental stewardship.

This keynote highlights how recent advances in radar remote sensing and cloud-based processing platforms (such as HyP3, LiCSAR, and Google Earth Engine) are democratizing access to geospatial intelligence. By bridging Earth observation, AI, and societal resilience, Asia now stands at the forefront of a new era: transforming satellite data into actionable insight for climate adaptation, food security, and sustainable development. Moving “from space to society” is not merely a slogan—it is the next frontier of remote sensing, where science, innovation, and collaboration converge to build resilient futures.



Invited Speakers

Prof. Josaphat Tetuko Sri Sumantyo

Center for Environmental Remote Sensing
Chiba University, Japan



Biography

Prof. Josaphat Tetuko Sri Sumantyo is a Professor at the Center for Environmental Remote Sensing, Chiba University, Japan, and the founder of the Josaphat Microwave Remote Sensing Laboratory (JMRSL). A leading expert in microwave remote sensing, he is renowned for inventing the Circularly Polarized Synthetic Aperture Radar (CP-SAR), an advanced sensor for high-resolution earth observation. His pioneering work in satellite and radar technology has significant applications in disaster monitoring, environmental management, and maritime surveillance. A prolific author with over 1000 publications and numerous patents, Prof. Sumantyo is a distinguished innovator in his field, contributing globally to the advancement of remote sensing technology.

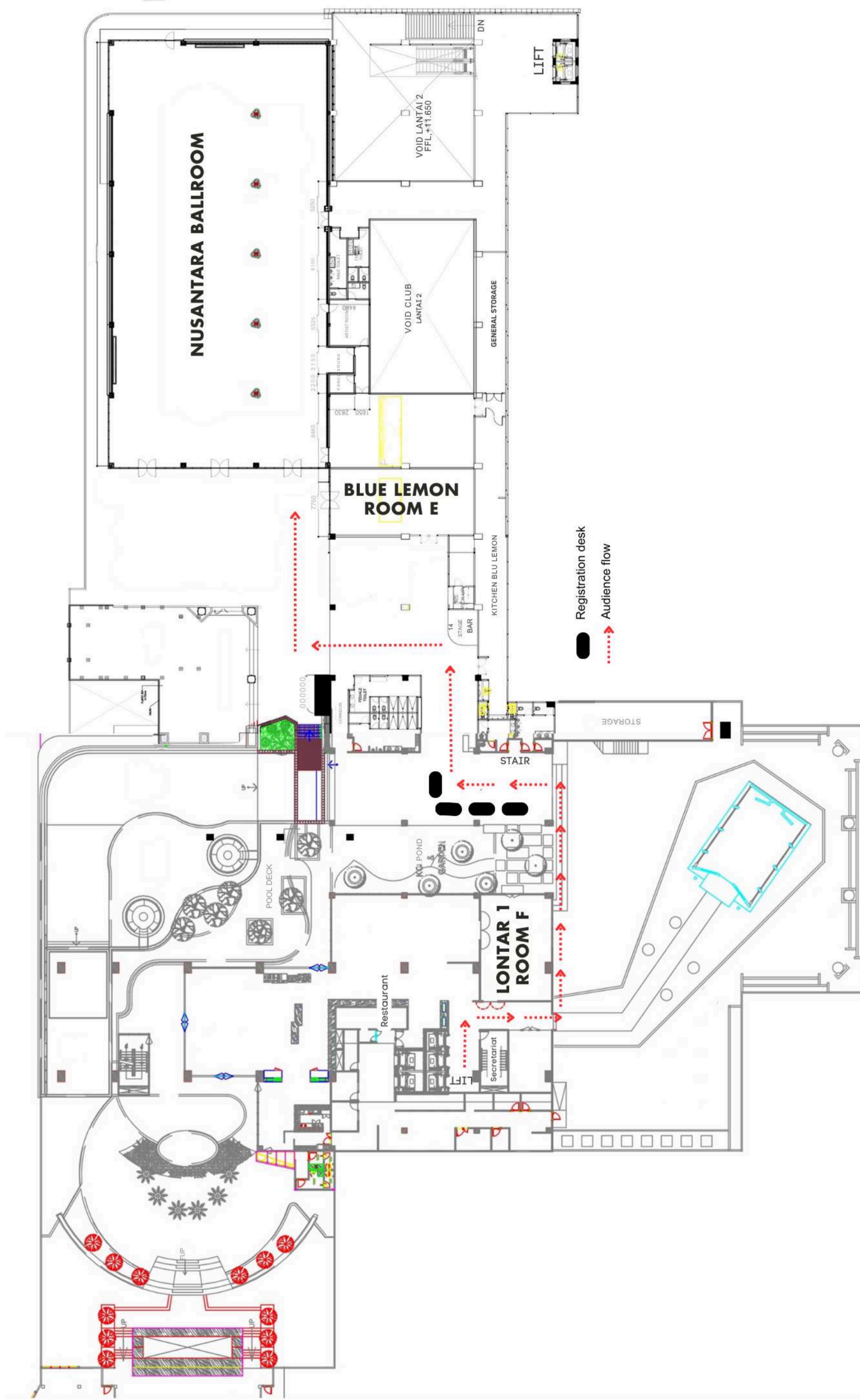
Title

Establishment of an Interdisciplinary Hub for AI Disaster Mitigation and Sustainability

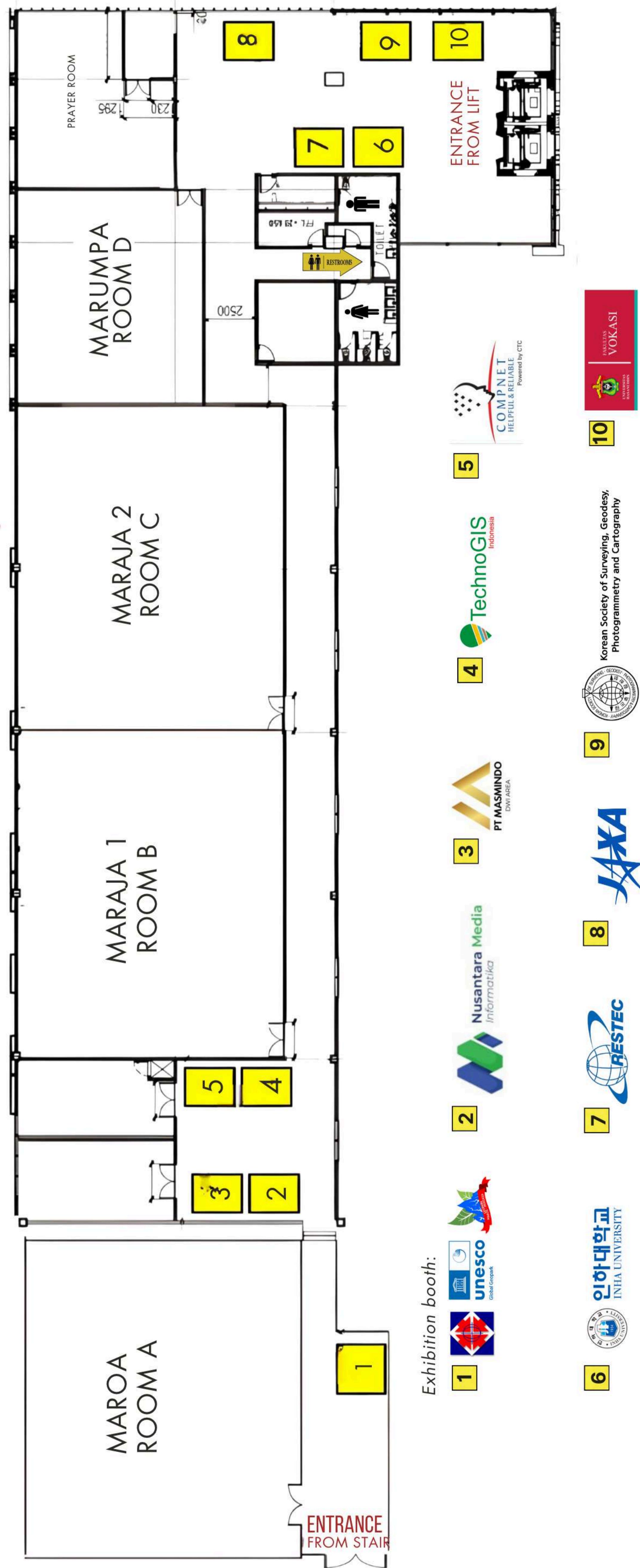
Abstract

Typhoon Faxai on 5 September 2019 made landfall in the Kanto region with one of the highest recorded intensities, causing extensive damage, particularly in Chiba Prefecture (Fudeyasu et.al. 2022 and Tamura et.al 2021). Similarly, the Noto Peninsula Earthquake (M7.6) on 1 January 2024 resulted in severe destruction to buildings, roads, and ports due to ground shaking and terrain changes (Ishikawa et.al. 2024 and Suppasri et.al. 2024). In both cases, the lack of immediate on-site information after the disaster hindered medical emergency response and rapid disaster relief efforts. With concerns about future large-scale typhoons, the Nankai Trough Earthquake, and a potential directly beneath the Tokyo earthquake, this project aims to pioneer the field of AI-based disaster mitigation and sustainability studies. By integrating remote sensing, data science, disaster prevention, meteorology, geophysics, disaster medicine, and social sciences, alongside practical disaster response efforts, the project will leverage satellite big data and spatial AI as its core technologies. This initiative seeks to enhance disaster prediction and prevention functions while establishing an interdisciplinary hub for AI-based disaster mitigation and sustainability studies. By merging scientific disaster forecasting, disaster assessment technologies, and decision-making methods from social sciences, the project aims to develop unprecedented, effective disaster crisis management strategies and technologies. Ultimately, the project envisions the creation of a platform providing pre-disaster prediction data, real-time disaster observation during an event, situational assessments within 24 hours post-disaster, and post-disaster recovery support information. The integration of digital twin-based disaster response science will further contribute to the development of disaster-resilient cities and communities.

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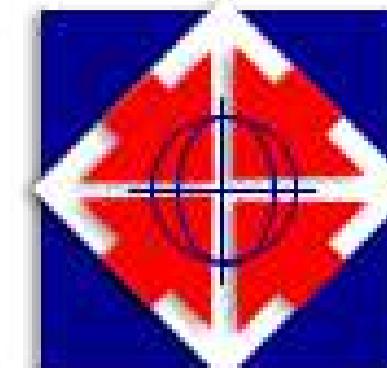
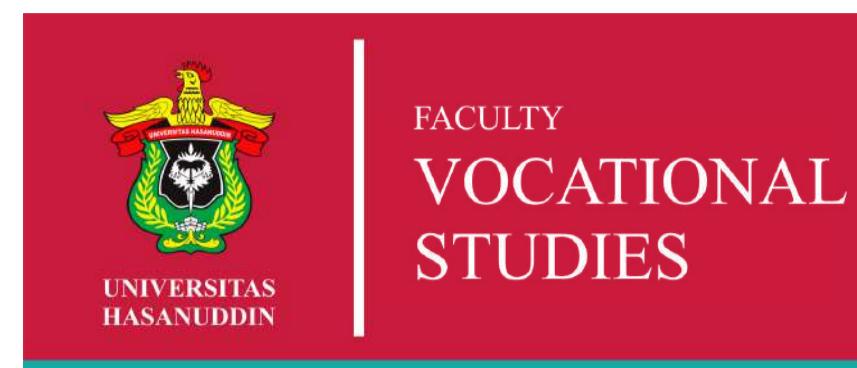
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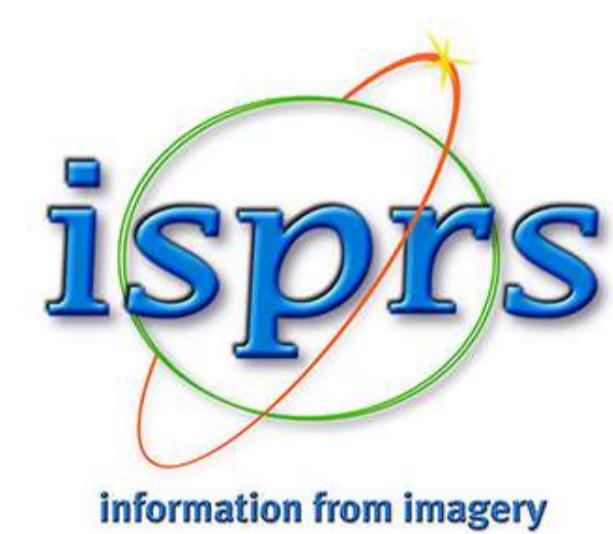
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CONFERENCE SCHEDULE

Date	Time	Room A/ Maroa	Room B/ Maraja 1	Room C/ Maraja 2	Room D/ Marampa	Room E/ Blu Lemon	Room F/ Lontar 1
Sunday, October 26, 2025	14.00 - 20.00						
Monday 27 October 2025; Day 1	07.00-09.30						
	9:30-11.00						
	11.00-11.15						
	11.15-12.00						
	12.00-12.45						
	12:45-13:45						
	13:45-15:15	A1. General Remote Sensing	B1. Application of Remote Sensing	C1. Emerging technology in remote sensing	D1. Geospatial Data Integration	E1. Sustainable Development Goals (SDGs)	F1. ISPRS on SAR
	15.15-15.30						
	15:30-17.30	A2. General Remote Sensing	B2. Application of Remote Sensing	C2. Emerging technology in remote sensing	D2. Geospatial Data Integration	E2. Sustainable Development Goals (SDGs)	White Elephant
	18.00-23.00						
Tuesday 28 October 2025; Day 2	09:00-09.45						
	09.45-10.30						
	10.30-10.45						
	10:45-11:30						
	11.30-12.30						
	12.30-13.30						
	13:30-15:00	A3. General Remote Sensing	ISPRS Satellite Program	C3. Emerging technology in remote sensing	D3. Geospatial Data Integration	E3. Sustainable Development Goals (SDGs)	Commercial Session
	15.00-15.30						
	15.30-17.30	A4. General Remote Sensing	B4. ISPRS UAV Session	C4. Application of Remote Sensing	D4. Geospatial Data Integration	E4. Sustainable Development Goals (SDGs)	F4. Application of Remote Sensing
	18.00-20.00						
Wednesday 29 October 2025; Day 3	08.00 - 15.00						



ACRS 2025

OCTOBER 26-29, 2025

CONFERENCE SCHEDULE

Date	Time	Room A/ Maroa	Room B/ Maraja 1	Room C/ Maraja 2	Room D/ Marumpa	Room E/ Blu Lemon	Room F/ Lontar 1					
Thursday 30 October 2025; Day 4	9:00-10:30	A5. General Remote Sensing	B5. Application of Remote Sensing	C5. Application of Remote Sensing	D5. Geospatial Data Integration	E5. Application of Remote Sensing	WEBCON					
	10:30-10:45	Coffee Break										
	10.45-12.15	A6. General Remote Sensing	B6. Application of Remote Sensing	C6. Application of Remote Sensing	JAXA Session	E6. Application of Remote Sensing	F6. Application of Remote Sensing					
		A6. Application of Remote Sensing										
	12.15-13.15	Lunch (@ Restaurant)										
		2nd General Conference (<u>Delegates only</u> @ Room E / Blue Lemon)										
	13:15-14:15	Poster Session @ Room B / Maraja 1										
	14:15-15:45	ISPRS Geo Health Tutorial	B7. Application of Remote Sensing	C7. Application of Remote Sensing	D7. Geospatial Data Integration	E7. Application of Remote Sensing	F7. Application of Remote Sensing					
	15.45-16.00	Coffee break										
Friday 31 October 2025; Day 5	16.00-17.30	A8. Application of Remote Sensing	B8. Application of Remote Sensing	C8. Application of Remote Sensing	D8. Geospatial Data Integration	E8. Application of Remote Sensing	F8. ISPRS Agriculture and Natural Ecosystem					
	17.00-21.00	Young Scholar Night (@ Room A / Maroa)										
	8:45-10:15	A9. Application of Remote Sensing	B9. Application of Remote Sensing	C9. Application of Remote Sensing	D9. Geospatial Data Integration	E9. Application of Remote Sensing	F9. Application of Remote Sensing					
		D9. Application of Remote Sensing										
	10.15-10.30	Coffee Break										
	10.30-11.00	Plenary Speech: Prof. Josaphat Sri Sumantyo (@Ballroom)										
	11.00-12.00	Closing Ceremony (@ Ballroom)										

SPECIAL SESSION SCHEDULE



Day 1: Monday, October 27, 2025 | 15:30 - 17.30 WITA **Room F (Lontar 1)**

WHITE ELEPHANT SESSION

Session Chair : Prof. Kohei Cho

- What is White Elephant Session? / Kohei Cho
- What It Means to Do a PhD / Christian Heipke
- Presentation Techniques / Shailesh Nayak
- Presentation Techniques / Kohei Cho
- Project Proposal Writing / Kohei Cho



Day 2: Tuesday, October 28, 2025 | 13:30 - 15.00 WITA **Room B (Maraja 1)**

ISPRS Satellite Program

Session Chair : Dr. Sameer Saran

- Japan Aerospace Exploration Agency (JAXA) / KEI OYOSHI
- Indian Space Research Organisation (ISRO) / SP AGGARWAL
- Korea Aerospace Research Institute (KARI) KWAN-YOUNG OH
- Taiwan Space Agency (TASA) / JAY CHOU
- Centre for Remote Imaging, Sensing and Processing (CRISP), Singapore / SOO CHIN LIEW
- Geo-Informatics and Space Technology Development Agency (GISTDA), Thailand/PRAMET KAEWMESRI
- National Research and Innovation Agency (BRIN), Indonesia / ROKHIS KHAMARUDIN

Commercial Session

Room F (Lontar 1) Session Chair : Liz Dizon (Esri Inc)

- JAXA
- RESTEC
- ESRI
- KSGPC
- INHA UNIVERSITY
- MASMINDO
- EARTHDAILY ANALYTICS
- GEOPARK MAROS PANGKEP
- HASANUDDIN UNIVERSITY



Day 4: Thursday, October 30, 2025 |

WEBCON

09.30 - 10.30WITA

Room F (Lontar 1)

Session Chair : Dr. Masafumi Nakagawa

JAXA

10.45 - 12.15 WITA

Room D (Marumpa)

Session Chair : Dr. Key Oyoshi

ISPRS GEOHEALTH TUTORIAL

14.15 - 15.45 WITA

Room A (Maroa)

Session Chair : Dr. Sameer Saran

ORAL PERSENTATION SCHEDULES

 DAY 1 : October 27, 2025 | SESSION 1 (13.45 - 15.15 WITA)

ROOM A (Maroa) : A1 - General Remote Sensing

Session Chair : Prof. Dewayany Sutrisno

Code	Presenter	Title / Author(s)
ABS-35	Ken Yoong Lee	Reflection Asymmetric Target Detection Based on Correlation Coefficients Ken Yoong LEE, Soo Chin LIEW, Santo V. SALINAS and Kim Hwa LIM
ABS-40	Made Wirakumara Kamasan	Analysis of The Nutrient Transport Process in The Southern Java Sea And Their Interplay With Oceanic Eddy Occurrences. Kamasan M.W.* , Osawa. T., Imaoka K.
ABS-66	TING YU LAI	Detecting Land Cover Changes Using Multi-Temporal Radar Imagery: A Case Study of Taiwan^s Western Coastal Region Ting-Yu Lai*, Kuo-Hsin Tseng
ABS-73	Yan Akhbar Pamungkas	Benchmarking Phase Filtering Techniques for Coherence Enhancement and Persistent Scatterer Selection in PSInSAR Yan Akhbar Pamungkas, Shou Hao Chiang
ABS-96	Taiki Uno	Refractive-Aware Gaussian Splatting for Geometrically Accurate and Photorealistic 3D Reconstruction of Bathymetry from Aerial Imagery Taiki Uno*, Sohei Kobayashi
ABS-385	Dewayani Sutrisno	Spatial Decision Support System (SDSS) for Site Selection of Earthquake-Resistant, Rapidly Constructed, and Low-Cost Housing (SDSS Site-RTM) Dewayani Sutrisno, Prabu Kresna

ROOM B (Maraja 1) : B1 - Applications of Remote Sensing

Session Chair : Prof. Osawa

Code	Presenter	Title / Author(s)
ABS-101	MAIZAITOLDURA MOHD ISA	Spatio-Temporal Analysis of Inundation Exposure and Soil Heat Stress in Paddy Fields Using Multi-Sensor Remote Sensing in the MADA Region Maizatuldura Mohd Isa, Hana Mohamad Jamil, Mohd Arif Shahdan Azmi, Mckreddy Yaban, Nurul Suliana Ahmad Hazmi and Mohd Shahrizal Bin Mohd Noor
ABS-128	PEDRO JUNIOR FERNANDES	NDVI Time Series and Dynamic Time Warping Clustering for Phenological Stage Analysis of Rice Cropping Systems in Timor-Leste Pedro Junior Fernandes*, Masahiko Nagai
ABS-39	Chonnaniyah Chonnaniyah	Deep Learning Framework for Automated Detection and Parameter Estimation of Internal Solitary Waves from Sentinel-1 SAR Imagery in the Lombok Strait, Indonesia Chonnaniyah*, Toshikazu Samura, Abd. Rahman As-syakur and Takahiro Osawa
ABS-48	WILIAM	Spatiotemporal Variability of Chlorophyll-a in the Malacca Strait for Algal Bloom Monitoring Using Multispectral Satellite Observations Wiliam*, Po-Chun Hsu
ABS-77	Welly Anak Numpong	Detection of Illegal Waste Dumping via Satellite Imagery using U-Net and Open-Source Tools Welly Anak Numpong, Noryusdiana Mohamad Yusoff, Siti Muazah Md Zin, Muhammad Hazrul Haiqal Abdul Wahab, Nurul Izza Zainal and Kamaruzzaman Wahid


ROOM C (Maraja 2) : C1 - Emerging Technologies in Remote Sensing
Session Chair : Soni Darmawan

Code	Presenter	Title / Author(s)
ABS-184	Kazuki Ohira	Model-based Boat Recognition for Urban River Navigation using Waterborne LiDAR and Scan Matching Kazuki Ohira*, Tetsu Yamaguchi, Nobuaki Kubo, Etsuro Shimizu, Masafumi Nakagawa
ABS-186	TOMOKI SUGIHARA	Simulation-based Assessment of Marker Placement for Point Cloud Acquisition using a Lunar Survey Rove Tomoki Sugihara*, Rikako Shigefuji, Masafumi Nakagawa, Masanori Takigawa, Keitaro Kitamura, Taizo Kobayashi
ABS-195	Fazlurrahman Shomat	A Multi-Year, Multi-Location Sampling Method to Improve the Robustness of Forest Cover Classification in Google Earth Engine Shomat F, Radinal, Dwiyanto, Permana J
ABS-266	JAYARAMA PRADEEP	AeroVision: Onboard AI for Crisis Monitoring JAYARAMA PRADEEP, RITHESHA S
ABS-365	Soni Darmawan	Investigation of the accuracy of World View-2 HD satellite imagery for large-scale mapping in Indonesia Soni Darmawan, Rika Hernawati, Rizka Awwaludin Kamil

ROOM D (Marumpa) : D1 - Geospatial Data Integration
Session Chair : Prof. Rokhis Komaruddin

Code	Presenter	Title / Author(s)
ABS-130	Fithrothul Khikmah	Community Resilience Assessment in Peri-Urban Landscapes: A GIS-MCDA and Management Zoning Approach Fithrothul Khikmah, Alyas A. Widita, Dwinanti R. Marthanty, Michaela F. Prescott, Shanti Sumartojo, Diego Ramirez-Lovering, Alex M. Lechner
ABS-236	Fahmi Amhar	Spatial Modeling of Transition Dynamics in Indonesia's New Capital (IKN): Planning, Monitoring, and Policy Implications Amhar F., Wibowo A., Sa^dianoor
ABS-271	Muhammad Daniel Iman bin Hussain	Improving Multi-Sensor Spectral Harmonization: Bandpass Adjustment for GRUS-1 and Sentinel-2 Muhammad Daniel Iman bin Hussain*, Masahiko Nagai
ABS-279	Syaifulnizam Abd Manaf	Hybrid Image Fusion of Multispectral and SAR Data Using Contourlet Transform and Attention-Based CNN for Cloud and Shadow Problems in Southern Coast of Peninsular Malaysia Syaifulnizam Abd Manaf, Norwati Mustapha, Nor Azura Husin, Raihani Mohamed, Siti Nur Aliaa Roslan
ABS-56	Soomin Kim	A GIS-based spatial data structure for integrating multi-resolution terrain data from lunar orbiter and rover: Application to Lunar Rover Path Planning and Operation Soomin Kim, Jaeyoung Lee, Junho Gong, Taehoon Kim, Hyusung Shin, Sungchul Hong*
ABS-8	Rodel Tolosa Utrera	Mapping Potential Saltern Areas Using Remote Sensing and Geospatial Analysis of Physical and Climatic Parameters for Sustainable and Innovative Salt Production Rodel T. Utrera*, Nathaniel R. Alibuyog, Julius Jonar L. Butay, Joemel G. Agreda, Nadine Sharinette R. Bravo, Lord Ian R. Galano

ROOM E (Blu Lemon) : E1 - Sustainable Development Goals

Session Chair : Prof. Syamsurijal

Code	Presenter	Title / Author(s)
ABS-124	Aprizal Verdyansyah	Comparative Estimation of Groundwater Recharge Using the Thornthwaite-Mather Method in Vegetable Farming Areas: A Case Study of Sarangan and Pujon, Indonesia Aprizal Verdyansyah*, Tang-Huang Lin
ABS-18	Arliandy Pratama	ForensicSAR approach for detecting precursor deformation prior to the collapse of Derna Dam in Libya Arliandy Pratama*, Wataru Takeuchi
ABS-328	Sadianoor Sadianoor	Survey and field interview analysis regarding the rejection by the Balai Adat Manggajaya community of the agreement on administrative boundaries between Hulu Sungai Tengah Regency and Kotabaru Regency Sadianoor*, Samsul R., Gusti R. E., Yazid F. A.S., Madalia I., Deden R.P., Andi A.P., and Syamsul M.
ABS-52	Naydeline Teresita Smith	Remote Sensing Assessment of Ocean Acidification Stressors on Mesoamerican Reef Coral Ecosystems Naydeline Teresita Smith*, Po-Chun Hsu
ABS-55	Muhammad Adib Akmal Azzihan	A Scoping Review of Geospatial Strategies for Resilience in Rural Heritage Communities Muhammad Adib Akmal Azzihan and Norzailawati Mohd Noor
ABS-63	Faqih Musyaffa	Detection of Potential Fishing Zones in Aceh Waters Using Satellite-Derived Sea Surface Temperature and Chlorophyll Fronts

ROOM F (Lontara) : F1 - Special Session : ISPRS on SAR

Session Chair : Prof. Junichi Susaki

Code	Presenter	Title / Author(s)
ABS-142	Rika Hernawati	C-Band SAR-Based Backscatter Modeling for Monitoring Oil Palm Age Rika Hernawati*, Soni Darmawan, Josaphat Tetuko Sri Sumantyo
ABS-198	Xuan Truong Trinh	Tracking rapid mariculture expansion in Xuan Dai Bay, Viet Nam (2015 - 2024) with Sentinel-1 SAR time-series imagery Xuan Truong Trinh*, Wataru Takeuchi, Masahiko Nagai
ABS-206	Takuto Nagaoka	GNSS Positioning Environment Assessment in Urban Rivers for Autonomous Boats using Polarimetric SAR data Takuto Nagaoka(a*), Kyogo Noda(a), Tetsu Yamaguchi, Nobuaki Kudo, Etsuro Shimizu, Masahumi Nakagawa
ABS-356	Greetta Pinheiro	A Comprehensive Framework for Multisource Spatiotemporal Fusion of Optical and SAR Images for Flood Mapping in a Cloud-Based Environment Greetta Pinheiro*, Sonajharia Minz
ABS-7	Maung Moe Myint	SAR Displacement Mapping on Myanmar Earthquake Myint.M.M


DAY 1 : October 27, 2025 | SESSION 2 (15.30 - 17.30 WITA)
ROOM A (Maroa) : A2 - General Remote Sensing
Session Chair : Stefano Vignudelli

Code	Presenter	Title/Author(s)
ABS-23	Andrew Egbert Wiryawan	Wood Extraction from Urban Street Tree Point Clouds using a Deep Learning Approach <i>Andrew Egbert Wiryawan, Chi-Kuei Wang*, Mohamad Bagas Setiawan, Michael Vashni Immanuel Ryadi</i>
ABS-269	Pankaj Pratap Singh	Object Based Classification Approach for impervious and non-impervious surfaces in satellite images <i>Sujuma Basumatary, R.D. Garg, Pankaj Pratap Singh*</i>
ABS-326	Fong Chi Chan	Tropical SMAP Soil Moisture Validation using Triple Collocation: Analysing the error <i>Chan, F.C., Mohd Reba, M.N.*</i>
ABS-327	Fong Chi Chan	VALIDATION STRATEGY FOR SATELLITE-DERIVED SOIL MOISTURE IN TROPICAL REGION <i>Chan Fong Chi and Mohd Nadzri Md Reba*</i>
ABS-371	Stefano Vignudelli	Satellite Radar Altimetry shows how Water Surface Smoothness varies in the Salar de Uyuni (Bolivia) <i>Stefano Vignudelli, Ron Abileah, Paula Pacheco and Francesco De Biasio</i>
ABS-44	Ryunosuke Ishiguro	Depth Refinement in 3D Mapping of Construction Sites Using a Stereo Camera <i>Ryunosuke Ishiguro*, Junichi Susaki, Yoshie Ishii</i>
ABS-45	Mohammad Fuady Rusnadi	Potential Use of Sub-250 Gram Class UAVs for Rapid and Cost-Effective Aerial Mapping: A Case Study at Walimpung Dam, Indonesia <i>Mohammad Fuady Rusnadi- I Gde Budi Indrawan- Ferian Anggara</i>
ABS-87	li xuqing	Estimating Cultivated Land Quality in Sugarcane Planting Areas Using Remote Sensing and Machine Learning in Guangxi, China <i>Zhihe Hu, Xuqing li, Ruiyin Tang, Guohong li, Yancang Wang, Zekun zhang</i>

ROOM B (Maraja) : B2 - Applications of Remote Sensing
Session Chair : Ahmad AlDousari

Code	Presenter	Title/Author(s)
ABS-14	Yaowaret Jantakat	GeoAI Techniques for Detecting and Classifying Roofs-Included Solar Panels on Remote Sensing Imagery in Thai Urban Historical Heritage: The old moat of Nakhonratchasima City Municipality, Thailand <i>Yaowaret Jantakat, Pongpun Juntakut, Chomphak Jantakat</i>
ABS-148	Seongsam Kim	Landslide Displacement Observation in A Mountainous Area using Temporal Geo-spatial Data Acquired from Drone Mapping <i>Kim S.S., Jung Y.H., Koo S., and Park J.W.</i>
ABS-152	SEUL KOO	A Comparative Evaluation of Point Clouds Data Acquired Using Drone LiDAR in Various Terrains <i>Koo S., Jung Y.H., Park J.W., and Kim S.S.*</i>

ROOM B (Maraja) : B2 - Applications of Remote Sensing

Session Chair : Ahmad AlDousari

Code	Presenter	Title/Author(s)
ABS-166	Denny Lumban Raja	Mapping Landslide Susceptibility Using the Random Forest and Land Use Correlation in Northern Bandung <i>Denny Lumban Raja*, Sukristiyanti, Yukni Arifianti, Fitriani Agustin, Roni Marudut Situmorang</i>
ABS-273	Mehmet Arkali	Object-Based Temporal Analysis of Ice Mass Change in the Antarctic Region Using Machine Learning Algorithms <i>Saziye Ozge Atik, Mehmet Arkali, Muhammed Enes Atik</i>
ABS-282	TASKIN KAVZOGLU	A Novel Swin Transformer Based Deep Learning Model for Building Extraction from Very High Resolution Images <i>Kavzoglu, T. and Yilmaz, E.O</i>
ABS-4	Dr. Ahmad AlDousari	Enhanced Detection of Geomorphic Changes in the Khor Al-Sabiyeh Coastal Environment Using SAR, Optical Imagery, and Machine Learning <i>Ahmad E. Aldousari*, Temitope D. Timothy Oyedotun*, Saud Reyadh AlKhaleed, Helene Burningham</i>

ROOM C (Maraja 2) : C2 - Emerging Technologies in Remote Sensing

Session Chair : Putu Edi Yastika

Code	Presenter	Title/Author(s)
ABS-108	Chizuka Fujishima	Development of a Method for Estimating Height from LiDAR Data <i>Chizuka Fujishima*, Junichi Susaki, Yoshie Ishii</i>
ABS-209	Putu Edi Yastika	Enhancing Land Cover Classification Accuracy in Cloud-Prone Tropical Regions Using Majority Filtering and Google Earth Engine <i>Yastika, P.E.*, Sudipa I.N., Gunantara I.M.O. and Karmadi K.A.</i>
ABS-227	Rahmat Faisal	Improving Remote Sensing Change Detection via Spatial Autocorrelation Regularization and Momentum Orthogonalization <i>Rahmat Faisal</i>
ABS-229	Rasta Faisal	Identification of Geothermal Manifestations in Java Island Based on Satellite Data Images Using Random Forest Classification <i>Rasta Faisal</i>
ABS-264	Rahmat Faisal	Adaptive Real-Time Anomaly Detection and Data Imputation in Multi-Device IoT Streams via Nonlinear Dimensionality Reduction and Dynamic Sliding-Window Statistics <i>Rahmat Faisal</i>
ABS-33	SOPHAL RATITYA	Traffic Sign Mapping in Cambodia with Deep Learning and GNSS <i>Sophal Ratitya* and Mitsuhashi Tokunaga</i>
ABS-345	Iksal Yanuarsyah	Integration of Machine Learning, Remote Sensing, and WebGIS for Landslide Hazard Potential Monitoring <i>Yanuarsyah I, Hidayat J, Setiawan I, Agus S.B</i>


ROOM D (Marumpa) : D2 - Geospatial Data Integration
Session Chair : Fatwa Ramdani

Code	Presenter	Title/Author(s)
ABS-146	Jingyao Zheng	Uncertainty quantification and spatial downscaling for passive microwave remote sensing of soil moisture Jingyao Zheng, Tianjie Zhao
ABS-225	I Gede Brawiswa Putra	Interpretable Machine Learning for Crash Severity Analysis of Food Delivery Motorcyclists I Gede Brawiswa Putra*, Febrian Fitryanik Susanta, Bimo Harya Tedjo, Pei-Fen Kuo
ABS-245	Irland Fardani	Delineation of Urban Center Area Based on Remote Sensing Data Irland Fardani, Albertus Deliar,*Anjar Dimara Sakti
ABS-259	Amane Harada	Development of a Horizontally Rotating 3D LiDAR System for Control Point Surveying in Lunar Environments using a Rover Harada Amane, Tomoki Sugihara, Rikako Shigefuji, Masanori Takigawa, Keitaro Kitamura, Takahiro Hiramatsu, Tomowo Ohga, Hisatoshi Sano, Taizo Kobayashi, Masafumi Nakagawa
ABS-34	Fatwa Ramdani	An Adaptive and Modern Land Use / Land Cover Classification System for Indonesia Using Multi-Sensor Earth Observation Imagery and Data-Driven Techniques: Collecting Data and Training with Dashcam and Field Camera Hadi F., Wahyuddin Y., Sabri L.M. , Suprayogi A., and Ramdani F
ABS-362	Ilham Syarief Putra	Analysis of Lightning Characteristics and Hazard Prediction in Karimun Regency Using Maximum Entropy (MaxEnt) Modeling Ilham Syarief Putra, Lalu Muhamad Jaelani, and Muhamad Sawal
ABS-363	Gs Haji Rosli Yusop	GIS-Based Multicriteria Site Selection for Flood Retention: A Case Study in Rembau, Negeri Sembilan, Malaysia Gs Haji Rosli bin Yusop, Dr Zamri bin Ismail
ABS-370	Baba Barus	Challenging the Development of Rice Protection Area at The Nusantara New Capital of Indonesia (IKN) Baba Barus, La Ode S. Iman, Wahyu Iskandar*, Reni K. Tejo

ROOM E (Blu Lemon) : E2 - Sustainable Development Goals
Session Chair : Prof. Mazlan Hashim

Code	Presenter	Title/Author(s)
ABS-26	Mazlan Hashim	Progress Review and Future Directions for Remote Sensing in Planetary Health Mazlan Hashim
ABS-289	Yadi Mulyadi	Geospatial Assessment of Cultural Heritage Vulnerability to Earthquake Hazards in West Sulawesi: A Contribution to Disaster Risk Reduction and SDG Resilience Yadi Mulyadi, Ilham Alimuddin, Muhammad Nur Akram
ABS-3	HAMDAN OMAR	Advancing Malaysia's Forest Monitoring Through Remote Sensing: Integrating Landsat and Google Earth Engine for Carbon Stock Assessment Hamdan O., Muhamad Afizzul M., Simon D. & Karen C.
ABS-301	Nathaniel R. Alibuyog	Evaluating CHIRPS Satellite-Based Rainfall Data for Hydrologic Modeling and Climate Impact Assessment in the Abra River Basin, Philippines Nathaniel R. Alibuyog, Shiverly Benedict Feland T. Dolores, and Rodel T. Utrera
ABS-325	Azzaya Byambajav	Spatial Assessment of Superblock and Miniblock Implementation Potential in Ulaanbaatar Using GIS and Open Geospatial Data Azzaya Byambajav, Enkhjargal Natsagdorj, Sainnbuyan Bayarsaikhan
ABS-333	John Mclien Venadas	Flood Assessment of Catchment Areas and Drainage Networks with Aggregate Quarrying in Angono, Rizal using GIS and Remote Sensing John Mclien Venadas
ABS-340	Arlo Jayson Sabuito	Mapping Cropping Intensity Transitions in the Philippines from 2001 to 2024 Using Harmonic Analysis of MODIS NDVI Time Series Arlo Jayson Sabuito, Ainalyn Nerves, Keith Ann Cabello, Ariel Blanco
ABS-99	Nurin Izzati Azmi	Comparative Analysis of Statistical Thresholding Techniques in Nighttime Light Segmentation Nurin Izzati Azmi and Norzailawati Mohd Noor*


DAY 2 : October 28, 2025 | SESSION 1 (13.30 - 15.00 WITA)
ROOM A (Maroa) : A3 - General Remote Sensing
Session Chair : Prof. Fahmi Amhar

Code	Presenter	Title/Author(s)
ABS-132	Yun-Hao Lin	Precise Building Boundary Extraction Task Using Deep Learning method Lin Y. H.1, Tsai F.*
ABS-176	Huwaida Nur Salsabila	Hybrid Random Forest and Support Vector Machine Classification for Benthic Habitat Mapping using Sentinel-2 Imagery Huwaida Nur Salsabila*, Setiawan Djody Harahap, Abhista Fawwaz Sahitya
ABS-203	Kavitha Arunachalam	Restoration of Inoperative Terrain Data on Planetary Surfaces Using Deep Generative Models for DEM Reconstruction and Morphometric Analysis Kavitha A. Dr. C.Heltin Genitha
ABS-68	Shafira Himayah	Spatio-Temporal Analysis of Savanna Changes and its Correlation with Deer and Bull Populations in Baluran National Park Himayah, S., Somantri, L., Fadhilah, A., and Sulastri, A.
ABS-69	Setiawan Djody Harahap	Mapping Benthic Habitat Composition and Estimating Seagrass Percent Cover Using Stepwise and Machine Learning Regression Methods: A Case Study from Kwandang Bay, North Gorontalo, Indonesia Setiawan Djody Harahap*, Huwaida Nur Salsabila, Abhista Fawwaz Sahitya, Jennifer Wijaya, Safina Rajwaa Ananda, Pramaditya Wicaksono, Nurul Khakhim, Muhammad Kamal, Prima Widayani, Muhammad Banda Selamat
ABS-85	Seunghyeok Choi	Geometric Accuracy Improvement of Geostationary Environment Monitoring Spectrometer by Pixel Offset Adjustment Seunghyeok Choi, Taejung Kim*

ROOM C (Maraja 2) : C3 - Emerging Technologies in Remote Sensing
Session Chair : Dr. Agustan

Code	Presenter	Title/Author(s)
ABS-151	Bernadette Anne B. Recto	Monitoring Landslide Progression in Leyte, Philippines using Sentinel-2 Imagery and AI-Based Semantic Segmentation Bernadette Anne B. Recto*, Raymond Freth A. Lagria, Jude Vito C. Agapito, Likha G. Minimo
ABS-162	Hongjun Youn	Evaluation of CNN-Based Regression Models for Automated SNR Estimation of High-Resolution Satellite Imagery Hongjun Youn, Jihyeon Lim, and Taejung Kim*
ABS-175	Agustan Agustan	Re-evaluating Urban Flood Causality: Integrating InSAR Time-Series and Multi-Sensor Satellite Observations for the 2024 Makassar Flood Agustan Agustan*, Mukhsan Putra Hatta, Ilham Alimuddin, Takeo ITO
ABS-41	ZALFA AFIFAH ZAHRA	Deep Learning-Based Early Detection of Harmful Algal Blooms in Jakarta Bay Using High Resolution Satellite Imagery Zahra Z. A., Hanafie A., Semedi B. and Chang K.T.*
ABS-83	MUHAMMAD AZZAM A. WAHAB	Click, Segment, Learn! Using SAM to Explore Remote Sensing Imagery Muhammad Azzam A.W.* , Az-Azira A.A., Syalini M.S., Siti Nor Afzan A.H., Norhayati C.M., Siti Masayu Y. and Mohd Aizat Hisyam I.
ABS-92	Farhan Ardianzaf Putra	Assessing the Potential of Neural Radiance Fields for UAV-Based DSM Generation: A Preliminary Comparison with Photogrammetry Farhan Ardianzaf Putra*, Cheng-Hsin Li, Chao-Hung Lin, Jiann-Yeou Rau


ROOM D (Marumpa) : D3 - Geospatial Data Integration
Session Chair : Muhammad Faisal

Code	Presenter	Title/Author(s)
ABS-106	Noor Afiqah Mohd Nashar	Youth-Driven Participatory Mapping for Tourism: A Digital Approach for Promoting Cultural Heritage
		Noor Afiqah Mohd Nashar, Assoc Prof Dr Illyani binti Ibrahim
ABS-114	Jiwoo Kang	A Robust Structure-from-Motion Framework under Appearance Variation
		Jiwoo Kang, Kanghyeok Choi*
ABS-309	HUI CHEN	A Landslide Predicting System Integrating Transient Hydrologic-stability Model And Precipitation Forecasts
		Hui Chen*, Chih-Yuan Huang, Shou-Hao Chiang
ABS-331	Hui Lin	A Study on the Platform of Monitoring and Early Warning of Poyang Lake Wetland Ecosystem
		Hui Lin and Chaoyang Fang
ABS-70	MOHAMAD FAISAL BIN MOHAMED YUSOF	TerraLynx 3D: A WebGIS-Integrated Terrain and Sediment Modeling Framework for Dormant Hazard Monitoring in Cameron Highlands
		Mohamad Faisal Mohamed Yusof*, Syahidah Fariza Moh Esa, Siti Muazah Md Zin, Nurul Nadia Abd Malek and Hasni Halim
ABS-91	Nur Hasnieda Zawawi	The Potential Sink City on Coastal Cities Using Recurrent Neural Network (RNN) in Malaysia
		Nur Hasnieda Zawawi, Norzailawati Mohd Noor

ROOM E (Blu Lemon) : E3 - Sustainable Development Goals
Session Chair : Syamsul Bahri Agus

Code	Presenter	Title/Author(s)
ABS-191	Suzanna Noor Azmy	DEVELOPMENT OF CITIZEN SCIENCE MOBILE APP FOR BIODIVERSITY INVENTORY WITH GOOGLE VISION AI
		Sivaraman, H. and Azmy, S.N.
ABS-202	Long Ye	Quantifying urban cooling benefits with SDGSAT-1 nighttime light and thermal infrared data
		Long Ye, Tengfei Long*, Weili Jiao, Elhadi Adam
ABS-306	M. Akbar AS	Integrating Multi-Temporal Remote Sensing for Monitoring Seaweed Aquaculture in South Sulawesi, Indonesia
		M. Akbar AS*, Nurjannah Nurdin, Aswar Anas
ABS-338	Ameliya Magfirah	Community-Based Climate Change Adaptation and Mitigation Strategies in Banggae Timur Subdistrict, Majene Regency
		Ameliya Magfirah*, Budimawan, Muhammad Farid Samawi
ABS-346	Syamsul Bahri Agus	Integrating Professional Geospatial Certification with National Geospatial Information Action Plan 2025-2029: Challenges and Strategic Opportunities in the Era of Emerging Technologies
		Agus S.B, Yanuarsyah I, Hidayat J, Setiawan I
ABS-386	Dewayani Sutrisno	Advancing SDG 11 Through Capacity Building and Science-Based Urban Spatial Planning (SciBUP) in Southeast Asia: Big Earth Data Solutions for Sustainable Urban Planning
		Dewayani Sutrisno

ROOM A (Maroa) : A4 - General Remote Sensing
Session Chair : Dr. Masayuki Matsuoka

Code	Presenter	Title / Author(s)
ABS-109	Ying-Cih Shih	Accuracy Assessment of Multi-Temporal Intertidal DEM in Taiwan Using ICESat-2 Ying-Cih Shih, Kuo-Hsin Tseng
ABS-234	Seunghwan Ban	Geometric Accuracy Analysis of Tie Point-Based RFM Refinement Using Bundle Adjustment Framework Seunghwan Ban, Taejung Kim
ABS-239	Hyeona Kim	Precision Geometric Correction of Very-High-Resolution Satellite Imagery Using Multi-Resolution GCP Chip Matching Hyeona Kim, Taejung Kim*
ABS-339	Nur Dwiyanti Utari	Random Forest-Based Flood Hazard Modeling: Analysis of the Impact of Population Growth and Land Cover Change in the Takkalasi Watershed, South Sulawesi Nur Dwiyanti Utari *, Roland Alexander Barkey, Andang Suryana Soma
ABS-36	Soni Soeharsono	Identification of the Cold Pool Phenomenon at Soekarno-Hatta Airport Site Soni Soeharsono
ABS-49	Kojiro Kazama	Analysis of Disparity Accuracy Factors in Disparity Image Generated Using Moving Images Taken From A Rotating Crane Kazama Kojiro*, Susaki Junichi, Ishii Yoshie, Nakaoka Shohei
ABS-58	Masayuki Matsuoka	A Comparison of Kernel-Driven BRDF Parameters Between AHI and VIIRS for Surface Reflectance Characterization Masayuki Matsuoka*, Hiroki Yoshioka, Kazuhito Ichii
ABS-90	Yohei Kato	Super-Resolution of Advanced Himawari Imager Data Using SRCNN Yohei Kato,Masayuki Matsuoka*

ROOM B (Maraja 1) : B4 - ISPRS UAV Session
Session Chair : Prof. Chang Jae Kim

Code	Presenter	Title / Author(s)
ABS-291	Dr. Alexius Korom	Preliminary Biomass Estimation and UAV Image Exploration of In-situ Phyllanthus rufuschaneyi in Sabah Ultramafic Soils Alexius Korom*, Nur Ain Munirah Amaruddin, Evy Michelle Emison, Rimi Repin, John Sugau and Imam Purwadi
ABS-51	Jung Wook Park	Assessment of Slope Instability in Post-Wildfire Areas Using UAV-DSM and QGIS Park J. W., Koo S., Jung Y. H. and Kim S. S.*
ABS-285	Calvin Wijaya	Towards Fully Automated 3D Reconstruction Using UAV LiDAR and Deep Learning Calvin Wijaya*, Ruli Andaru, Harintaka, Catur Aries Rokhmana
ABS-307	Nurjannah Nurdin	Integrated UAV-Satellite Remote Sensing for High-Precision Spatial Analysis of Production and Physiological Health in Kappaphycus Aquaculture, Indonesia Nurjannah Nurdin*, Evangelos, Agus Aris, M. Akbar AS, Laurent Barille
ABS-336	Mehmet Arkali	Integrating PPP-AR into UAV-based Photogrammetry: Constellation and Accuracy Evaluation Mehmet Arkali, Muhammed Enes Atik


ROOM C (Maraja 2) : C4 - Application of Remote Sensing
Session Chair : Krishna Prasad BHANDARI

Code	Presenter	Title / Author(s)
ABS-1	Cora Jane C. Lawas	Carbon Stock Assessment of Pagatban Community Conserved Mangrove Forest in Negros Oriental, Philippines Using Planet NICFI Data
		Lawas, C. J. C.* , Carreon, J. C. M ., Cortes A. C.
ABS-10	Nur Faziera Yaakub	From Horizontal to Vertical Urban Growth: A Decade of LULC Change in Penang Island, Malaysia
		Nur Faziera Yaakub*, Mohd Hasmadi Ismail, Azita Ahmad Zawawi
ABS-11	MUHAMMAD AKMAL ROSLANI	Spatial Insights into Mangrove Ecosystem Services in Perak, Malaysia: A Preliminary Assessment Using Satellite Imagery
		Muhammad Akmal Roslani, Mohd Hasmadi Ismail and Norizah Kamaruddin
ABS-256	Kenta Ishizuka	Adaptive Sensor Fusion of LiDAR and Stereo Camera for Robust Autonomous Navigation in Outdoor Environments
		Kenta Ishizuka*, Akito Arai, Arata Nagasaka, Kazuyuki Hashimoto, Shotaro Kobayashi, Masafumi Nakagawa
ABS-288	Quang Binh Bui	Leveraging AI and machine learning for high resolution flood susceptibility mapping and early warning in Nghe An province, Vietnam
		Quang Binh Bui
ABS-293	Diki Akhyar Amanatulloh	Mapping Seagrass Cover Percentage and Estimation of Aboveground Carbon Stock using PlanetScope SuperDove Imagery and Random Forest Algorithm in Bontang, East Kalimantan
		Diki Akhyar Amanatulloh*, Pramaditya Wicaksono, Wirastuti Widyatmanti
ABS-310	Krishna Prasad BHANDARI	Integration of Participatory GIS and Local Knowledge to Identify Best Route for Sustainable Tourism in Machhapuchchhre Model Trek, Kaski, Nepal
		Krishna Prasad Bhandari
ABS-312	MD SUFFIAN IDRIS	Retrieval of Water Quality Parameters in Tasik Kenyir, Malaysia Using Sentinel-2 MSI Satellite
		Idris M.S.* , Khalil I. and Mat Amin R.

ROOM D (Marumpa) : D4 - Geospatial Data Integration
Session Chair : Prof. Baba Darus

Code	Presenter	Title / Author(s)
ABS-125	TING-YU CHANG	FAIR perspective towards the development of Remote Sensing Imagery Metadata: A Comparative Study Using ISO 19115-1 and ISO 19115-2
		Ting-Yu Chang*, Jung-Hong Hong
ABS-140	Masafumi Nakagawa	Range-based Scan Matching for LiDAR-SLAM with Non-repetitive Omnidirectional LiDAR
		Masafumi Nakagawa*, Kenshiro Yamamoto(a), Tetsu Yamaguchi(a), Nobuaki Kubo, Etsuro Shimizu
ABS-173	Goestyananda Pratama	Multiscenario Slope Stability Back-Analysis in Open-Pit Mining: A Case Study from Tanjung Enim, South Sumatra
		Goestyananda Pratama*, Imam Achmad Sadisun
ABS-20	kaitao Liao- Hui Lin	Predicting Multi-Scenario Land Use Change and Soil Erosion in the Poyang Lake Eco-Economic Zone Based on Coupled PLUS-RUSLE Modeling
		Kaitao Liao*, Zelong Wu, Yuejun Song, Liang Hu, Hui Lin

ROOM D (Marumpa) : D4 - Geospatial Data Integration

Session Chair : Prof. Baba Darus

Code	Presenter	Title / Author(s)
ABS-272	Mehmet Arkali	2D Coordinate Transformation Between Aerial and Satellite Images Using Helmert and Cubic Splines Methods
		Mehmet Arkali, Saziye Ozge Atik, Cengizhan Ipbuker
ABS-275	Makoto Ishiwata	Efficient Classification of Airborne LiDAR Point Clouds using PointNet++ with Scanning Line Segmentation
		Makoto Ishiwata*, Masafumi Nakagawa
ABS-374	Baba Barus	Experience in development of smallholder rice field area using Geospatial thematic data with different scale in Merauke, South of Papua Indonesia
		Baba Barus, La Ode S. Iman, Utamy Sukmayu Saputri, Arien Heryansah, M. Yanuar J. Purwanto, Yuli Suharnoto, Nana Rostana, Aditya Yumansyah (b), Teguh M. Iskandar, Diar Shiddiq*
ABS-57	Ana Carvalho	A SEMI-AUTOMATIC METHOD FOR DETECTING BURNED AREAS AND DATING HISTORICAL FIRES USING LANDSAT DATA
		Ana Carvalho

ROOM E (Blu Lemon) : E4 - Sustainable Development Goals

Session Chair : Mohd Nadzri Md Reba

Code	Presenter	Title / Author(s)
ABS-231	Harshani Madhumali	Urban Poverty Risk Map Using Night-Time Light (NTL) Data: A Geospatial Analysis of Colombo District, Sri Lanka.
		Madhumali.U.H.G.H. , Rajanayake R.M.A.B.

ROOM E (Blu Lemon) : E4 - Emerging Technology in Remote Sensing

Session Chair : Mohd Nadzri Md Reba

Code	Presenter	Title / Author(s)
ABS-141	I GD Yudha Partama	Enhancing UAV Photogrammetry-Derived Shallow Water Bathymetry Accuracy Through Regression-Based Refraction Correction
		I GD Yudha Partama, I Gede Gegiranang Wiryadi, I Dewa Gede Agung Pandawana
ABS-268	Jingyao Zheng	Global High Resolution (0.05 degree) Mapping of Soil Freeze-Thaw Dynamics via Optimized Microwave-Optical Fusion and DFA Algorithm
		Tianjie Zhao, Defeng Feng, Pei Yu, Ziqian Zhang
ABS-359	Mohd Nadzri Md Reba	Evaluating Satellite Gridded Precipitation Errors in the Sungai Sarawak Basin: A Triple Collocation Approach
		Mohd Nadzri Md Reba, Azalea Kamellia Abdullah, Mazlan Hashim, Mohd Rizaludin Mahmud, Wan Anwar Nadir Wan Ahmad
ABS-380	Bayanjargal.D	DEVELOPMENT OF A NOVEL MULTI-CRITERIA METHOD USING DEEP LEARNING AND OPTIMIZATION FOR IMAGE CLASSIFICATION
		Tsolmonbayar.Sh
ABS-260	Anuradha Bandara Rajanayake	Automated Plot-Level Paddy Land Mapping in Smallholder Agriculture Using Deep Learning and Multi-Temporal Satellite Imagery - A Sri Lankan Case Study
		Rajanayake R.M.A.B.* , Fernando W.J.G.S.T.V., and Dharmawansha. B.A.D.K.H.



ROOM F (Lontara) : F4 - Application of Remote Sensing

Session Chair : Shoki Shimada

Code	Presenter	Title / Author(s)
ABS-110	Sangho An	BPA-Based InSAR for High-Resolution DEM Generation Using UAV and Airborne Platforms
		Sangho An, Duk-jin Kim, Junwoo Kim
ABS-334	Yamini Agrawal	Deep Learning Framework for Large-Scale Precision Mapping of Brick Kilns to Support Sustainable Policy in the Indo-Gangetic Plain
		Yamini Agrawal*, Hina Pande, Poonam Seth Tiwari, Shefali Agrawal, Prakash Chauhan
ABS-295	Shoki Shimada	Mapping Crop Types across Mixed Single- and Double-Cropping Systems in Brazil Using Satellite Time-Series Data and Machine Learning
		Shoki Shimada, and Kei Oyoshi
ABS-150	Juyeon Lee	Towards Effective LiDAR-Based Mapping with Handheld Rotating Sensors in Complex Environments
		Juyeon Lee, Kanghyeock Choi*
ABS-78	BINTI AHMAD ASHLEZA	Forest Regeneration Status To Support Forest Health In Panti Forest Reserve Using Machine Learning Approach
		Ashleza Ahmad*, Noordyana Hassan
ABS-79	Yen-Jung Chen	A Fire Scene Reconstruction System Integrating Fire Dynamics and Structural Analysis Models
		Yen-Jung Chen, Chih-Yuan Huang, Wen-Shuo Liang, Jun-Yi Wu, Wei-Hsuan Lin
ABS-82	Mohd Adha bin Abdul Majid	Sentinel-3 SAR Altimetry for Accurate Water Level Retrieval in Small Tropical Reservoirs
		Mohd Adha Abdul Majid, Nurul Hazrina Idris*, Mohd Nadzri Md Reba
ABS-93	Bikash Sherchan/Krishna Prasad Bhandari	Flood Estimation with Application of Surface Water and Ocean Topography (SWOT) satellite data in Gandaki River Basin, Nepal
		Sherchan B and Bhandari K P

ORAL PRESENTATION SCHEDULES

DAY 4 : October 30, 2025 | SESSION 1 (09.00 - 10.30 WITA)

ROOM A (Maroa) : A5 - General Remote Sensing

Session Chair : Zylshal

Topic	Presenter	Title/Author(s)
ABS-107	Wenwu Wang	Passive remote sensing of marine liquid cloud geometric thickness using the O2-O2 band: first results from TROPOMI Wenwu Wang, Chong Shi*, Jian Xu, Shuai Yin, Huazhe Shang, Yutong Wang, Chenqian Tang, Ruijie Yao, Guangyu Shi, Husi Letu*
ABS-193	Zylshal	On the influence of initial guess DEM for gcp-less digital elevation model extraction using photogrammetry on SPOT-6/7 tristereo imagery - A case study of South Sulawesi Zylshal Zylshal *, Parwati Sofan, Indri Pratiwi J, Athar Abdurrahman Bayanuddin
ABS-201	Julio Jeremia Sinabutar	Quantifying the Impact of Data Augmentation on Road Segmentation Performance in Deep Learning Models Julio Jeremia Sinabutar*, Jiann-Yeou Rau
ABS-25	Chomchid PHROMSIN	ASSESSING BEACH CARRYING CAPACITY: APPLYING OBJECT DETECTION TECHNOLOGY AT SAI KAEW BEACH, KOH SAMET THAILAND Chomchid Phromsin*, Kunlasatee pookpanich, Benjamatpawn Kitjao, Nanticha Poonpanich, Punyanut Traiyatha
ABS-335	Katanchalee Taweepornwattanakul	High-Resolution PM2.5 Modeling and Respiratory Disease Correlation in Chiang Mai Using Himawari-9 and Ground Observations Katanchalee Taweepornwattanakul and Wataru Takeuchi
ABS-387	Dewayani Sutrisno	Certification of Geomatic for better future Dewayani Sutrisno, Syamsul Bahri Agus

ROOM B (Maraja 1) : B5 - Application of Remote Sensing

Session Chair : Ferad Puturuhi

Topic	Presenter	Title/Author(s)
ABS-15	Ferad Puturuhi	THE ACCURACY OF OBIA METHOD TO DETERMINE LANDSLIDE CANDIDATES IN SIRIMAU AND NUSANIWE DISTRICT, AMBON CITY Ferad Puturuhi*
ABS-257	Surya Adi Putra Pratama	Study of Sediment Land Elevation Dynamics Using Airborne LiDAR in the Ajkwa Estuary, Mimika, Papua, Indonesia Pratama S.A.P. , Pramadarsah A. and Helmi M.
ABS-303	Nurul Masyiah Rani Harusi	Analysis of NO2 Air Quality Parameters Based on Satellite Imagery in Cement Industrial Area Nurul Masyiah Rani Harusi*, Hengky Palalangan, Sumarni Hamid Aly, Ibrahim Djamaruddin, A.Azizah Nurul Dinanti
ABS-32	Tung Cheng Lu	Residual landslide susceptibility analysis based on integrated machine learning framework Shou Hao, Chiang, Tung Cheng, Lu
ABS-46	Ya Li Lin	Image Quality Assessment for UAV-based Infrastructure Inspection: An AI Pre-selection Strategy Ya-Li Lin*, Guan-Chin Su, Lai-Han Zou, Chao-Hung Lin, Jiann-Yeou Rau, Wei-Shen Lai, Chih-Chao Hu

**ROOM C (Maraja 2) : C5 - Application of Remote Sensing****Session Chair : Bayanmunkh Norovsuren**

Code	Presenter	Title/Author(s)
ABS-380	Brany Kurnianto	MORPHOLOGICAL ANATOMY OF MOUNT UNGARAN: REMOTE SENSING AND PETROLOGICAL APPROACH USING HIGH RESOLUTION DRONE TO REVEAL VOLCANIC STRATIGRAPHY AND GEOLOGICAL STRUCTURE
		Emi Sukiayah, Agus Didit Haryanto, Budi Muljana, Shaparas Daliman
ABS-200	Muhammad Nizar Yoga Pratama	Multi-Scale Remote Sensing Analysis for Oil Palm Plantation Mapping: Evaluating the Relative Importance of Spatial and Spectral Resolution
		Muhammad Nizar Y.P.*, Yanuar A.N., Dika Dika A.J.
ABS-213	Bayanmunkh Norovsuren	DEVELOPMENT OF A NOVEL MULTI-CRITERIA METHOD USING DEEP LEARNING AND OPTIMIZATION FOR IMAGE CLASSIFICATION
		Tsolmonbayar.Sh, Batchuluun.Ts, Bayanjargal.D*, Tsolmon.R, Oyunsanaa.B, Davaajargal.J and Bayanmunkh.N
ABS-222	Arpin Hardiana	The Capability of Machine Learning Combined with PlanetScope for Detecting Seaweed Using the OBIA Method
		Arpin Hardiana*, Nurjannah Nurdin
ABS-242	Atika Izzaty	Spatiotemporal Analysis of Surface Urban Heat Islands using Otsu Threshold and Gaussian Approach for Local Climate Change Detection
		Atika Izzaty*, Hone-Jay Chu and Mohammad Adil Aman
ABS-255	BATRISYIA CHE AZANI	Mapping Coral Reef Habitat Using High-Resolution Satellite Imagery and Temporally Disparate In Situ Data: A Multi-Depth Analysis
		Batrisyia Che Azani, Nurul Ain Mohd Zaki*, Mohd Zainee Zainal, Rozaimi Che Hasan and Tajul Rosli Razak

ROOM D (Marumpa) : D5 - Geospatial Data Integration**Session Chair : HAO HAN CHANG**

Topic	Presenter	Title/Author(s)
ABS-129	HAO HAN CHANG	A 3D GIS Perspective Towards the Occlusion Problem in XR Environment
		Hao-Han Chang*, Jung-Hong Hong
ABS-147	Teruhiko Meguro	Pose Correction for SfM-based River Mapping using the Fixed Baseline and Optical Axis of an Omnidirectional Camera as Constraints
		Teruhiko Meguro*, Tetsu Yamaguchi, Nobuaki Kubo, Etsuro Shimizu, Masafumi Nakagawa
ABS-111	Shoya Morizaki	A Comparison of SuperPoint + SuperGlue and SIFT-Based Pipelines for Sparse-View Structure-from-Motion
		Shoya Morizaki, Masayuki Matsuoka*
ABS-157	Yusuke Eshima	Stereo Image-based Relocalization for Robust Visual Odometry
		Yusuke Eshima*, Masafumi Nakagawa
ABS-174	Zakri Tarmidi	A Conceptual Geospatial Data Management Model for National Parks: A Case Study of Sarawak
		Zakri Tarmidi, Noordyana Hassan, Suzanna Noor Azmy, Nurul Nadiah Yahya
ABS-185	Kantaro Kanai	CityGML-based Representation of Urban River Environments using Waterborne MMS Point Clouds with LOD-Aware Modeling
		Kantaro Kanai*, Tetsu Yamaguchi, Nobuaki Kubo, Etsuro Shimizu, Masafumi Nakagawa



ROOM E (Blu Lemon) : E5 - Application of Remote Sensing

Session Chair : Yanuar Adji Nugroho

Code	Presenter	Title/Author(s)
ABS-116	Samar Youssef Sayed Mohamed	Detection and analysis of forest fire damaged areas using Sentinel-2 imagery in Gyeongsangbuk-do Province, Korea Mohamed, S.Y., Yoon, H.S., Lee, S.Y., Choung Y.J., and Jo M.H.*
ABS-139	Teerawat Suwanlertcharoen	Multi-Mission Satellite Remote Sensing for Spatiotemporal Retrieval of Riverine Water Turbidity in the Chao Phraya River, Thailand Teerawat Suwanlertcharoen*, Siam Lawawirojwong and Kampanat Deeudomchan
ABS-155	HASSAN NOORDYANA	IMPACT OF LAND USE LAND COVER CHANGES ON WILDLIFE PRESENCE IN ENDAU ROMPIN (PETA) NATIONAL PARK MAT KHIR, N. F. A. AND HASSAN, N.
ABS-165	Hsueh-Ching Wang	Cross-scale remote sensing for bamboo species mapping in Taiwan Wang, H.C.* , Chen, Y.W., Lin, H.Y., Chao, W.C., Lee, S.Y., Chen, Y.Y., Yuan, M.H., and Kuo, S.Y.
ABS-179	Yanuar Adji Nugroho	Scalable Deep Learning Framework for Non-Urban Landcover Mapping in Tropical Regions Using IFSAR Data Yanuar A.N.* , Muhammad Nizar Y.P.

ORAL PRESENTATION SCHEDULES

 **DAY 4 : October 30, 2025 | SESSION 2 (10.45 - 12.15 WITA)**

ROOM A (Maroa) :

A6 - General Remote Sensing

A6 - Application of Remote Sensing

Session Chair : Dr. Hendra Pachri

Code	Presenter	Title
ABS-138	Junichi Susaki	Estimation of Terrestrial Albedo from Multiple Reflectance Observations in a Single Day for SGLI Albedo Products
		Susaki, J.* , Ishii, Y., Kuriki, A., Kimura, Y. and Ono, A.
ABS-181	Wenyville Nabor Galang	RS-GIS based Rice Residue Energy Potential Assessment: A Case Study in Ubay, Bohol
		Galang W.N.* , Abucejo M.I., Cinco F.R., Daquio R., Japos A.M., Madanguit V. and Mende, G.
ABS-241	sanjeev kumar raut	Identification of Groundwater Potential Zones using Geo-information: A Case of Bharatpur Metropolitan, Nepal
		Sanjeev Kumar Raut*, Arjun Dulal, Subash Bhandari
ABS-375	Rika Hernawati	Spatiotemporal Analysis of Land Surface Temperature, Vegetation, and Water Index Correlations Using MODIS Data (2003-2024) (Case Study: Palangkaraya City, Indonesia)
		Soni Darmawan, Rika Hernawati, Muhammad Faiza Abdurrahman
ABS-6	Trisha Leigh Lunas	SPATIAL TEMPORAL MODELLING OF POTENTIAL LIGHT POLLUTION IMPACTS IN MT. APO NATURAL PARK
		A. Masongsong, L. Lunas, F. Celestial, Jeark Principe
ABS-86	Ruiyin Tang	Soil Salt Content Inversion Using a New Salinity Index Based on a Stacking Model
		Yufei Lan, Ruiyin Tang, Guohong Li, Xuqing Li, Yancang Wang, Haizhou Chen, Tingxuan Wang

ROOM B (Maraja 1) : B6 - Application of Remote Sensing

Session Chair : Sarono

Code	Presenter	Title
ABS-12	Maung Moe Myint	Ecosystem Stress of Rare Earth Mining in Northen Myanmar
		Myint M.M
ABS-160	Anwar Nasrudin	Changes in Satoyama Landscapes in Sumedang, West Java, Indonesia
		Anwar Nasrudin*, and Akemi Itaya
ABS-283	Sarono	Evaluation of Sentinel-2 and PlanetScope Image Fusion for Tree Species Identification in Wanagama Tropical Forest, Indonesia
		Sarono *, Muhammad Kamal, Sigit Heru Murti BS, Emma Soraya

ROOM B (Maraja 1) : B6 - Application of Remote Sensing

Session Chair : Sarono

Code	Presenter	Title
ABS-319	Nurul Masyiah Rani Harusi	Satellite Imagery-Based PM10 Air Parameter Analysis in Makassar City
		Nurul Masyiah Rani Harusi*, Rizieq Akbar Mubarak, Sumarni Hamid Aly, Mitani Yasuhiro, Khaerul Amru
ABS-322	Jeny Villaluz Raviz	Satellite-Powered Crop Insurance to Protect Rice Farmers from Climate Risks
		Raviz J.V.*, De La Cruz I.Q., Gutierrez M.A.R., Alosnos E.D., Garcia C.A, Villano L. S., Hellin J. and Laborte A.G.
ABS-343	PEDRO JUNIOR FERNANDES	Early Detection of Agricultural Crop Losses after Flood Events Using Satellite Remote Sensing: Case Cyclone of Seroja in Timor-Leste
		Pedro Junior Fernandes*, Masahiko Nagai

ROOM C (Maraja 2) : C6 - Application of Remote Sensing

Sustainable Development Goals

Session Chair : Gede Astawa Karang

Code	Presenter	Title
ABS-182	Prasetyo Umar Firdianto	Assessment Characteristic of Precipitable Water Vapor Using GNSS Satellite and Model ERA-5 in Surabaya, East Java, Indonesia
		Prasetyo Umar Firdianto*, Bangun Muljo Sukijo
ABS-214	Sunghyeon Kim	Adaptation of TIN-based Ortho-Mosaicking for DSM Error Mitigation
		Sunghyeon Kim, Taejung Kim
ABS-378	Masita Dwi Mandini Manessa	Application of Remote Sensing Analysis for Shoreline Change as a Basis for Coastal Abrasion and Erosion Disaster Mitigation on the Selayar Limestone Formation, South Sulawesi Province Indonesia
		Atysatya Prawira Adjas*, Masita Dwi Mandini Manessa, Iqbal Putut Ash Shidiq
ABS-314	I Wayan Gede Astawa Karang	Radar Signatures and Ocean Color Response of Internal Wave-Wave Interactions Between the Lombok Strait and the Flores Sea
		I Wayan Gede Astawa Karang*, I Gede Hendrawan, I Made Dwita Krisnanda, I Gusti Bagus Sila Dharma, I Wayan Krisna Eka Putra, I Made Mahendra Wicaksana Karang, Jonson Lumban Gaol
ABS-54	Yonghan Jung	Utilizaing Drone Mapping Technology for Hazard Assessment of Steep Slopes
		Jung Y.H., Lim E.T., Koo S., Park J.W., Seok J.W., and Kim S.S.*
ABS-367	Wikan Jaya Prihantarto	Development of a Smart Agriculture Village Spatial Database through Remote Sensing-Based Geographic Voluntary Activity
		Wikan Jaya Prihantarto*, Muhammad Ismail, Randi Proska Sandra, Yusra Aprilia Putri, Ridho Al Farezi, Alan Kurniawan, Gatot Supangkat Samidjo


ROOM E (Blu Lemon) : E6 - Application of Remote Sensing
Session Chair : Prof. Kohei Cho

Code	Presenter	Title
ABS-144	Zahratunnisa	Integrated PS-InSAR and SBAS InSAR for Lava Dome Collapse Detection: Case Studies from Mt. Merapi
		Zahratunnisa *, Asep Saepuloh, I G. B. Eddy Sucipta
ABS-164	SITI NABILA SHAMSUL ANUAR	Mapping Cloud Seeding Potential Areas During Inter-Monsoon from MODIS Cloud Top Pressure
		Siti Nabila Shamsul Anuar, Rohayu Haron Narashid*, Tajul Rosli Razak
ABS-297	Heltin Genitha C	AI Enhanced Urban Microclimate Mapping Using Deep Learning Algorithms
		Dr. Heltin Genitha C*, Aashika Perpetual G, Mohanapriya K
ABS-324	Kohei Cho	Importance of Monitoring Sea Ice with GOSAT-GW/AMSR3
		Kohei Cho*, Kazuhiro Naoki, Misako Kachi, Rigen Shimada, and Josefino Comiso
ABS-355	Christine B. Mata	Predictive Ability of Delft3D-Based Storm Surge Forecasts Using Historical and Forecasted Typhoon Tracks
		Christine B. Mata, Clein Winslee Duquez, Olivia C. Cabrera, tristan Janryll A. Mata, Nathaniel R. Alibuyog
ABS-84	Muhammad Rakha Fadhila	Time-Series InSAR Monitoring of Ground Deformation along the Baribis Fault Using LiCSBAS
		Muhammad Rakha Fadhila, Dwi Lestari

ROOM F (Lontara) : F6 - Application of Remote Sensing
Session Chair : Prof. Nurjannah Nurdin

Code	Presenter	Title
ABS-300	Syazwi Qutbhi Al Azizi	Integrating Urban Mobility Analysis and Flood Risk Mapping: A Case Study in Ho Chi Minh City
		Syazwi Quthbi Al Azizi, Nurjannah Nurdin
ABS-302	Ma. Gloann Leizel P. Longboy	Assessing GSMaP Satellite-Based Precipitation for Runoff Modeling in a Data-Scarce Mountainous Basin: A Case Study of the Abra River Basin, Philippines
		Ma. Gloann Leizel P. Longboy, Nathaniel R. Alibuyog, Christopher Zamuco, and Rodel T. Utrera
ABS-308	Lois Anne B. Leal	Deriving Nighttime Light Metrics for Disaster Assessment Towards Area Prioritisation and Tracking
		Lois Anne B. Leal*, Juan Antonio Mari F. Carpio, Niel Mawen B. Getigan, Anne Moselle C. Rubio, Leonard Bryan B. Paet, Reinabelle C. Reyes
ABS-323	Rodel Tolosa Utrera	Mapping and Classification of Crystallization Ponds in Pangasinan Salterns Using LandSat Imagery for Salt Production Estimation
		Rodel T. Utrera, Nadine Sharinette R. Bravo, Julius Jonar L. Butay, Nathaniel R. Alibuyog and Lord Ian R. Galano
ABS-59	Wen-Hong Chen	Landslide Detection with U-net Based SAR2OPT Framework : A Case Study of 2024 Hualien Earthquake
		Wen-Hong Chen., Shou-Hao Chiang.
ABS-62	Anak Agung Adi Putra Wiguna Jaya	Mapping the 2024-2025 Lewotobi Volcano Eruption Dynamics Using Sentinel-1 InSAR and Optical Data
		Wiguna Jaya A.A.P.*, Harintaka Harintaka

ORAL PRESENTATION SCHEDULES

 **DAY 4 : October 30, 2025 | SESSION 3 (14.15 - 15.45 WITA)**

ROOM B (Maraja 1) : B7 - Application of Remote Sensing

Session Chair : Abhimanyu Kumar Gond

Code	Presenter	Title
ABS-16	Nain Dhaniarti Raharjo	LiDAR Applications in Structural Health Monitoring of Cable-Stayed Bridges: A Systematic Review
		Nain Dhaniarti Raharjo*, Lalu Muhamad Jaelani
ABS-263	Santika Tristi Maryudhaningrum	Land Subsidence Assessment Using the D-InSAR Method in Siak Regency, Riau, Indonesia
		Santika Tristi Maryudhaningrum*, Giri Bayuaji
ABS-270	Khin Myat Kyaw	J-GMS Sentinel-1 Based Ground Deformation Monitoring Across Japan for Infrastructure Risk Assessment
		Khin Myat Kyaw, Wataru Takeuchi
ABS-274	DR NURUL AIN MOHD ZAKI	Mapping Tree Crown Dynamics and Biomass Accumulation Using LiDAR-Derived Canopy Metrics
		Atikah Razaki, Nurul Ain Mohd Zaki*, Zulkiflee Abd Latif, Mohd Zainee Zainal, Hamdan Omar and Mohd Nazip Suratman
ABS-296	Wulan Salle Karurung	Assessment of Urban Heat Island Intensity and Key Drivers in Three Major Indonesian Cities Using Machine Learning
		Wulan Salle Karurung*, Lee Ki Rim, Lee Won Hee
ABS-318	Abhimanyu Kumar Gond	Data-Driven Mapping of Forest Cover Changes in Chhattisgarh, India (2000-2024) Using Google Earth Engine
		Abhimanyu Kumar Gond, Aarif Jamal, Tarun Verma,

ROOM C (Maraja 2) : C7 - Application of Remote Sensing

Session Chair : Fedri Ruluwedrata Rinawan

Code	Presenter	Title
ABS-88	YI-HSIN CHUNG	Stability Analysis and Case Study for Fire Smoke Removal of Sentinel-2 Satellite Images Using Fuzzy Classification
		Yi-Hsin Chung*, Yu-Wen Li and Li-Yu Chang
ABS-89	Guohong Li	Dissolved Oxygen Estimation in Freshwater Aquaculture Ponds from UAV Multispectral Imagery via Coupled Transfer Learning Strategies
		Wenxu Lv , Peng Cheng, Guohong Li *, Ruiyin Tang*, Yancang Wang *, Xuqing Li
ABS-94	Mukhamad Adib Azka	Multi-Satellite Detection and Analysis of the 2024 Mt. Lewotobi Eruption using Himawari-9 and Sentinel-5P
		Mukhamad Adib Azka*, Rif^at Darajat, Alpon Sepriando
ABS-95	Amihan Yson Manuel	Spatio-Temporal Variation of Diatom Blooms along the Singapore Coasts from Multispectral Imagery
		Amihan Yson Manuel*, Ryan Tan, Chenguang Hou, Soo Chin Liew, Chee Yew Sandric Loon
ABS-251	Pramet Kaewmesri	Modeling the Relative Risk of Air Pollution on Respiratory Health Using Remote Sensing Techniques in Chonburi Province, Thailand
		Pramet Kaewmesri, Chanika Sukawattanavijit, Kulapach Lhapawong, Phukrit Sriwilas
ABS-337	Fedri Ruluwedrata Rinawan	Seeing Health from Above: Remote Sensing and GIS Evidence for Bridging Primary Health Care Access Inequities
		Fedri Ruluwedrata Rinawan*, Salma Ziani Nazwa Mulyana, Fidya Meditia Putri


ROOM D (Marumpa) : D7 - Geospatial Data Integration
Session Chair : Andi Besse Rimba

Code	Presenter	Title
ABS-102	Bayulodie Vallianto	Synergizing Point-Based CCTV and Wide-Area Remote Sensing Intelligence for Adaptive Flood Monitoring in Bandung
		Bayulodie Vallianto*, Masahiko Nagai, Yusuf Cahyadi
ABS-103	Andi Besse Rimba	Assessing Economic Benefit of Climate Adaptation for Urban Flooding in the Colombo Metropolitan Area, Sri Lanka
		Andi Besse Rimba*, Ichiro Sato, Naho Yoden, Akiko Matsumura, Daiju Narita and Daikichi Oqawada
ABS-104	Andi Besse Rimba	Applying Google Earth Engine to Support Flood Policy Decisions in Makassar City
		Andi Besse Rimba* , Andi Arumansawang, I Putu Wira Utama, Saroj Kumar Chapaqain, Made Nia Bunqa, Geetha Mohan, Kuncoro Tequh Setiawan and
ABS-313	Agus Aris	Integrating Geospatial Data for Local Economic Planning: A Case Study of Culinary Businesses in the Coastal Area of Parepare City, Indonesia
		Aris A., Rasyid A.R. Mulyawan M.R., Yanaru., Jouhari M.I., SN S.A., Rahmat M.A.Z., Wibowo A.K. Aushaf S.T., Nurdin N.*
ABS-67	Nurul Hidayah Yahya	Bridging the Gap: Visual Evaluation of AI-Based Land Use Maps in Support of Local Development Planning
		Nurul Hidayah Y., Nurhaziyatul Adawiyah Y. and Norzailawati M.N.

ROOM E (Blu Lemon) : E7 - Application of Remote Sensing
Session Chair : Hammam Muhammad Amrullah

Code	Presenter	Title
ABS-194	MOHD FAIRUZ BIN FUAZI	Evaluating the Effectiveness of Planted Mangrove Forests Using Vegetation Indices and Land Surface Temperature: A Remote Sensing Approach in Bagan Nakhoda Omar, Malaysia
		Mohd Fairuz Bin Fuazi*, Wan Shafrina Binti Wan Mohd Jaafar
ABS-216	Agsha Dewantara	Application of LEI (Landscape Expansion Index) for Monitoring Flood-Prone Areas in Bekasi City in 2005, 2015, and 2025
		Agsha Dewantara*, Dinia Izza Rianti, Fauzi Fahmi, Shofura Afanin Nuha, Alfian, Hammam Muhammad Amrullah, Mellinia Regina Heni Prastiwi, Wanda Nelwita Pohan
ABS-219	Shofura Afanin Nuha	A Comparative Study of Machine Learning Classification Algorithms for Benthic Habitat Mapping in West Bali National Park
		Shofura Afanin Nuha *, Dita Amelia Pratiwi, Alfian, and Pramaditya Wicaksono
ABS-232	Hammam Muhammad Amrullah	Monitoring Flooded Areas in Bekasi City Using Sentinel-1 Backscatter Analysis
		Hammam Muhammad Amrullah*, Alfian, Mellinia Regina Heni Prastiwi, Wanda Nelwita Damayani, Fauzi Fahmi, Shofura Afanin Nuha, Agsha Dewantara, Dinia Izza Rianti
ABS-233	Hongjin KIM	Analysis of Patch Shapes in Dense Matching for Reducing Disparity Blurs in UAV Stereo Images
		Hongjin Kim, Taejung Kim*
ABS-369	NURFADILA JS	Revealing Bare-Soil Texture using GLCM and Multispectral Indicators: Applications to Sustainable Agricultural Land-Use Planning in Enrekang
		Nurfadila JS*, Syaeful Rahmat, Rismaneswati

ROOM F (Lontara) : F7 - Application of Remote Sensing

Session Chair : Sumarni hamid Aly

Code	Presenter	Title
ABS-121	Rizki Moch Rijaldi	Spatiotemporal Flood Characterization and Early Warning System Development in the Rokan Watershed Using Sentinel-1 SAR and Water Level Data
		Rijaldi R.M.*, Sidik R.F., Liyantono., Setiawan Y. and Faskayana Y.S.
ABS-223	Sumarni Hamid Aly	Analysis of PM10 and CO Air Quality Parameters Based on Satellite Imagery in The Cement Industrial Area
		Sumarni Hamid Aly *, A.Azizah Nurul Dinanti , Nurul Masyiah Rani Harusi, Ibrahim Djamaluddin, Poppy Indrayani, Hengky Pala^langan
ABS-224	Sumarni Hamid Aly	Analysis of CO Air Quality Parameters Based on Satellite Imagery in Makassar Metropolitan City
		Sumarni Hamid Aly *, Alisyah Ismi Zahra Mardan, Nurul Masyiah Rani Harusi, Mitani Yasuhiro, Khaerul Amru, Muhammad Rais Abidin
ABS-247	Dursun Zafer Seker	Spatial Analysis of Accessibility, Vegetation Density, and Equity of Urban Green Spaces: A Case Study of Esenyurt, Istanbul
		Tarik Emre Yorulmaz, Ugur Alganci, Dursun Zafer Seker
ABS-250	Rizal Attaqwa	Marine Heatwaves Study Based on Copernicus OSTIA L4 Satellite Derived Sea Surface Temperature and Geospatial Analysis in the Arafura Sea (1982-2024)
		Attaqwa R., Maulana A., Saputri A.D., Harini S.H.N., Ramadhan D.A., and Helmi M.
ABS-329	Xuan Truong Trinh	Integrating Multi-Scale Remote Sensing and Ground-Sampling to Map Seagrass Blue Carbon Stocks in Phu Quoc Island, Vietnam
		Xuan Truong Trinh*, Van Cong Doan, Quang-Loc Nguyen, Masahiko Nagai

ORAL PRESENTATION SCHEDULES

 **DAY 4 : October 30, 2025 | SESSION 4 (16.00 - 17.30 WITA)**

ROOM A (Maroa) : A8 - Application of Remote Sensing

Session Chair : Nabaraj Neupane

Code	Presenter	Title
ABS-131	Florence Galeon	Right of Way Acquisition Using Geospatial Technologies
		Florence Galeon
ABS-156	Rifqi Oktavianto	The Applications of Remote Sensing and GIS for Utilities Sector in Indonesia: Challenges and Opportunities
		Rifqi Oktavianto*, Very Fernando
ABS-188	LIANG ZHU	The Research on Landcover Change in the Qinghai-Tibet Plateau in China
		Liang Zhu, Bingfang Wu
ABS-348	Nabaraj Neupane	Mapping of Landslide Hazards Using Remote Sensing and GIS in Gandaki Province, Nepal
		Nabaraj Neupane*, Bikash Sherchan, Krishna Prasad Bhandari and Sujan Subedi
ABS-81	Bilguunmaa Myagmardulam	Validating AI-Based Depth Estimation for Road Scene Reconstruction Using Dashcam Images and Low-Cost LiDAR
		Bilguunmaa Myagmardulam, Kazuyoshi Takahashi
ABS-350	Dhimas Wiratmoko	Multi-Nutrient Mapping in Oil Palm Using Sentinel-2 and Random Forest: A Cost-Efficient Approach for Precision Agriculture
		Wiratmoko, D.* and Diana, S.R.

ROOM B (Maraja) : B8 - Application of Remote Sensing

Session Chair : Andang Suryana

Code	Presenter	Title
ABS-149	Yudi Setiawan	Characterizing Land Cover Change in Degraded Urban Watersheds through Temporal Dynamics Pattern Analysis
		Yudi Setiawan*, Kustiyo, Liyantono, Rizqi Fahma Sidik, Rizki Moch Rijaldi
ABS-153	Arif Kurnia Wijayanto	Multidimensional UAV-Based Assessment of Rice Bacterial Leaf Blight: Integrating Spectral, Textural, Thermal, and Spatial Features with Machine Learning
		Arif K Wijayanto *, Lilik B Prasetyo, Chiharu Hongo
ABS-252	Neisha Alfiza	Study of Internal Solitary Waves Characteristics Using Synthetic Aperture Radar Imagery and the Korteweg-de Vries Numerical Model in the South Andaman Sea
		Alfiza N., Gaol M.G.L., Putri K.M.A., Mahendra S.A.H., Zhafran M.L. and Helmi M.
ABS-28	Yung-Ching Yang	From Data to Information: Evaluating Attribute-Enriched Point Clouds for Accurate Urban Corner and Edge Measurement
		Yung-Ching Yang*, Yu-Yun Chen, Jen-Jer Jaw
ABS-31	Ching Lun Lin	Monitoring Slow Slip Events in the Nankai Trough Region Using PSInSAR
		Ching-Lun Lin, Chung-Pai Chang
ABS-74	Yu Xuan Zhan	Unmanned Aerial Vehicle-Based Carbon Sink Estimation in Bamboo and Urban Forests
		Zhan Y.X., Zhang Y.J. , Chen J.C. *, Wei C.H., Shiao Y. , Huang W.H. , Hsu I.N., Chang C.Y. , and Lai J.C.

ROOM C (Maraja 2) : C8 - Application of Remote Sensing
Session Chair : Chia-Hao WANG

Code	Presenter	Title
ABS-127	Chia-Hao WANG	Potential of SWOT Mission in Monitoring Taiwan Surface Water Dynamics Chia-Hao Wang*, Kuo-Hsin Tseng
ABS-135	Nada Kadhim	GIS-Based Land Suitability Analysis for Potential Solar Farms in Baqubah City Nada Kadhim
ABS-136	Nabila Kalsum Tuanany	Analysis of Watershed Morphometric Characteristics and Land Use Distribution in the Wae Batu Gantung Watershed Using Remote Sensing (GIS) Nabila Kalsum Tuanany - Emi Sukiyah - Boy Yoseph CSSSA
ABS-137	Muhammad Ismail	Utilization of Planetscope Imagery to Identify Distribution Green Open Space in Urban Area of Padang Muhammad Ismail, Wikan Jaya P., Elisa Maiyenti, Hendry Frananda, Rifai Mardin, Mutiara Amelia P., Juana Wangsa P., and Rehan Pramudiva Z.
ABS-358	Nabila Luthfiani	Tidal Flooding Assessment in Balikpapan Coastline using Modified Coastal Vulnerability Index (CVI) Nabila Luthfiani, Muhammad Aldila Syariz *
ABS-97	TASKIN KAVZOGLU	Deep Learning Based Semantic Segmentation and Explanability Analysis for Building Footprint Extraction Using High Resolution Remote Sensing Imagery Kavzoglu, T., Yilmaz, E.O., Teke, A.

ROOM D (Marumpa) : D8 - Geospatial Data Integration
Session Chair : Safri Burhanuddin

Code	Presenter	Title
ABS-105	Muhammad Daniel Iman bin Hussain	From Fixed to Automated Mirror Arrays: Advancing Multi-Satellite Image Registration Toward Operational Harmonization MUHAMMAD DANIEL IMAN BIN HUSSAIN *, MASAHIKO NAGAI , VAIBHAV KATIYAR
ABS-126	Syarifah Raihana Syed Zabidi	Optimizing Groundwater Conditioning Parameters for Groundwater Potential Mapping Using Random Forest in Klang and Langat River Basin Syarifah Raihana Syed Zabidi, Sharifah Norashikin Bohari *, Rohayu Haron Narashid, Rizauddin Saian
ABS-13	Shyue-Cherng Liaw	Predicting Landslide Susceptibility by Using Logistic Regression and Random Forest at Different Spatial Resolution in Taiwan Shyue-Cherng Liaw, Uen-Hao Wang and Wan-Jiun Chen
ABS-205	Hewa beddage Thilini Prathibani Jayathilaka	Urban Heat Exposure and Access to Cooling: A Network-based Analysis for Urban Green Space Accessibility in the Colombo Metro Region Area. Jayathilaka H. B.T.P*, Ranasinghe D.A.S.M., Shiyan Zhai, and Somasekara J.P.S.
ABS-212	Ilham Alimuddin	Mapping Landslide Vulnerability using Spatial Analysis of Weight of Evidences (WoE) in Central Mamuju, West Sulawesi Province, Indonesia Ilham Alimuddin*, Muhammad Ichsan, Cahyadi Ramadhan
ABS-360	Safri Burhanuddin	Spatiotemporal Analysis of Shoreline Dynamics in Makassar, Indonesia (1970-2025) Using Multi-Temporal Satellite Imagery and Historical Map Safri Burhanuddin, Hansan Park , Ilham Alimuddin , Achil Samad , Yazid Ridla , Indrawan Fadhil Pratyaksa , Iqbal Maulana Cipta , Dhiya Ulhaq Fathiyah , Sandiaga Swahyu Kusuma , Bau Ashary Nasir



ROOM E (Blu Lemon) : E8 - Application of Remote Sensing

Session Chair : Claire NICODEME

Code	Presenter	Title
ABS-118	Gatot Prayoga	XGBoost-Based Predictive Modeling Using Sentinel-2 Satellite Imagery and Empirical Data of Jakarta River Water Quality
		Rijaldi R.M. , Prayoga G. *, Faskayana Y.S. , and Firmansyah F.S.
ABS-170	Kurniawan Tjandra	Evaluation of Volcanic Cloud Top Height Retrievals Using Geostationary Satellite and Inversion Algorithm
		Tjandra, K.*, Mangla R. and Salinas, S.V.
ABS-244	Dursun Zafer Seker	Evaluating the Sensitivity of Spectral Indices for Detecting Waste Dumping Sites Using Sentinel Imagery
		Abdullah Harun Incekara, Dursun Zafer Seker
ABS-249	Dursun Zafer Seker	Drought Monitoring and Analysis Using Multi-Source Data and Machine Learning
		Abdullah Sukkar, Ozan Ozturk, Dursun Zafer Seker
ABS-353	Elysabeth Nindy Nasing	Assessing Water Access Inequality and Poverty in East Nusa Tenggara Using Remote Sensing Based Poverty Modeling
		Elysabeth Nindy Nasing*, Agung Budi Harto, and Anjar Dimara Sakti
ABS-354	Dr. Claire NICODEME	Contribution of Satellite Data for Renewable Energy
		Claire NICODEME

ROOM F (Lontara) : F8 - ISPSR Agriculture and Natural Ecosystem

“Discussing How Remote Sensing Can Contribute to Climate-Smart Agriculture and Forestry”

Speakers:

Francesco Pirotti: Introduction and activities in WG III/8

Megumi Yamashita: Remote Sensing for Climate Smart Agriculture

Mitsunori Yoshimura: Remote Sensing for Climate Smart Forestry

ORAL PRESENTATION SCHEDULES

 DAY 5 : October 31, 2025 | 08.45 - 10.15 WITA

ROOM A (Maroa) : A9 - Application of Remote Sensing

Session Chair : Dr. Hendra Pachri

Code	Presenter	Title / Author(s)
ABS-159	Muhammad Farooq Iqbal	Satellite-Based Monitoring of Land Subsidence in the Twin Cities of Pakistan Using Sentinel-1A SAR Data
		Muhammad Abid and Muhammad Farooq Iqbal
ABS-292	Sakina Hasan	Comparative Evaluation of NDWI, NDVI, MNDWI, AWEI and EWI for Sentinel-2 Shoreline Delineation in Klungkung, Indonesia: KDE-Valley vs Otsu Thresholding
		Sakina Hasan*, Abd Rahman As-syakur, Xuan Truong Trinh, and Masahiko Nagai
ABS-298	Hendra Pachri	Application of Remote Sensing Analysis for Shoreline Change as a Basis for Coastal Abrasion and Erosion Disaster Mitigation on the Selayar Limestone Formation, South Sulawesi Province Indonesia
		Hendra Pachri, and Zarwa Zashika
ABS-299	Dr. Muhammad Priyatna, S.Si., MTI.	Assessing the Impact of Land Use Change and Hydrological Interventions on Tidal Flooding in Eretan, Indramayu
		Priyatna. M.*, Khomarudin M.R., Nugroho G., Nugroho J.T., Riyanto B., and Prasetio W.
ABS-38	Shiori Kubo	Semantic Segmentation of Building Components from UAV LiDAR Point Clouds for Structural Analysis
		Shiori Kubo*, Daigo Meguro, Hidenori Yoshida
ABS-75	Huazhe Shang	Retrieval of cloud base height and cloud geometric thickness based on PARASOL oxygen A band
		Huazhe Shang

ROOM B (Maraja 1) : B9 - Application of Remote Sensing

Session Chair : Kyle Pierre Rodriguez Israel

Code	Presenter	Title / Author(s)
ABS-168	Kyle Pierre Rodriguez Israel	Contrasting Ecosystem Quality Outcomes: An Analysis Spanning Three Decades Across the Protected, Ancestral, and Reforestation Zones of the Maqbando Watershed, Occidental Mindoro, Philippines
		Kyle Pierre R. Israel, Kristina S.A. Cordero-Bailey
ABS-19	Lili Somantri	Analysiis of Environmental Criticallity Index (ECI) in Bandung Basin Using Remote Sensing
		Lili Somantri * Haikal Muhammad Ihsan
ABS-21	Tan Yan Eng	Cloud-Native Deployment of a Sinkhole Susceptibility Mapping Platform Using Google Earth Engine and Colab in Urbanised Karst Terrain
		Tan Yan Eng and Siti Nur Aliaa Roslan
ABS-276	Shindai Kanai	Land Use and Land Cover Change Analysis Following the 2025 Myanmar Earthquake
		Shindai Kanai*, Rin Owa, Ye Htet, Osamu Kozan
ABS-278	Wilson V. C. WONG	Monitoring Forest Structure Using UAS Photogrammetry in Tropical Forest Restoration Project
		Wong W.V.C.*, Ioki K. and Phua M.H.
ABS-284	Agus Aris	Dynamics of Seagrass Expansion During Dry and Rainy Seasons Using Planetscope Imagery and Machine Learning
		Agus Aris *, Nurjannah Nurdin, Supriadi Mashoreng, Eymal Bahsar Demmalino, Chair Rani, S H Aly


ROOM C (Maraja 2) : C9 - Application of Remote Sensing
Session Chair : Selenge

Code	Presenter	Title / Author(s)
ABS-189	Jean Rochielle Flores Mirandilla	Empirical Application of Polarimetric Synthetic Aperture Radar for Rice Phenology Monitoring in Irrigated and Favorable Rainfed Ecosystems Jean Rochielle F. Mirandilla*, Megumi Yamashita, Mitsunori Yoshimura
ABS-196	Husi Letu	Cloud, Atmospheric Radiation and Renewal Energy Application (CARE) shortwave cloud radiative forcing from Himawari-8 and FY-4A Husi Letu
ABS-238	ALDEA NOOR ALINA	Predictive Modelling of Mangrove Above Ground Biomass through the Integration of Spectral Indices and Field-Based Allometric Data Aldea Noor Alina*, Lalu Muhamad Jaelani, and Noorlaila Hayati
ABS-377	Selenge	Dust Monitoring in the Mongolian Gobi Desert Using the NDDIndex Tsolmon.R, Sonomdavga, Davaajargal.J
ABS-379	Masita Dwi Mandini Manessa	Multi-Condition Evaluation of Sentinel-1 for Rubber Canopy: Normal, Leaf-Fall, and Pestalotiopsis Outbreak Ariq Anggaraksa Riesnandar, Masita Dwi Mandini Manessa, Milla Putri Melina, Farida Ayu
ABS-366	Gs. Sr. Nur Hidayah Binti Zakaria	Urban Expansion and Carbon Footprint in Selangor: Remote Sensing and GIS Applications for Sustainable Cities and Climate Action Nur Hidayah Zakaria, Nur Atiqah Hazali, Siti Aekbal Salleh, Nurul Amirah Isa, Nini Nurdiana Johari, Arnis Asmat, Nurafiqah Wahid, Kamri Ahmad

ROOM D (Marampa) : D9 - Geospatial Data Integration D9 - Application of Remote Sensing
Session Chair : Sakorn Oumkrue

Code	Presenter	Title / Author(s)
ABS-161	Fareesha Irdeena Azman	GIS Characterization For Peatland Forest Fire Index Using GeoAI Technique Nadia Fitriana Rahimi, Fareesha Irdeena Azman, Aduwati Sali, Sheriza Mohd Razali
ABS-218	Andi Muhammad Tegar Juliarga Amrul	Redefining Compartment Boundaries in Lateritic Nickel Deposits through Integrated Geology and Geochemical Analysis Andi Muhammad Tegar Juliarga Amrul *, Ilham Alimuddin, Rohaya Langkoke, Musri Mawaleda
ABS-228	Sakorn Oumkrue	Predicting Landslide Risk in Post-Fire Zones of Northern Thailand Oumkrue, S.*, Rojanavasu, P., Chaiwongsai, J., Kantawong, K., Rachata, N., Deeprasertkul, P.
ABS-172	Soo Chin Liew	A Physics-Based Band-Ratio Algorithm for Methane Detection with PRISMA Satellite Data Liew S.C., Tan L., Salinas S.V.
ABS-208	Widyani Galih Pangersa	Investigation of Spatial and Temporal Trends in Lake Toba Water Level Based on ICESat-2 Data Widyani Galih Pangersa*, Ni Made Rai Ratih Cahya Perbani, Ir., M. Si
ABS-248	Alfian	Seagrass Percent Cover Mapping Around Teluk Terima Using Machine Learning for Blue Carbon Stock Estimation Alfian, M. Yozar Amrozi, Puji Rahmaini, and Pramaditya Wicaksono

ROOM E (Blu Lemon) : E9 - Application of Remote Sensing
Session Chair : Misheel Orgil

Code	Presenter	Title / Author(s)
ABS-220	Misheel Orgil	A Cloud-Based System for Monitoring Water Quality in Tuul River from Space Misheel Orgil*, Bolorchuluun Chogsom, and Zaya Chinbat
ABS-261	Bolorchuluun Chogsom	Calculating Forest Area Changes Using Different Machine Learning Methods Bolorchuluun Chogsom*, Zandanbat Tsog-Urnukh
ABS-262	Narandulam Naranbaatar	Estimating Ground Surface Vertical Displacement Using DInSAR Interferometry Narandulam Naranbaatar, Bolorchuluun Chogsom
ABS-330	Saruul Altankhuyag	An improved LOD3 through photogrammetry for generating digital twins Saruul Altankhuyag, Biguuntugs Tovuuuren, Bolorchuluun Chogsom
ABS-80	Antoine Masse	CoSIA and FLAIR-HUB: multi-source AI models for land cover mapping Bookjans E. , Garioud A., Marchand G., Vo Quang A., Dekeyne F. and Masse A.
ABS-344	Athar Abdurrahman Bayanuddin	Characterizing Burned Savanna Signatures from Sentinel-1 SAR Backscatter and H-Alpha Dual-Pol Decomposition: Case Study of the 2023 Bromo Fire Athar Abdurrahman Bayanuddin, Retnadi Heru Jatmiko, Nur Muhammad Farda

ROOM F (Lontara) : F9 - Application of Remote Sensing
Session Chair : Muhammad Faturrahman Wirasakti

Code	Presenter	Title / Author(s)
ABS-145	Trisnawaty AR	ANALYSIS AND MAPPING OF MANDOTI GLUTINOUS RICE GROWTH IN SALUKANAN VILLAGE, BARAKA DISTRICT, ENREKANG REGENCY USING GOOGLE EARTH ENGINE (GEE) Trisnawaty AR*, Rinaldi Sjahril, Muh. Riadi, Nurlina Kasim, Rafiuddin, Aswar Anas
ABS-290	Mochamad Iqbal Herwata Putra	Integrating Remote Sensing and Satellite Tracking to Unveil Whale Shark Spatial Ecology in the Dynamic Indo-Pacific Oceans Mochamad Iqbal Herwata Putra*, Anindya Wiasatriya, Abraham Sianipar, Ismail Syakurachman , Abdi Hasan, Edy Setyawan , Mark V. Erdmann , Jatna Supriatna , Masita Dwi Mandini Manessa
ABS-304	Dr. Vimalathitthan Shanmugam	Seagrass Meadow Mapping in the Bay of Bengal Using Machine Learning and Remote Sensing Lingeswaran A, Melvin Fredrick J.S, Vimalathitthan Shanmugam* and Lathaselvi G
ABS-311	Aswar Anas	Spatio-Temporal Modeling of Macroalgae Biomass and Alginate Content Using High-Resolution Satellite Imagery: A Case Study of Pannikiang Island, South Sulawesi Aswar Anas*, M. Akbar AS , Agus Aris , Nurjannah Nurdin
ABS-321	Urmi Sharma	Urban Growth Dynamics Using Cloud-Based Geospatial Analysis in Google Earth Engine: Udaipur, India Dr. Urmi Sharma
ABS-9	Muhammad Faturrahman Wirasakti	Analysis of Ground Movement Event in Brebes Regency on April 17 2025, Using the DInSAR Method with SNAP Desktop M. Faturrahman Wirasakti, Irghan Santiz R.A, S.T



POSTER PRESENTATION

October 28, 2025 | Room B (Maraja 1) | 11.30 - 12.30 WITA

Topic / Code	Presenter	Title / Author(s)
Topic A: General Remote Sensing		
ABS-143	Lasriama Siahaan	Accuracy Assessment of Andaliman (Zanthoxylum acanthopodium) Growth Suitability Using Google Earth Engine and Presence Data Lasriama Siahaan
Topic B: Applications of Remote Sensing		
ABS-207	Donggyu Kim	Cloud-Free Sentinel-2 Mosaic Generation for the Republic of Korea Donggyu Kim, Seungchan Lee, Chuluong Choi
ABS-254	Sungjoo Yoon	Evaluation of the Usability of Geostationary Satellite Images for Gap Filling of Polar Orbiting Satellite-based NDVI Sung-Joo Yoon, Han-Sol Ryu, Jinyeong Kim, Tae-Ho Kim *
ABS-372	Danil	Spectral Reflectance Characteristics of Seagrass and Brown Algae (Phaeophyceae) in Barrang Lombo Island, Sangkarrang District, Makassar, South Sulawesi Danil
ABS-112	Silmi Afina Aliyan	Evaluating the Impact of Surface Deformation on Building Damage During the 2022 Cianjur Earthquake Using Remote Sensing Silmi Afina Aliyan*, Mochammad Rifqi Naufal Alfayyadh, Jupri
ABS-117	Samar Youssef Sayed Mohamed	Tree Height Estimation Using Sentinel-1/2 and LiDAR Data: A Case Study in the Dalseong Wetlands, South Korea Baek, G.H., Mohamed, S.Y., Jang, H.K. Park, H.S., Choung Y.J., and Jo M.H.*
ABS-123	Tarisa Fadilah	Thermal Mapping and Land Cover Correlation for Heat Island Mitigation in Jombang Regency Using Remote Sensing Data Tarisa Fadilah, Luisa Febrina Amalo
ABS-154	lei zhang	Optimal multi-scale segmentation for residential pattern detection Lei zhang
ABS-169	SeungChan Lim	Analysis of Focal Length Variations by UAV Fligth methods and Oblique Imagery Effects Seungchan Lim., Dongyu Kim., and Chuluong Choi.*

Topic / Code	Presenter	Title / Author(s)
ABS-171	Murni Sulastri	Landslides Controlled Structural Geomorphological Activity on the Lembang Fault, West Java, Indonesia Murni Sulastri*, Imam A. Sadisun, Adang Saputra, Asep Mohamad Ishaq Shiddiq and Asti Gindasari Masse
ABS-187	Akhmad Haris Karsena	Integrating Meteorological and Remote Sensing Geospatial Data for Forest Fire Risk Modelling in East Kalimantan Akhmad Haris Karsena*, Tang-Huang Lin
ABS-24	Adang Saputra Adang	Remote Sensing-Based Interpretation and Analysis of Hydrothermal Alteration Zones in Mount Patuha and Surrounding, Bandung Regency, West Java Adang Saputra*, Denny Lumban Raja, and Murni Sulastri
ABS-277	CHEOLWOOK KIM	Camera Position Estimation with a Limited Number of Known Landmarks Kim C.W., Yi S.U., Yoon W.S., and Rhee S.A.*
ABS-281	Rizka Maharani	Optimizing PlanetScope-Based Satellite-Derived Bathymetry: A Single-Band Approach with 3D Spatial and Statistical Filtering Rizka Maharani, Fahreza Okta Setyawan, Sarono*
ABS-286	Sarono	Modeling Aboveground Biomass Using Non-Redundant Vegetation Indices from PlanetScope Imagery via Multiple Linear Regression in Planted Forests Sarono*, Erna Kurniati
ABS-287	Syazwi Qutbhi Al Azizi	Identifying Priority Areas for Nature-based Solutions to Mitigate Urban Flood Risk Using Blue-Green Infrastructure in Parepare City, Indonesia Syazwi Quthbi Al Azizi
ABS-320	Alfarabi Imashev, Nurali Khamitov	Assessing the performance of recognized ML approaches on remote sensing data for sowing progress detection in Kazakhstan Alfarabi Imashev*, Nurali Khamitov
ABS-42	Silmi Afina Aliyan	Remote Sensing-Based Analysis of Potential Epithermal Gold Mineralization in the Sunda Arc Region of Bogor Regency Silmi Afina Aliyan*, Nikolas Anggi Putra Panjaitan, Shafira Himayah
ABS-47	eita uotani	Verification of the effect of UAV shooting altitude on detection accuracy in asphalt crack detection using deep learning Eita Uotani, Mitsuharu Tokunaga
ABS-50	Luisa Febrina Amalo	Temporal Assessment of Mangrove Restoration Success Using NDVI from Remote Sensing Data (2021-2023) Luisa Febrina Amalo*, Luluk Dwi Wulan Handayani, Marfian Dwidima Putra

Topic / Code	Presenter	Title / Author(s)
Topic C: Emerging Technologies in Remote Sensing		
ABS-192	Bhawna Pathak	Automated Glacial Lake Mapping in the Himalayas: An Ensemble Multi-Sensor Approach with Random Forest and High-Resolution PlanetScope Imagery Bhawna Pathak , Ankit Singh, Dericks P. Shukla
ABS-204	Seo Jin Kong	A Study on Improving Water Body Detection Accuracy in CAS500-1 Satellite Imagery Using Deep Learning Seo Jin Kong, Wonwoo Seo, SooAhm Rhee*
ABS-22	Yi-Keng Chen	Automated Monitoring of Floating Roof Oil Tanks Using High-Resolution SAR Imagery and Computer Vision Techniques Yi-Keng Chen*, Zheng-Shin Su, Shu-Wei Chang , Jen-Yu Han
ABS-163	Tee-Ann Teo	Automated Road Marking Extraction from High-Resolution Aerial Imagery Using Deep Learning Techniques Tee-Ann Teo, Ting-Ni Chen
Topic D: Geospatial Data Integration		
ABS-177	Ochirkhuyag Lkhamjav	Accuracy Assessment of Sentinel-1 SAR-Derived DEMs: Comparative Analysis with SRTM and ALOS References Ochirkhuyag Lkhamjav, Fuan Tsai*
ABS-376	Silmi Afina Aliyan	Morphotectonic Evaluation and Land Surface Deformation Changes in the Western Segment of the Lembang Fault Silmi Afina Aliyan*, Totok Doyo Pamungkas Fikri Algifahri1 Rafi Adyatma Melani Kartika Sari
ABS-113	Geonseok Lee	Depth Prediction-Based Enhancement of Feature Matching in Urban Drone Imagery Geonseok Lee, Junhee Youn, Kanghyeok Choi*
Topic E: Sustainable Development Goals		
ABS-17	Yusrizal	Geostatistics of Soil Organic Carbon over Peatlands with Productive Oil Palm Crops Yusrizal, Budi Mulyanto, Heru Bagus Pulunggono and Bambang Hendro Trisasongko
ABS-27	Cheah Wei Chee	Enhancing Flood Resilience: A GIS-Based Analysis of Evacuation Centre Site Suitability Cheah Wei Chee, Nurul Ashikin Bte Mabahwi
ABS-317	Prita Ayu Permatasari	Urban Lakeshore Microclimate Regulation in Jakarta: Land Surface Temperature Insights from Landsat 8 Prita Ayu Permatasari, Gatot Prayoga, and Luisa Febrina Amalo
ABS-352	Mohammad Azhar Shauqy	Integrated Planning of River Transport and Ecotourism Development Along the Tallo River Corridor, Makassar, Indonesia Mohammad Azhar Shauqy, Arif Fuddin Usman, Henny Haerany

POSTER PRESENTATION

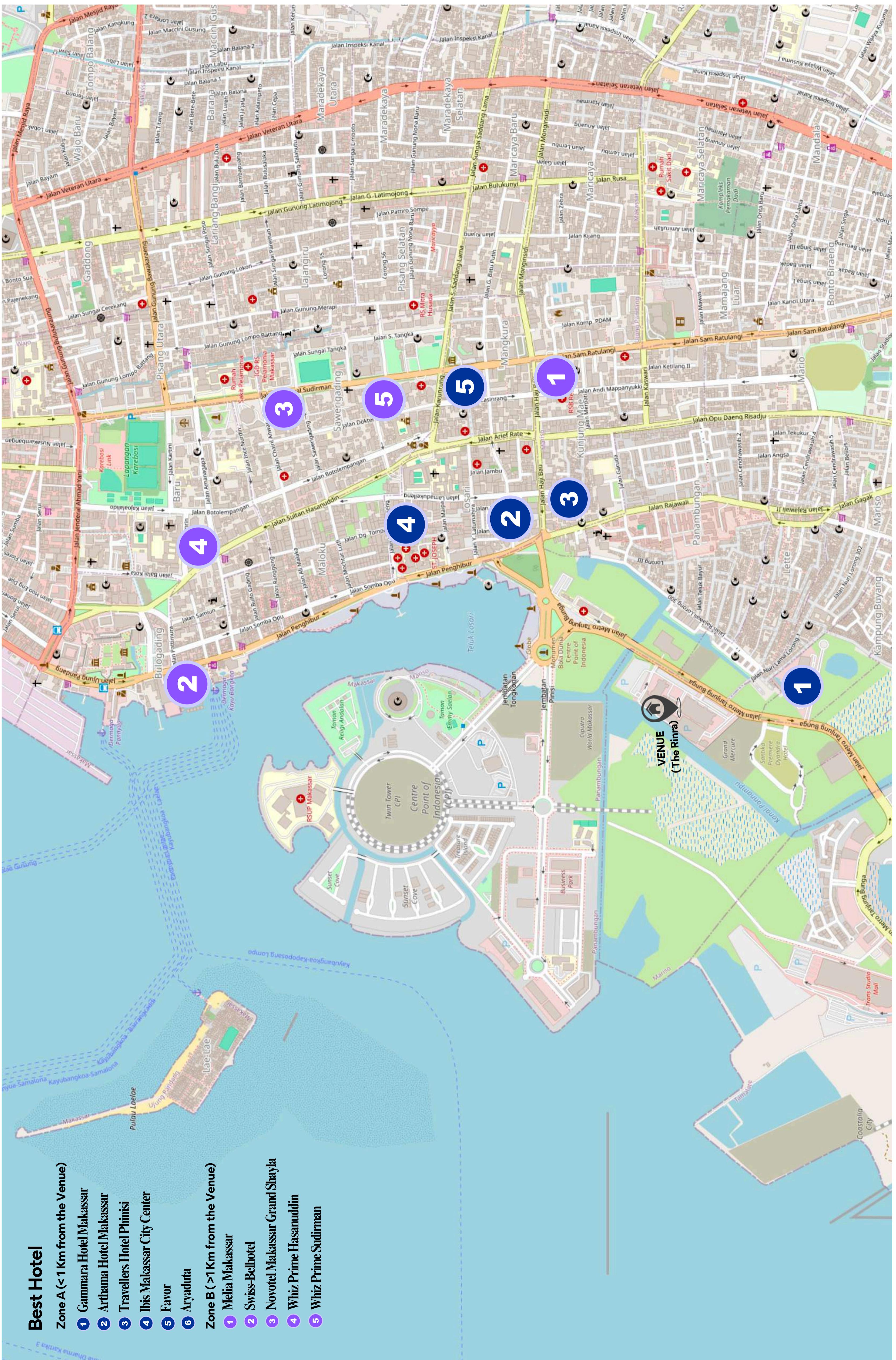
📅 October 30, 2025 | Room B (Maraja 1) | 13.15 - 14.15 WITA

Topic/Code	Presenter	Title
Topic A: General Remote Sensing		
ABS-167	Amri Rasyidi	Evaluating the Reliability of Super-Resolution Satellite Imagery for Infrastructure Mapping: A Comparative Study of AI-Enhanced Sentinel-2 and High-Resolution Drone Imagery Amri Rasyidi*, Yanuar Adji Nugroho
ABS-210	MASASHI SONOBE	Characteristics of texture index of damaged buildings using time-series high-resolution satellite images for the 2024 Noto Peninsula earthquake Masashi SONOBE
ABS-215	Dipo Andimuharrom	Natural Light Diffusion for Aerial Photography: An Optical Strategy to Improve Image Clarity in Tropical Region Dipo Andimuharrom*, Asep Adang Supriyadi, Doddy Mendro Yuwono, Putro Nugroho
ABS-351	Rini Anggraini	Using Remote Sensing for Mapping Land Use/Land Cover of The City of Baubau, Southeast of Sulawesi Rini Anggraini, S Baja, R Neswati
ABS-361	Muh. Azriel Putra Rizal	Mapping the Dynamics of Vegetation Density Using the NDVI Index in Palopo City (2019-2023) Muh. Azriel Putra Rizal
ABS-98	Yusuke Ito	Enhancing Visual SLAM Accuracy in Low-Light Environments via Image Enhancement Techniques Yusuke Ito, Masayuki Matsuoka*
Topic B: Applications of Remote Sensing		
ABS-115	Shota Tsujino	A Preliminary Study on Remote Sensing-Based Detection of Vacant Houses in Urban Areas Shota Tsujino*, Kiichiro Kumagai, Kazuki Hatao
ABS-134	Hina Tachikawa	Enhancing Interpretability in Landslide Detection: A U-Net Based Framework with Uncertainty-Aware Classification Hina Tachikawa*, Yuki Mizuno, Naoyoshi Hirade, Kenlo Nishida Nasahara and Taro Uchida
ABS-183	Jayra Emeryl Blanche	Assessment of Geostationary Environment Monitoring Spectrometer (GEMS) Tropospheric NO₂ Measurements Using Ground-Based Pandora Instrument in Quezon City Jayra Emeryl Blanche*, Ellison Castro, Ma. Angelica De Hitta, James Cesar Refran, Jeniffer De Maligaya
ABS-240	TAEHO KIM	Development of a Smart Coastal Environment Management System in Incheon Using Remote Sensing and AI-based Analysis of Marine Debris Distribution Jeon H., Cho H., Jang S.T., Yoon D.H., Choi K.S., Lee S.W., Kim T.H.

Topic/Code	Presenter	Title
ABS-253	Vincent Cletus Wiso	A Deep Learning Approach for Remote Sensing Based Estimation of PM2.5 in Urban Areas: A case study of Greater Taipei Area Wiso V.C.* , Hsuan Ren., Lin T.H.
ABS-29	Kazuyoshi Takahashi	Development of a Low-Cost LiDAR-Based Vehicle-Mounted MMS for Road Snow Monitoring in Winter Conditions Kazuyoshi Takahashi, Takeshi Nakamura
ABS-30	Takeshi Nakamura	Monitoring Snowbanks along Highways Using a Low-Cost Vehicle-Mounted Mobile Laser Scanning System Takeshi Nakamura*, Takeshi Furukawa, Ryo Arakawa, Yukinobu Sugihara, Seiji Kamimura, Kazuyoshi Takahashi
ABS-316	Christine Marie V. Oca	Assessment of the 2023-2024 El Nino-Driven Drought Impacts in the Philippines Using a Satellite-Based Combined Drought Index (CDI) Michael Angelo Valete*, Christine Marie Oca, Dhann Collin Davies Vergara, James Cesar Refran, Gay Jane Perez
ABS-332	Syaeful Rahmat	Flood Identification Using Sentinel 1 SAR Imagery in Bila Walanae Watershed Syaeful Rahmat*, Sigit Herlambang Asmorojati, Andang Suryana Soma
ABS-5	Battuya Sanjaakhand	MAPPING FOREST IN DARKHAN-UUL PROVINCE, MONGOLIA THROUGH SENTINEL-2 SPECTRAL INDICES Bayanmunkh Norovsuren, Ochirkhuyag Lkhamjav, Tsolmon Altanchimeg, Ulziisaikhan Ganbold, Bayarmaa Enkhbold, Gankhuyag Purev, Tserennadmid Bataa, Battuya Sanjaakhand*
ABS-61	Akari Yamaguchi	Topographical and Geological Controls on Shallow Landslide Movement Types Identified by Satellite Imagery YAMAGUCHI, Akari*, SATO, Go Tran The Viet, Nguyen Van Thang
ABS-60	Chang Kuan Tsung	Integration of Topobathymetry Mapping Techniques for Siltation Monitoring in the Reservoir Hanafie A., Zahra Z. A., Huang W. Y. and Chang K.T.
Topic C: Emerging Technologies in Remote Sensing		
ABS-235	Seunghee Kim	Comparison of Histogram Matching Preprocessing Methods for Generating Natural GOFC-II Full Disk Images Kim, S., Song, S. and Rhee, S./*
ABS-237	Song, S.H.	Development of An Automated Satellite Image Collection and Processing System for Image Utilization Song, S.H., Jeong, Y.J. , Kim, S.W., Jeong, S.W., Kim, T.J.
ABS-53	Wang, Muzi	Research on the Construction Method of 3D Tree Model Based on Laser Point Cloud and Tree Radar Zhang, Ruiling Wang, Muzi Dong, Youqiang Wang, Xinhao Yin, Keru

Topic/Code	Presenter	Title
ABS-64	Gerald Obalim	Enhancing Unpaved Road Condition Monitoring in Uganda Using Smartphone Imagery and Deep Learning Gerald Obalim *, Mitsuharu Tokunaga
ABS-378	Inuwa sani Sani	Spatio-Temporal Dynamics of Precipitation Anomalies in Southeast Asia: ENSO Influence and Machine Learning-Based Prediction Inuwa S.S*, Dimyati M., Masita D.M.M. and Hafid S.
Topic D: Geospatial Data Integration		
ABS-119	Ayano Shiraishi	Spatial Variation of Local Population in Inducement Areas under Urban Shrinkage Ayano Shiraishi*, Kichiro Kumagai*
ABS-294	Putu Abel Nugraha Ardyan	Integrating Multi Sensor Satellite Data for Urban Heat Island and Vegetation Dynamics Analysis in Bali Putu Abel Nugraha Ardyan*, Redondo
ABS-305	Azzaya Byambajav	Evaluating Urban Accessibility within the 20-Minute City Framework Using GIS: The Case of Ulaanbaatar, Mongolia Azzaya Byambajav
ABS-347	Prakriti	Airshed-Based Source Apportionment of Delhi Air Pollution Using WRF-Chem and Back Trajectory Analysis Prakriti*, Asfa Siddiqui, Hareef Baba Shaeb Kannemadugu, Gokul R Kamath, Raghavendra Pratap Singh, Prakash Chauhan
ABS-364	Difnu Topan	The implementation of Digital Transformation in Urban Housing Management: a case study in Purwakarta Regency, Indonesia Difnu Topan
ABS-37	Mali Shadrack Paul	Fusing Sentinel-1 and Sentinel-2 Data in Google Earth Engine for Road Infrastructure Mapping in Data-Scarce and Conflict Environments Mali Shadrack Paul, Mitsuharu Tokunaga
ABS-373	AULIYA APRILIA	Analysis Of Slope Stability Level Using Kinematic Analysis Method And Slope Mass Rating Method At PT. MDA, Luwu Regency, South Sulawesi Province Auliya Aprilia, Prof. Dr. Ir.. Busthan Azikin, M.T, Ilham Alimuddin, S.T., M.Gis, Ph.D., Dr. Eng. Hendra Pachri, S.T., M.Eng
Topic E: Sustainable Development Goals		
ABS-100	Nur Azizah	Estimation of Rice Productivity in South Sulawesi, Indonesia Using Meteorological Data Nur Azizah, Masayuki Matsuoka*

MAKASSAR HOTEL MAP



HOTEL



No	Hotel Name	Address	Range to Venue	Rate Price	Contact Booking
1	<u>The Rinra Hotel</u>	Jl. Metro Tj. Bunga No.2, Panambungan, Kec. Mariso, Kota Makassar, Sulawesi Selatan 90121	Converence Venue	START FORM IDR 1.200.000	+62 0851 46410656
2	<u>Gammara Hotel</u>	Jl. Metro Tanjung Bunga, Kp. Buyang, Kec. Mariso, Kota Makassar, Sulawesi Selatan 90121	500 m	START FORM IDR 990.000	+62 811 418277
3	<u>Aryaduta Hotel</u>	Jl. Somba OPU No.297, Losari, Kec. Ujung Pandang, Kota Makassar, Sulawesi Selatan 90111	2 km	START FORM IDR 802.000	+62 811 41707555
4	<u>Arthama Hotel</u>	Jalan Haji Bau No.5 Mangkura, Jl. H. Bau No.05, Losari, Kec. Ujung Pandang, Kota Makassar, Sulawesi Selatan 90113	1.4 km	START FORM IDR 1.000.000	+62 0851 46410656
5	<u>Aston Makassar Hotel & Convention Center</u>	Jl. Sultan Hasanuddin No.10, Baru, Kec. Ujung Pandang, Kota Makassar, Sulawesi Selatan 90111	3.4 km	START FORM IDR 850.000	+62 851 46410656
6	<u>Swiss-Bell Hotel</u>	Jl. Ujung Pandang No.8, Bontoala, Kec. Makassar, Kota Makassar, Sulawesi Selatan 90111	3.9 km	START FORM IDR 800.000	+62 0851 46410656

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GEOPARK TRIP

MAROS-PANGKEP NATIONAL GEOPARK



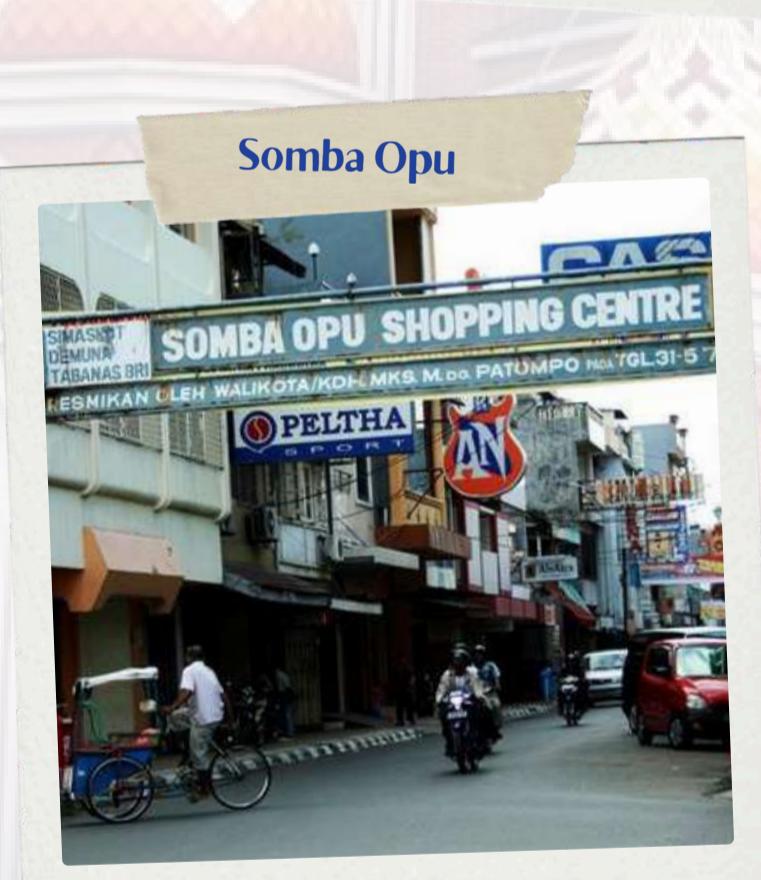
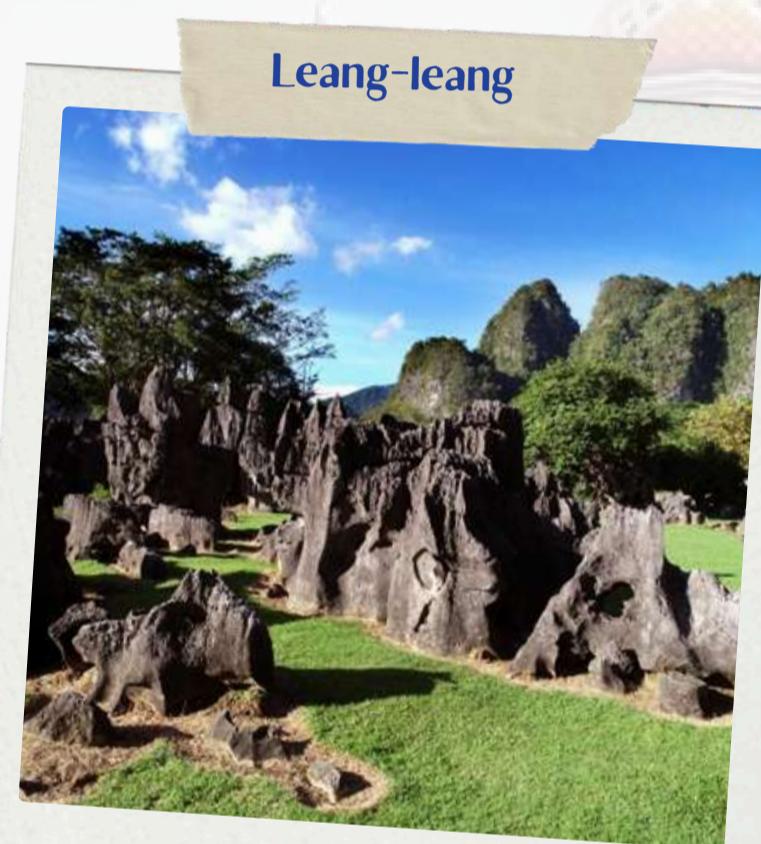
Discover the Maros Pangkep National Geopark, an aspiring UNESCO Global Geopark in the heart of South Sulawesi. Spanning the two regencies of Maros and Pangkep, this vast region protects a spectacular dual landscape: 223,629 hectares of stunning karst terrain on land and 88,965 hectares of the pristine Spermonde Islands at sea. Explore this world-class heritage through a network of trails leading to 29 key geological sites (geosites)—13 in Maros and 16 in Pangkep—each showcasing the unique story of our planet.

ACRS 2025 ITINERARY TRIP



GEOPARK TRIP

MAROS-PANGKEP NATIONAL GEOPARK



07.30
08:30 - 09:15
09:15 - 10.15
10.15 - 11:00
11.00 - 11.15
11.30 - 12.30
12:30 - 14:00
14.30 - 15.30
15:30 - 17:00
17.00 - 18.00

Departure from The Rinra Hotel

All participants gather in the hotel parking lot

Scenic tour along the river

Arriving at Dermaga 1. We will line up to get boats for a scenic tour along the river with sightseeing of the karst formations

Explore Rammang-Rammang Karst Village

Upon arrival at Dermaga 3, explore Kampung Berua, a hidden gem nestled amidst towering karst formations, where cultural encounters and breathtaking natural beauty await

Return to dermaga 1

All participants gather in Dermaga 3, line up to get boats to return to Dermaga 1

Travel to Leang-Leang Archeological Park

Short journey from Rammang-Rammang to the Leang-Leang prehistoric site.

Explore Leang-Leang

A guided visit to the prehistoric caves to see ancient hand stencils and the local museum.

Lunch

Leaving to Makassar

Leaving Leang Leang and heading back towards Makassar's shopping area.

Shopping at Somba Opu

Arriving back in Makassar to explore the famous Somba Opu street for souvenirs, gold, and coffee.

Return to The Rinra Hotel

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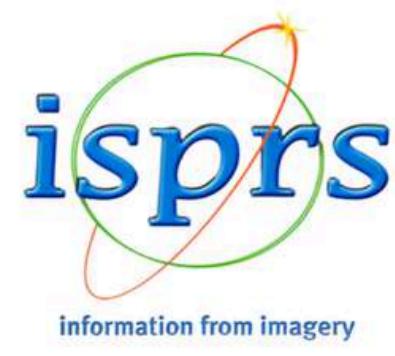
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Requirements

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- Student
- Copy Of ID/Passport
- Motivational Letter (150-500 words)

Important Date

Registration Document Verification
21 October - 25 October 2025

Final Announcement
26 October - 27 October 2025

Main Event
1 November - 5 November 2025

DATE

1 November - 5 November 2025

PARTICIPATION FEE

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Location



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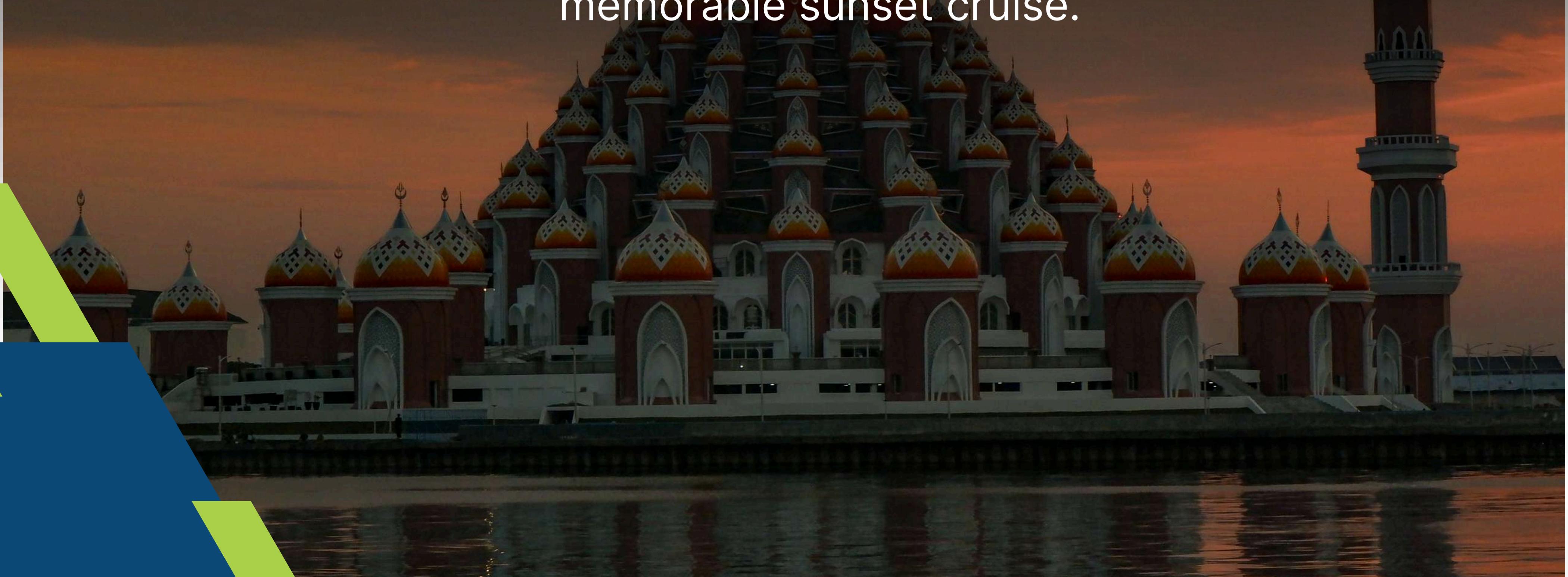


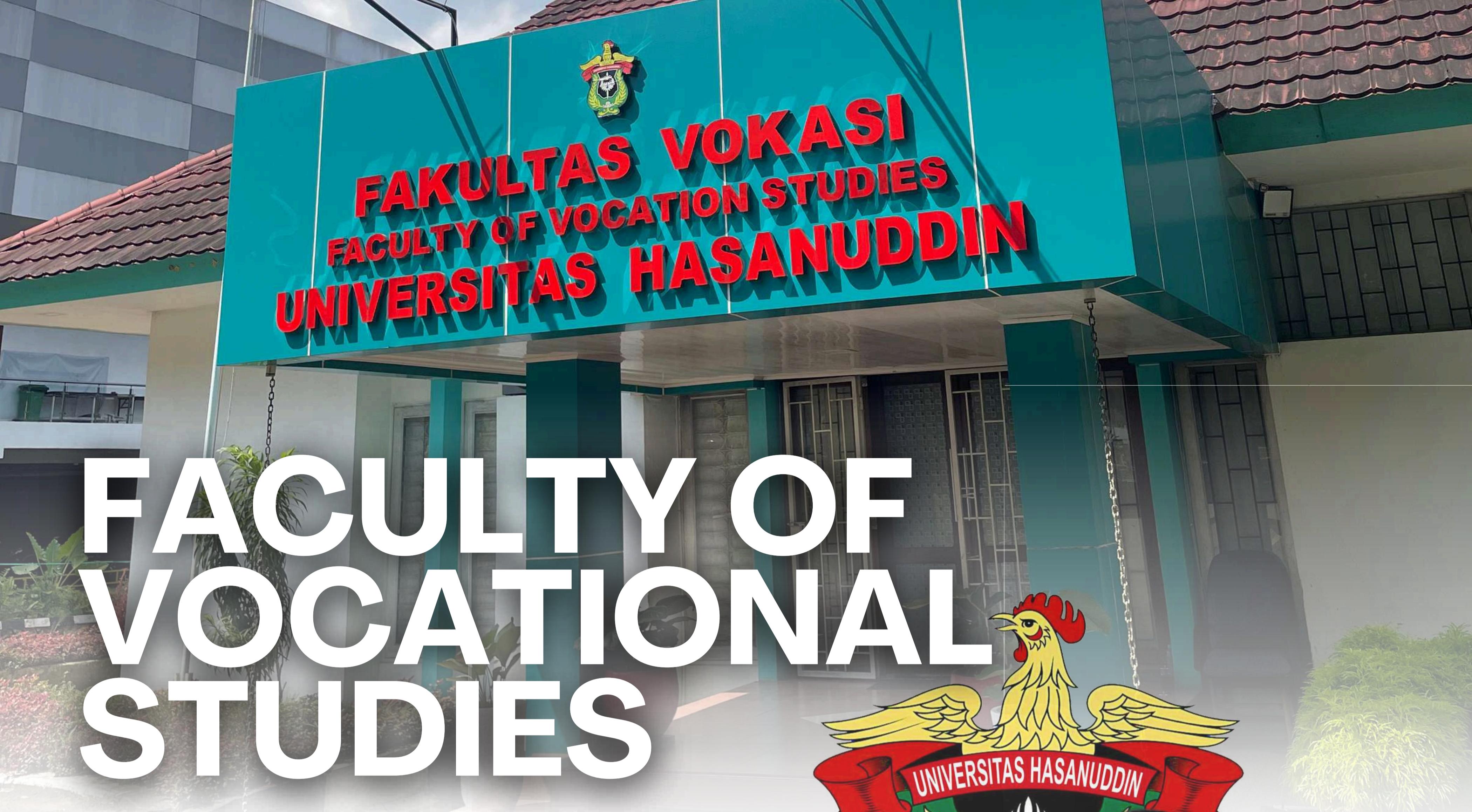
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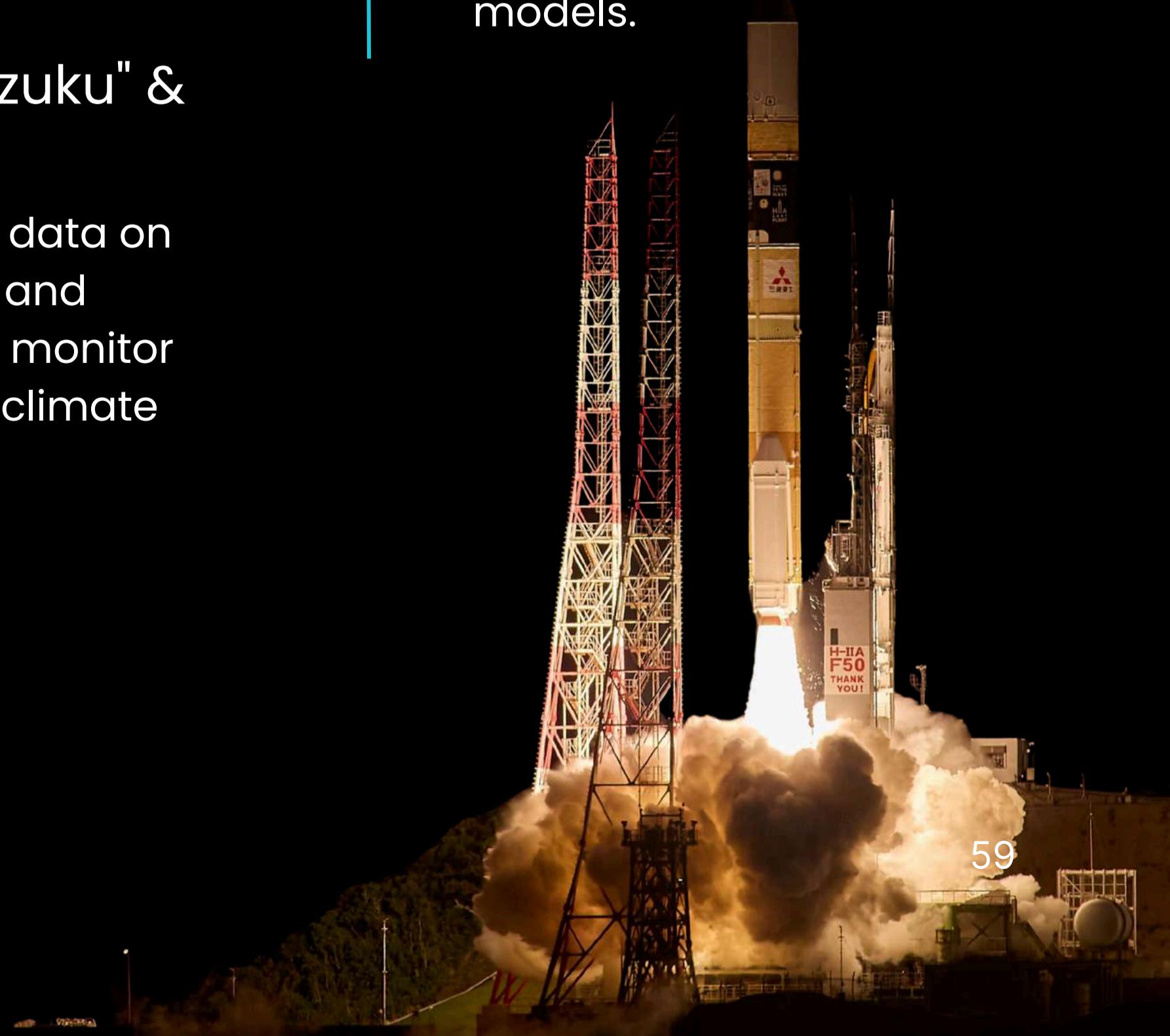
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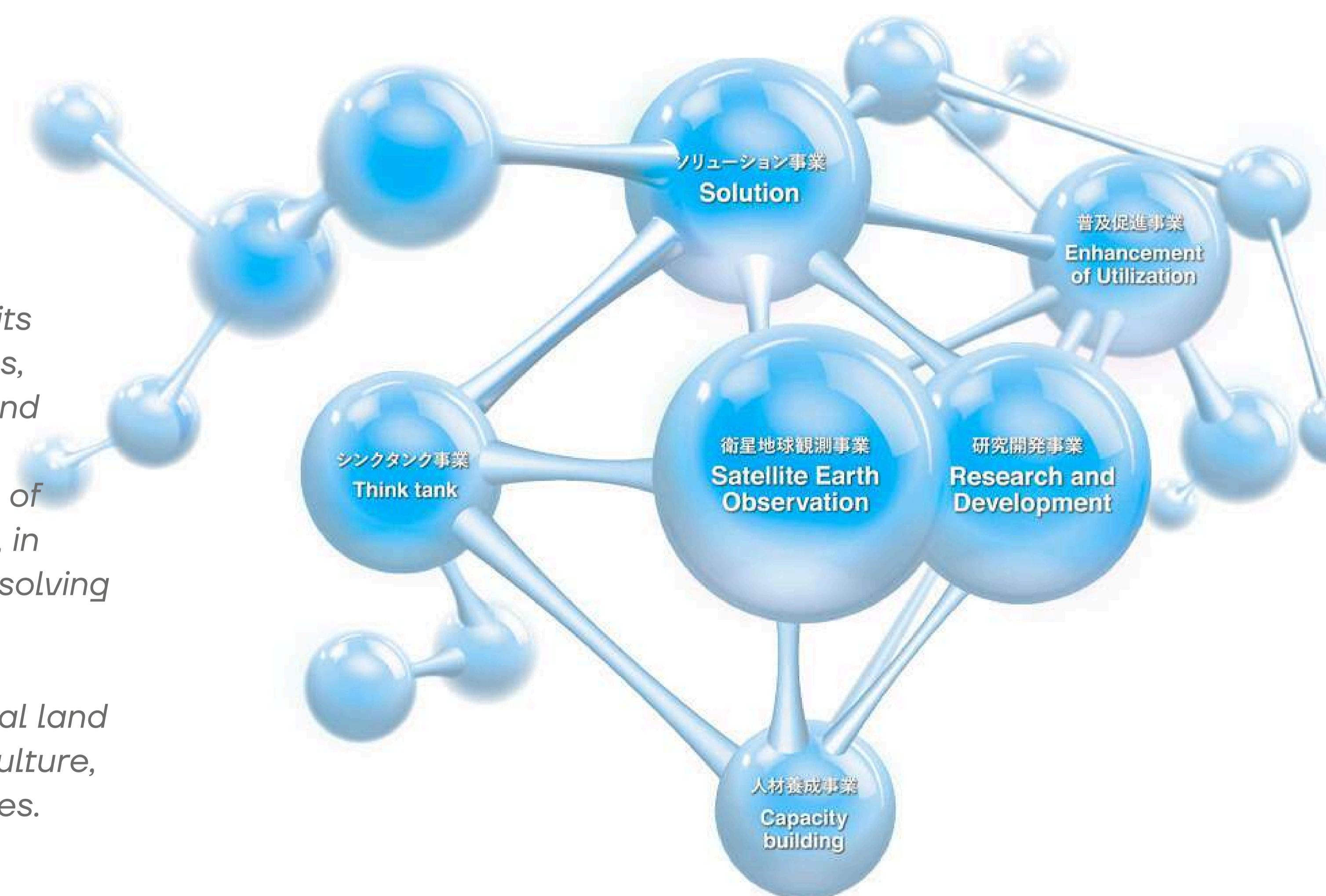
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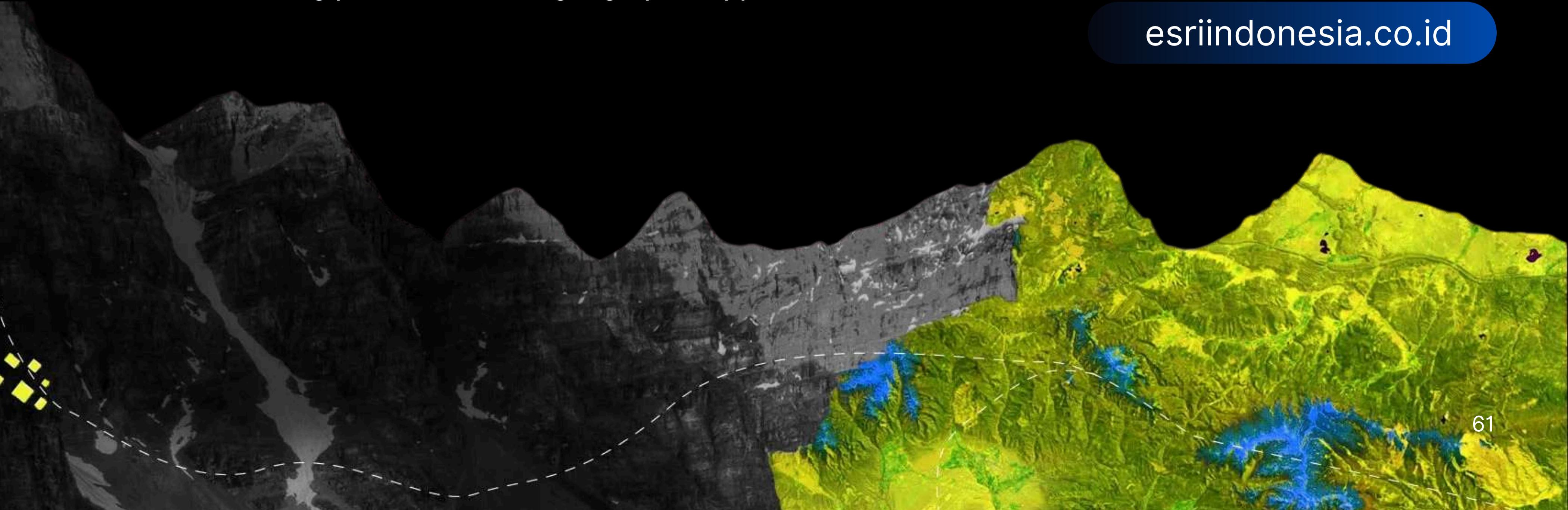


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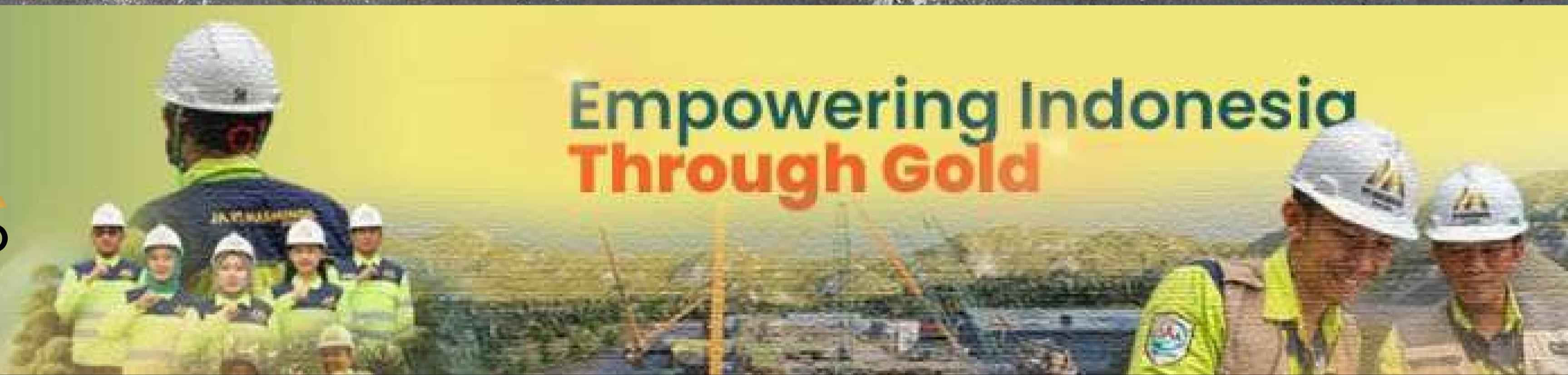


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