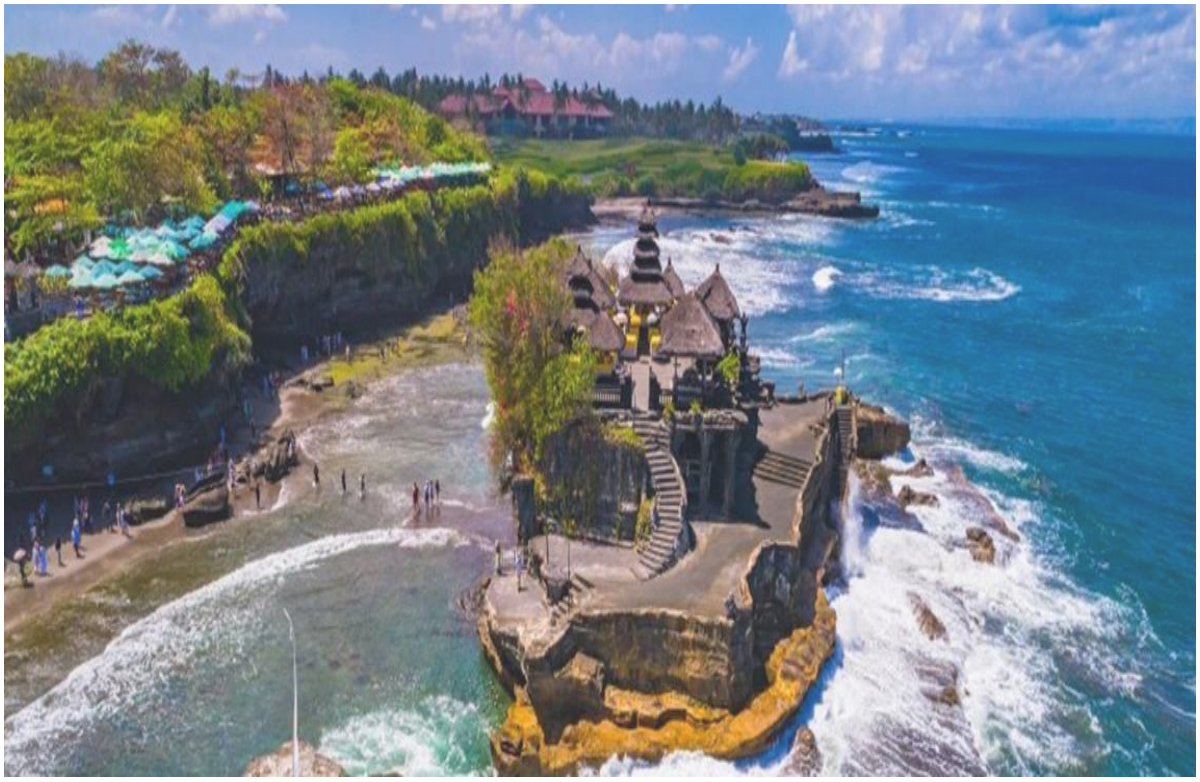

ISIITA 2026

International Symposium on Innovation in Information Technology and Application

PROGRAM

Bali, Indonesia
Jan. 26-29, 2026.

Organized by
International Society for Information Technology and Application (ISITA)
Journal of Industrial Information Technology and Application (2586-0852)
Journal of Industrial Electronics Technology and Application (2635-635X)

WELCOME ADDRESS

Welcome to 2026 International Symposium on Innovation in Information Technology and Application

A sincere welcome awaits all visitor.

As we entered the 21st century, the rapid growth of information technology has changed our lives more conveniently than we have ever speculated.

Recently in all fields of the industry, heterogeneous technologies have converged with information technology resulting in a new paradigm, IT convergence, and people have been breaking the limit and finding other possibilities of IT research and development through converging with various industries and technologies.

The goal of this conference is to discover a new progressive technology by upgrading the previous technologies and to solve the technical problems that may have occurred in the process of converging technology in various fields of industry.

The International Symposium Innovation in Information Technology Application (ISIITA) 2026, the world's premier networking forum of leading researchers in the highly active fields of information technology application, will be held in Bali, Indonesia. The ISIITA 2026 will include oral and poster sessions as well as tutorials given by experts in state-of-the-art topics.

IT experts, researchers, and practitioners from each field are invited to share ideas and research technologies; moreover, encouraged to cooperate with each other to overcome the confronted technical problems. As a result, this conference will become a place of knowledge where a variety of effects can be created.

We are proud to invite you to Bali, Indonesia, which is a perfect setting for the Joint Conference. We truly hope that you will have a technically rewarding experience as well as some memorable experiences in Bali, Indonesia.

It is our hope that you're participating in ISIITA 2026 will be a rewarding experience and that you will get a chance to meet other colleagues working in the exciting area of industrial information systems. We are all looking forward to seeing you in Bali, Indonesia.

A sincere welcome awaits all visitors at the joint conference.

Jeong-Tak Ryu
General Chair
Daegu University, Korea

Sang hyuk LEE
General Chair
Xi'an Jiaotong-Liverpool University, China

COMMITTEE

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Industrial Co-Chairs	Jae Ho Ko (SUNGSANENG Co.,Ltd , Korea) Myeong Seung, Lee (KT Corporation, Korea) NAM JOO CHO (Net KTI, Korea)
Conference Secretary	Hyung Gyu Lee (Dsksung Women's University, Korea) Kyung-Ki Kim (Daegu University, Korea) Youngseok Jin(Daegu Gyeongbuk Institute of Science & Technology, Korea)
Finance Chairs	Hyung Gyu Lee (Dsksung Women's University, Korea) Chang-Mo Cho (Keimyung University, Korea)

PROGRAM AT A GLANCE

Jan. 26	
13:30~	SIG Meeting I / Special Meeting 1 : AI Research Group Meeting*
15:15~	Coffee Break
15:35~	SIG Meeting II / Special Meeting 2 : Smart Factory Research Group Meeting*
Jan. 27	
09:30 ~	Registration
10:00 ~	Opening Ceremony
10:30 ~	Keynote I
11:30 ~	Coffee Break
12:00 ~	Special Lunch Time (All together)
13:30 ~	Session 1
15:00 ~	Coffee Break
15:30 ~	Session 2
Jan. 28	
10:00 ~	Session 3(Hybrid Session)
11:30 ~	Coffee Break
14:00 ~	Session 4(Hybrid Session)
15:30 ~	Session 5(Hybrid Session)
Jan. 29	
10:00 ~	Session 6
11:30 ~	Session 7
14:00 ~	Special Meeting : Energy Technology Research Group Meeting*
	Special Meeting : MIS Research Group Meeting*
* Note that all special meetings are closed sessions and not open to general registrants.	

※Times are expressed in Indochina Time (ICT), UTC +7
※The schedule is subject to change due to various circumstances. Subject to Change Without Notice.

SCIENTIFIC PROGRAM

January 26, 2026	
Time	**Content (Offline)**
13:30~	SIG Meeting I / Special Meeting 1 : AI Research Group Meeting*
15:15~	Coffee Break
15:35~	SIG Meeting II / Special Meeting 2 : Smart Factory Research Group Meeting*

January 27, 2026		
Time	**Content (Offline)**	
09:30 ~	Registration	
10:00 ~	Opening Ceremony	
10:30 ~	Keynote I	
11:30 ~	Coffee Break	
12:00 ~	Special Lunch Time (All together)	
13:30 ~	**Session 1: Intelligent Systems** **Chair:** Ryu Jeong Tak (Daegu Univ.)	
	1S-1	**Enhancing Production Efficiency through Jig Standardization: A Case Study on Reducing Design Lead Time and Error Rates** *Donghwoon Kwon[1)], Ki-Doeok Kim[2)], and Jeong-Tak Ryu[3)] ,Seon Sun Pak[4)]* *[1)] Dept. of Computer Science and Engineering, North Central College, Naperville, IL 60540, U.S.A* *[2)] Dept. of Mechatronics Engineering, Daegu University, Republic of Korea* *[2,3)] Dept. of Electronic and Electric Engineering, Daegu University, Republic of Korea* *[4)] Dept. of Smart Convergence Systems Engineering, Daegu University, Republic of Korea*
	1S-2	**A Study on Automatic Crop Yield Measurement and Analysis System** *Heemok Park[1)] and Kyuman Jeong[2)] ,Seung-kwang Ryu[3)], SangJin Lee[4)]* *[1)] Dept. of Smart Convergence System Engineering, Daegu University, Gyeongsan, Korea* *[2)]Dept. of Artificial Intelligence, Daegu University, Gyeongsan, Korea* *[3,4)] Dept. of Smart Convergence Systems Engineering, Daegu University, Korea*
	1S-3	**Subspace-Based Multi-Template Correlation for Robust GPR Reflection Detection in Rough Environments** *Kyungtaeg Yang[1)], Sekyung Kim[1)], Seungeon Song[2)], and Jonghun Lee[1),2)]* *[1)] Dept. of Interdisciplinary Engineering, Graduate school, DGIST, Daegu, 42988, Korea* *[2)] Institute of Research, DGIST, Daegu, 42988, Korea*

	1S-4	**Integrating Political Instability into Stock Market Prediction Using Deep Learning Models** *Suh Sang [1)] and Aarshna Vasaya [1)]* *[1)] Dept. of Computer Science, East Texas A&M University, Commerce, Texas 75428, U.S.A*
	1S-5	**Autonomous Drone System with Real-Time Object Detection and Hybrid Tracking Logic Based on Edge Device** *Gyumin Park[1)] and Hyunki Lee[2*)]* *[1)] Department of Interdisciplinary Engineering, DGIST, 333 Techno jungang-daero, Daegu 42988, Korea* *[2)] Division of Intelligent Robotics, DGIST, 333 Techno jungang-daero, Daegu 42988, Korea*
15:00 ~		Coffee Break
15:30 ~		**Session 2: AI and Sensor Fusion for Smart Systems** **Chair : Hyung-kyu Lee (Duk-soung Women's University, Korea)**
	2S-1	**Stationary and Walking Human Indication Scheme using 24GHz FMCW Radar Sensor for Various Mobility Applications** *YoungSeok Jin [1)] and Eugin Hyun [1)]* *[1)] IS3 Lab, Division of Mobility Technology, DGIST, Daegu, Korea*
	2S-2	**Electrical Detection of Specific Protein Binding Using DNA-Based Nano-biosensor** *Hyung Jin Kim* *Dept. of Semiconductor Engineering, Ulsan College, Ulsan, 44610, South Korea*
	2S-3	**Attention-Based Early Multimodal Fusion for Robust In-Cabin Object Detection** *Hyunduk Kim [1)], Sang-Heon Lee [1)], Myoung-Kyu Sohn [1)] , and Junkwang Kim [1)]* *[1)] Division of Mobility Technology, DGIST, Daegu, Republic of Korea*
	2S-4	**Development of Pediatric Rehabilitation Robot with Differential Gear-based AAN System for Children with Central Nervous System Impairment** *Changmin Lee[1)], Kyungmin Jung[2)], and Hyunki Lee[2)]* *[1)] Department of Interdisciplinary Engineering, DGIST, 333 Techno jungang-daero, Daegu 42988, Korea* *[2)] Division of Intelligent Robotics, DGIST, 333 Techno jungang-daero, Daegu 42988, Korea*
	2S-5	**Dual-Path Cross-Attention U-Net for Poster Design Intent Detection Using Inverted Saliency** *Junkwang Kim[1)], Myoung-Kyu Sohn[1)], Sang-Heon Lee[1)], and Hyunduk Kim[1)]* *[1)] Division of Mobility Technology, DGIST, Daegu, Republic of Korea*

January 28, 2026	
Time	**Content (Offline)**
10:00 ~	**Session 3 : Artificial Intelligence for Medical Data Analysis** **Chair**: Dr. R. Velmurugan, Associate Professor, Presidency College, Chennai, India
	3S-1 **Technology-Enabled Law Practice: Ethical and Professional Responsibilities in Artificial Intelligent Systems** *Dr. R. Deepalakshmi[1)]* *[1)]The Tamil Nadu Dr. Ambedkar Law university, Chennai, India*
	3S-2 **Exploring The Synergy Between AI And Cloud Computing In The Digital Era** *Nandhini. R [1)] , Padmini. B [2)] , and Sasikala. V* *[1)] Department of Computer Science, D.R.B.C.C.C. Hindu College , Pattabiram, Chennai -72* *[2)] Department of Computer Science with Data Science, D.R.B.C.C.C. Hindu College , Pattabiram, Chennai -72*
	3S-3 **Serverless Paradigms for Next-Gen Cloud Systems** *S. Sivaranjani [1)] and R. Anandhi [1)]* *[1)] Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai, India.*
	3S-4 **ADVANCED PREDICTIVE ANALYSIS OF DIABETS USING AXG BOOSTING ALGORITHM** *K. Emayavaramban [1)] and ThambusamyVelmurugan [2)]* *[1)] Guest Lecturer, LoganathaNarayanasamy Government College, Ponneri,* *[2)] Associate rofessor and Head, PG and Research Department of Computer Science, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai, India*
	3S-5 **AI for Digital Well-Being: Real-Time Moderation of Harmful Online Content** *C.Kalpana[1)] , Manoj Devare[2)], Bhagya P Bijay Kumar[3)]* *Amity Institute of Information Technology, Amity University Mumbai* *Mumbai, India*
11:30 ~	Coffee Break
14:00 ~	**Session 4 : Machine Learning for Recent Trend Analysis** **Chair:** Dr. U. Latha, Assistant Professor, D.G.Vaishnav College, Chennai, India.
	4S-1 **ANALYSIS OF CARDIOVASCULAR DISEASE BASED ON MACHINE LEARNING USING JFO ALGORITHM** *G. Ezhilvani[1)], J. Wessly[1)], and R. Durga[1)]* *[1)] Department of Advanced Computing and Analytics VISTAS, Chennai, India*

	4S-2	**Performance of Fusion Classifiers with different fusion schemes for Pattern Analysis** *D.Vaishali [1)], S.Lakshmi[2)]* *[1)]Asst Prof(Sr,G), Department of ECE, SRMIST, Vadapalani, Chennai, India* *[2)] Research Scholar, Department of ECE, SRMIST,Vadapalni ,Chennai, India*
	4S-3	**A Temporal and Explainable Machine Learning Framework for Probabilistic and Extreme Rainfall Prediction** *Soumya Yattinahalli [1)], Vijaya Ramineni [2)], Ramya M S [1)], and Prakash Kuppuswamy [3)]* *[1)] Department of Cloud Computing and AI-BC & BS, GM University, Karnataka* *[2)] Department of Information Security, MIC College of Technology, A.P.* *[3)] Department of Cyber Security & Information Security, GM University*
	4S-4	**Cyber Risks in High-Stakes Trading: Unmasking the Anatomy of Authentication Attacks in the Stock Market** *Malathy S [1)] and R. Anandhi [1)]* *[1)]Assistant Professor, PG & Research Department of Computer Science ,Dwaraka Doss Goverdhan Doss Vaishnav College*
	4S-5	**An AI-Driven Intelligent Digital Cognitive Behavioral Therapy System for Internet Gaming Disorder and Social Anxiety Disorder** *S. Ramya [1)] and A.S. Arunachalam [2)]* *[1)] Research Scholar, Department of Computer Science and Information Technology, Vels Institute of Science, Technology and Advanced Studies (VISTAS), Chennai, India* *[2)] Professor, Department of Computer Science and Information Technology, Vels Institute of Science, Technology and advanced studies (VISTAS), Chennai, India*
	Session 5 : Security for Market Data Analysis and Applications **Chair:** Dr. Ananthi Seshasayee, Asoociate Professor and Head, Quide E Millath College for Women, Chennai, India	
15:30 ~	5S-1	**An integrated approach to URL security that incorporates Machine Learning and Threat Intelligence** *Ranjit Kumar S [1)], Krupakar S Billichod [1)], Sachin S [3)], and Prakash Kuppuswamy [1)]* *[1)]Department of Cyber Security & Information Security, Faculty of Engineering & Technology, GM University, Davanagere, Karnataka.* *[3)] Department of Internet of Technology, Faculty of Engineering & Technology, GM University, Davanagere, Karnataka.*
	5S-2	**Enhancing Cloud Data Security through Blockchain Integration: A Secure and Transparent Framework** *K. Ramya [1)]and R. Anandhi [2)]* *[1)] PG Department of Information Technology and BCA,* *[1)] PG & Research Department of Computer Science, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai, India.* *[2)] PG and Research Department of Computer Science, Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai, India.*
	5S-3	**Diagnosis of Thyroid Disorder Classification using Machine Learning Algorithm** *K.Balasree* *Department of Computer Science SRM Arts and Science College, Kattankulathur*

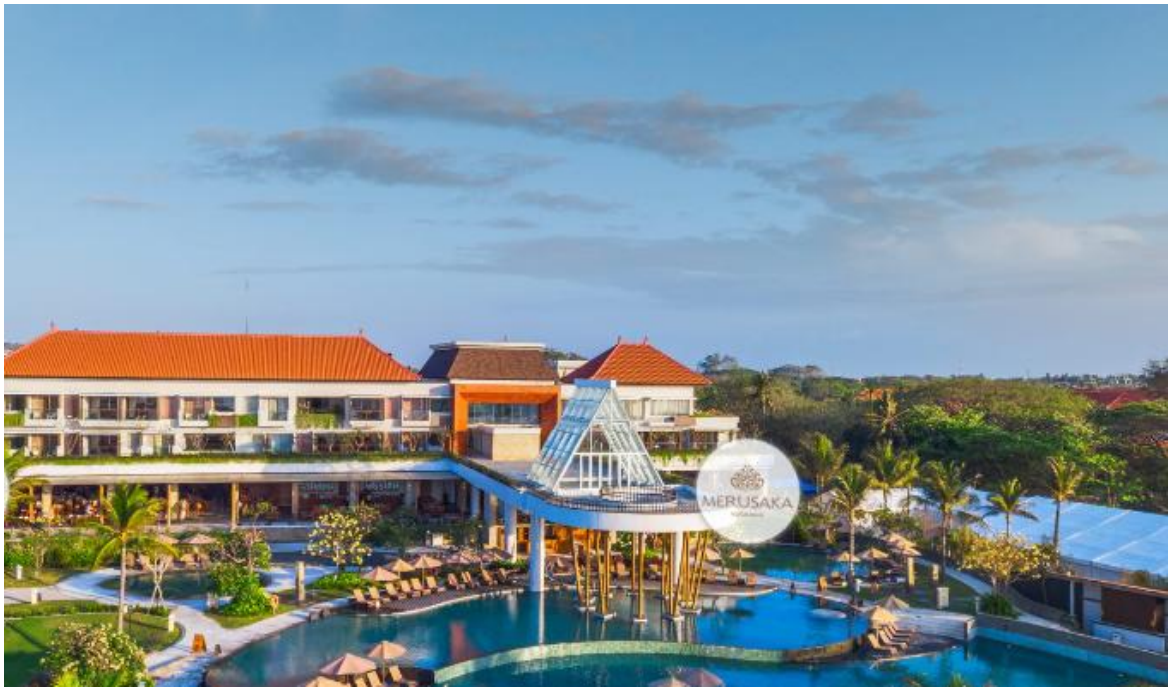
	5S-4	**GlucoMind: An AI-Driven Framework for Predictive and Personalized Diabetes Management** *Padmini. B [1], Nandhini. R [2], and Grace. M [3]* *[1] Department of Data Science, D.R.B.C.C.C. Hindu College , Pattabiram, Chennai -72* *2) Department of Computer Science, D.R.B.C.C.C. Hindu College , Pattabiram, Chennai -72* *3) Department of Computer Applications, Soka Ikeda College of Arts and Science for Women*
	5S-5	**Understanding Cross-Device and Multi-Platform Authentication Failures: A Unified Framework** *Poojitha Shree R [1] and R. Anandhi [1]* [1] Dwaraka Doss Goverdhan Doss Vaishnav College, Chennai, India

January 29, 2026		
Time	**Content (Offline)**	
10:00 ~	**Session 6 : Robust Object Detection and Recognition in Challenging Real-World Environments** **Chair:** Jonghun Lee (DGST)	
	6S-1	**Analysis of the Impact of LOS and NLOS Conditions on Worker Behavior Recognition Performance Using Camera and Radar** *Jieun Park [1], Dokyung Kang[1], Seungeon Song [2], and Jonghun Lee[1),2)]* *[1] Dept. of Interdisciplinary Engineering, Graduate school, DGIST, Daegu, 42988, Korea* *[2] Institute of Research, DGIST, Daegu, 42988, Korea*
	6S-2	**Comparative Evaluation of YOLO and Faster R-CNN Detectors for Cotton Weed Identification Using a Region-Specific Dataset from Uzbekistan** *Dauletnazarov Jaksilik Iskender-uli, Uteuliev Nietbay Uteulievich, Djaykov Gafur Muratbaevich, and Aminaddinov Khumoyun Ravshanovich* *Dept. Computer Science, New Uzbekistan University, Tashkent, Uzbekistan*
	6S-3	**Resampling Based Sequence Alignment for Reducing Temporal Offset Effects in Radar-Based Manufacturing Robot Motion Recognition** *Dokyung Kang [1], Jieun Park [1], Seungeon Song [2], and Jonghun Lee [*1),2)]* *[1] Dept. of Interdisciplinary Engineering, Graduate school, DGIST, Daegu, 42988, Korea* *[2] Institute of Research, DGIST, Daegu, 42988, Korea*
	Session 7 : Data-Driven Intelligence and Analytics for Advanced Decision-Making **Chair:** Sanghyuk Lee (American University in Vietnam)	
11:30 ~	7S-1	**Inclusion and Preference Extension using Hesitation Degree** *Sanghyuk Lee [1] and Einmi Lee [2]* *[1] American University in Vietnam, Vietnam,* *[2] Kookmin University, Korea*

	7S-2	**Intelligent Manufacturing Analytics Dashboard Using Machine Learning for Real-Time Quality Prediction and Root Cause Analysis** *Lilian Marco and Yoosoo Oh* *Dept. of Computer and Information Engineering, Daegu University, Daegu 38453, Korea*
	7S-3	**Synthetic-to-Real Calibration of YOLO-Based Regression for GPR B-Scan** *Sekyung Kim [1], Kyungtaeg Yang [1], Seungeon Song [2], and Jonghun Lee [*1),2)]* *[1] Dept. of Interdisciplinary Engineering, Graduate school, DGIST, Daegu, 42988, Korea* *[2] Institute of Research, DGIST, Daegu, 42988, Korea*
	7S-4	**Improving Brain Tumor Segmentation in MRI with Focus on Enhancing Tumor Segmentation and Boundary Delineation** *Sang Suh and Ozlem Deveci* *Dept. of Computer Science, Texas A&M University-Commerce, Texas, United States*
14:00 ~	Special Meeting : Energy Technology Research Group Meeting*	
	Special Meeting : MIS Research Group Meeting*	

VENUE

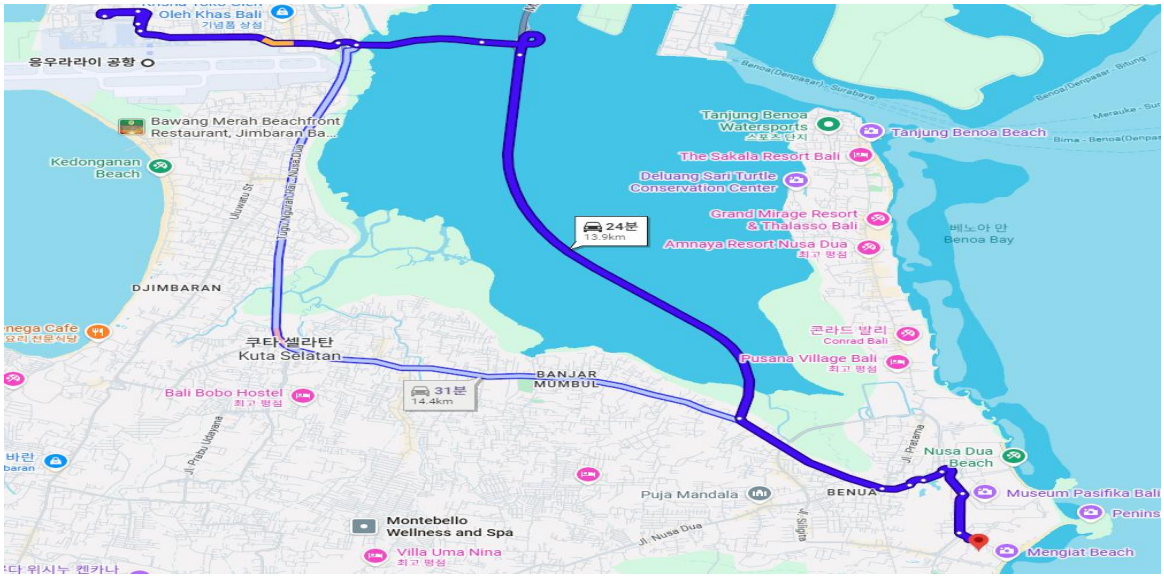
Venue : Merusaka Nusa Dua(https://merusaka.com)
Adress : Kawasan Wisata Nusa Dua Lot S-3, Kabupaten Badung, Bali 80363
Phone : +623612002900
Email : hello.merusaka@meruhotels.com



Transportation

From Ngurah Rai International Airport

- By Car: 13.9km (25 minutes)



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