

Dear all participants in the 15th MGA Conference

Space Service Innovation Laboratory Business Cooperative
Representative Director Naohiko Kohtake

The 15th MGA Conference was held at Duangjitt Resort, Phuket, Thailand from March 4 to March 6, 2025.

We are pleased to report that the 15th MGA Conference was successfully held.

We hope that each session of the conference is more meaningful for everyone who attended, and from this year's MGA G conference, we have been working on new initiatives, such as the implementation of demonstrations that will lead to more seamless cooperation between private companies and the content of your research.

As this is the first time for our organization to serve as the MGA management secretariat, we apologize for any concerns that we may have caused you in the beginning.

However, with your support and advice, we were able to accomplish most of the tasks that we had initially set out to accomplish, and we received many compliments from the participants.

We would like to thank you again for your support.

We will continue this trend, and be sending you questionnaires and presentation materials and visual materials, etc. later.

We will continue to work tirelessly to make the conference more meaningful for everyone.

Thank you for your continued cooperation and support.

第 15 回 MGA 総会にご参加頂きました皆様へ

宇宙サービスイノベーションラボ事業協同組合
代表理事 神武直彦

過日 3 月 4 日から 3 月 6 日までタイ プーケット島 Duangjitt Resort にて実施致しました
第 15 回 MGA 総会に現地ご参加・オンラインご参加頂きました皆様方に、滞りなく運営
出来ましたことをご報告させて頂き、また御礼申し上げます。

ご参加頂きました皆様に取りまして、会議各セッションがより有意義な内容となれますよ
うに、また今回の総会より民間事業各社様と皆様の研究内容がよりシームレスな連携のき
っかけとなるようなデモ実施等、新たなことにも取り組んで参りました。

弊組織として初めての MGA 運営事務局ということもあり当初は皆様にご心配をお掛け
致しました点もございましたが、皆様のご支援・アドバイス等によって ほぼ当初目指して
いた運営を遂行することが出来、多くのご参加者様からお褒めの言葉を頂けました。
重ねて御礼申し上げます。

この流れを継続させて頂きたく、追って皆様に対しまして アンケートや登壇資料、ビデオ
等をお送りさせて頂きます。

皆様にとりましてより有意義な会議体を目指して、今後も絶え間なく尽力して参ります。
引き続きましてどうぞ宜しくお願い致します。



MULTI GNSS ASIA

The 15th Multi-GNSS Asia Annual Conference

**March 4th-6th, 2025
Duangjitt Resort & Spa, Phuket, Thailand**

Supported by



PROGRAM

The 15th MGA Conference Sponsors

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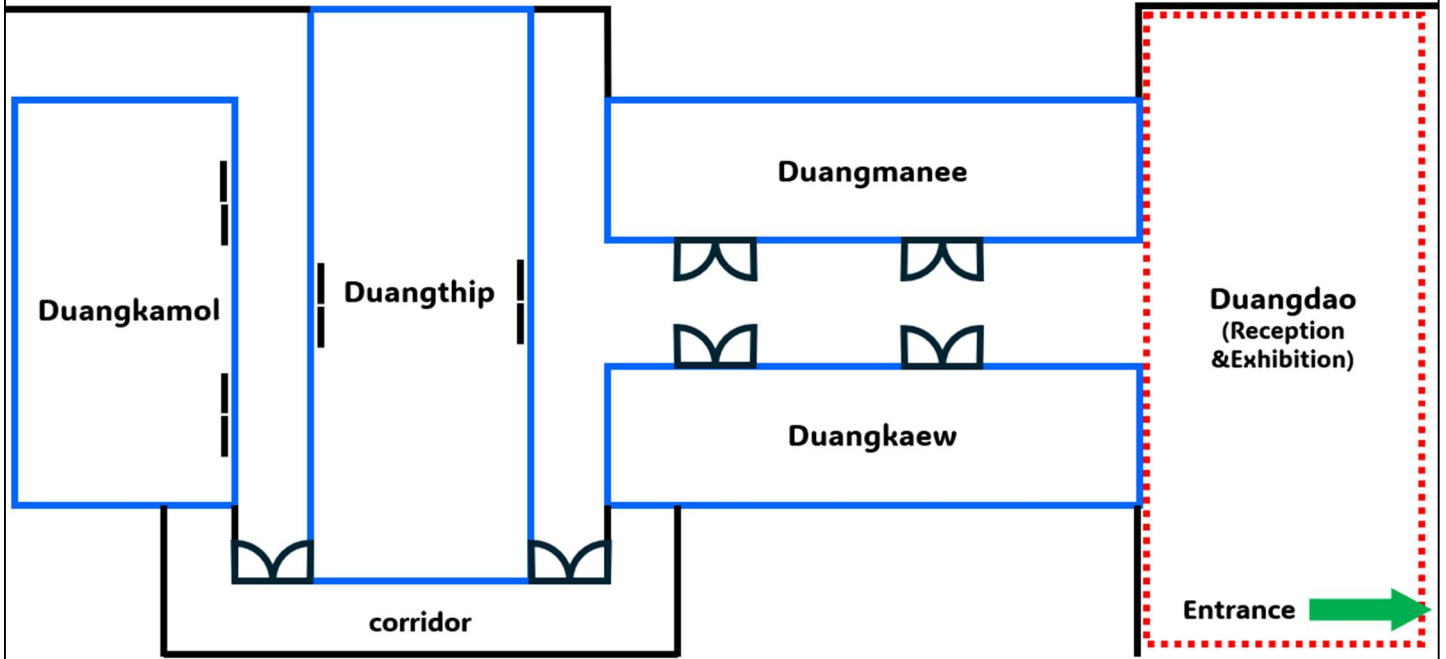
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The 15th Multi-GNSS Asia Annual Conference, Duangjitt Resort & Spa, Phuket, Thailand
Venue map



Duangjitt RESORT & SPA

Accommodation

- 1 Junior Suite and Suite
- 2 Grand Deluxe
- 3 Family Suite
- 4 Deluxe Bungalow Premium
- 5 Deluxe Garden Wing
- 6 Deluxe Bungalow Sino
- 7 Deluxe Gasalong
- 8 Superior

Facilities

- A Wimarn Spa, Fitness
- B Lobby, Reception, Giftshop
- C Business Center, Tailor Shop
- D Banburee Restaurant
- E Bussarakam Swimming Pool
- F Morakot Swimming Pool
- G Noppakaow Swimming Pool
- H Kid's Club
- I Thomtong Restaurant
- J Self Service Ironing Centre
- K Duangchanok Convention Hall

Event Locations:

- Lunch Break
- Dinner Reception on Mar 4th
- Demo on Mar 6th
- MGA

PATONG BEACH

THAWEEWONG ROAD

Duangjitt Resort & Spa
 18 Prachanukroh Road, Patong Beach, Kathu
 Phuket 83150 Thailand

Side events: ICG relative meetings: March 3 rd	
TIME	SESSION / TITLE
9:00-1700	IGMA and PS (Performance Standard) Workshop Room: Duangkamol
14:00-17:00	PPP (Precise Point Positioning) Interoperability Workshop Room: Duangkaew
17:00-19:00	MGA Steering Committee Meeting Room: Duangkaew

Side events: ICG relative meetings: March 4 th	
TIME	SESSION / TITLE
9:00-1700	IGMA and PS (Performance Standard) Workshop Room: Duangkamol
10:00-11:30	ICG WG-D meeting Room: Duangkaew

Day 1: March 4 th	
TIME	SESSION / TITLE
16:30-17:00	Welcome Speeches Room: Duangthip <ul style="list-style-type: none"> ● MGA co-chair – Mr. Satoshi Kogure ● Cabinet Office, Government of Japan -Mr. Kenji Mikami ● ICG (UNOOSA) – Ms. Sharafat Gadimova
17:00-17:50	MGA Platinum Sponsor's talk Room: Duangthip <ul style="list-style-type: none"> ● Mr. Matsuaki Kato (PwC) ● Prof. Naohiko Kohtake (SSIL)
18:00-21:00	Dinner Reception & Networking / Venue: Around Pool F (Morakot Swimming Pool)

DAY 2: March 5 th	
TIME	SESSION / TITLE
10:00-12:30	System Provider Session Room: Duangthip -Moderated by Mr. Jeff M. Auerbach
10:05-10:20	● Beidou- Ms. DU Juan
10:20-10:35	● Galileo-Mr. Dominic Hayes
10:35-10:50	● GLONASS-Mr. Svyatoslav Zhilenko (ROSCOSMOS State Space Corporation)
11:00-11:15	● GPS-Dr. Christopher Erickson
11:15-11:30	● SouthPAN-Mr. Martin Pawlukowski
11:30-11:45	● NavIC- Dr. Nilesh Desai, Dr. Manish Saxena
11:55-12:10	● QZSS-Mr. Kenji Mikami (Cabinet Office)
12:10-12:25	● KPS-Ms. Sujin Park (KASA)
12:30-13:30	Lunch Break / Banburee Restaurant
13:30-15:00	Emerging System session LEO-PNT Room: Duangthip

Presentation 13:30-14:30 Q&A 14:30-15:00	-Moderated by Dr. Masaya Murata <ul style="list-style-type: none"> ● Dr. Alexander Mitelman (USDOT) (in-person) ● Mr. Patrick Shannon (TrustPoint) (remote) ● Mr. Bryan Chan (Xona Space) (remote) ● Mr. Pietro Giordano (ESA) (remote) ● Dr. Daehee Won (KARI) (remote) ● Dr. Yoji Takayama (Furuno Electric) (in-person) ● Dr. Masaya Murata (JAXA) (in-person)
15:00-15:30	Break
15:30-16:00	MGA Diamond Sponsor's talk Room: Duangthip <ul style="list-style-type: none"> ● SoftBank Corporation
16:00-17:30 Presentation 16:00-17:00 Q&A 17:00-17:30	Emerging System session, Lunar PNT Room: Duangthip -Moderated by Dr. Masaya Murata <ul style="list-style-type: none"> ● Mr. Joel Parker (NASA) (remote) ● Dr. Javier Ventura-Traveset (ESA) (remote) ● Ms. Cheryl Gramling (NASA) (remote) ● Mr. Ricardo Verdeguer Moreno (Spirent) (in-person) ● Dr. Jung Min Joo (KARI) (in-person) ● Dr. Ashish K Shukla (ISRO) (remote) ● Ms. Siliang Yang (DSEL) (remote) ● Dr. Masaya Murata (JAXA) (in-person)

DAY 3: March 6th		
TIME	SESSION / TITLE Application Session	SESSION / TITLE Research Session
9:30-10:30	Disaster and Environmental problem mitigation & early warning Room: Duangthip -Moderated by Prof. Suelynn Choy <ul style="list-style-type: none"> ● Prof. Suelynn Choy (RMIT) <i>Detection of Weather and Climate Extremes Using Ground-based GNSS Atmospheric Parameters</i> 9:30-9:50 ● Dr. Dinesh Manandhar (University of Tokyo) & Mr. Avinab Malla (Tribhuvan University) <i>Early Warning System for Glacier Lake Outburst Flood (GLOF)</i> 9:50-11:10 ● Ms. Guo Runjie (NTT Data Japan Corporation) <i>Disaster and Environmental problem mitigation & early warning</i> 9:50-10:10 	High Accuracy GNSS positioning Room: Duangkamol - Moderated by Prof. Nobuaki Kubo <ul style="list-style-type: none"> ● Dr. Kaito Kobayashi (TUMSAT) <i>Summary of MADOCA-PPP accuracy assessment in Asia-Oceania region from 2020</i> 9:30-9:45 ● Dr. Rosalie Reyes (University of Philippines) <i>High Precision Positioning for Land Subsidence Monitoring</i> 9:45-10:00 ● Mrs. Ellarizza Fredeluces (TUMSAT) <i>Modified RTK-GNSS in Challenging Environments + Precise Positioning Challenge</i> 10:00-10:15 ● Napat TKS(KMITL) (remote) <i>GNSS positioning impact induced by ionospheric irregularity during high solar activity</i>

		10:15-10:30
10:30-11:00	Break	
11:00-12:00 [20 mins for each]	Demo Session <ul style="list-style-type: none"> ● Ocean Solutions Technology Co. Ltd, Room: Duangthip&Duangkamol / Around the pond next to Duangchanok Convention Hall ● Team TAF supported by NTT DATA -on behalf of Cabinet Office Venue: Same as the above ● JAXA Venue: Room: Duangthip&Duangkamol / Around the pool G 	
12:00-13:00	Lunch Break / Banburee Restaurant	
13:00-14:00	GNSS service for mass market Room: Duangthip -Moderated by Mr. TAN Hua Seng Jimmy <ul style="list-style-type: none"> ● Mr. TAN Hua Seng Jimmy (Singapore Land Authority) <i>Precise positioning applications for a safe, sustainable and smart city</i> 13:00-13:15 ● Dr. Charles Wang (Kurloo) <i>Kurloo - Automated Monitoring Service for Mass Market, Challenges and Opportunities</i> 13:15-13:30 ● Prof. Naohiko Kohtake (Keio University) <i>Services in Sports and Livestock production with EO and GNSS</i> 13:30-13:45 ● Mr. Fuya Ezuka (JAXA) <i>Open-source MADOCA-PPP solution</i> <i>MALIB for Mass market</i> 13:45-14:00 	Enhancing PNT Capabilities Through Multi-Sensor Integration Room: Duangkamol -Moderated by Prof. Chalermchon Satirapod <ul style="list-style-type: none"> ● Dr. Surachet Srinara (graduated from NCKU, Taiwan) <i>An integrated approach to enhance Positioning, Navigation, and Timing (PNT) capabilities using multiple sensors in intelligent vehicle applications</i> 13:00-13:20 ● Ms. Anuthida Ritthiphan (Department of Survey Engineering, Chulalongkorn University, Thailand) <i>Lane Marking Detection Using Mobile Mapping System Technology with Clustering Technique</i> 13:20-13:40 ● Mr. Cheng-Wei Wang (National Cheng Kung University) <i>Performance Analysis of MADOCA-Enhanced Tightly Coupled PPP/IMU</i> 13:40-14:00
14:00-15:00	ICG related activities Room: Duangthip -Moderated by Satoshi Kogure <ul style="list-style-type: none"> ● Dr. Rui Hirokawa (PPP Interoperability Taskforce) ● Mr. Satoshi Kogure (IGMA Taskforce) ● Dr. Alexander Mitelman (PS Taskforce) ● Ms. Allison Craddock (ICG WG-D) 	Enhancing GNSS Reliability (security, authentication, robustness) Room: Duangkamol -Moderated by Prof. La The Vinh <ul style="list-style-type: none"> ● Dr. Nguyen Dinh Thuan (HUST) <i>Using software defined radio (SDR) for generating GNSS signals</i> 14:00-14:15 ● Dr. Hoang Van Hiep (HUST) <i>Using carried-smoothed pseudorange for GNSS spoofing detection</i> 14:15-14:30 ● Mr. Loh Eng Chu (Singapore Land

		<p>Authority) <i>Enhancing the Reliability of Singapore's National Positioning Infrastructure</i> 14:30-14:45</p> <ul style="list-style-type: none"> ● Dr. Dinesh Manandhar (University of Tokyo) <p>Dr. Seow Chee Kiat (University of Glasgow) Dr. Tan Soon Yim (Nanyang Technological University) Mr. Tan Hua Seng Jimmy (Singapore Land Authority)</p> <p><i>Cloud-based Spoofing Detection Solution</i> 14:45-15:00</p>
<p>15:00-16:00</p>	<p>Gold Sponsor Session + Closing session Room: Duangthip -Moderated by Mr. Satoshi Kogure</p> <ul style="list-style-type: none"> ● Mr. Yamamoto Takahiro (CORE CORPORATION) <i>QZSS Solution: Cohac[∞] and ChronoSky</i> ● Mr. Lennon Suga (Ocean Solutions Technology Co. Ltd) ● Mr. Rod Concepcion (VIAVI Solutions) <p>Closing address from MGA Co-chair Satoshi Kogure</p>	