

updated 30th September 2017

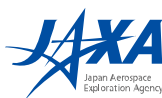
9th Multi-GNSS Asia (MGA) Conference

Next Generation Multi-GNSS Resilient Solutions for Sustainable Development

9th October -11th October 2017
Jakarta, Republic of Indonesia

Multi-GNSS Asia

Jointly organised by:



Supported by:





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WELCOME



Prof. Ta Hai Tung
Chairman

I am pleased to welcome you to the 9th Multi-GNSS Asia conference in Jakarta, Indonesia, on 9-11 October 2017. This annual conference comes at a time in which the great opportunities that can be offered by the multi-GNSS environment are increasingly materializing since such environment is becoming more and more real. Over the past year the European Galileo system has started its initial services, the Japanese QZSS has been extended with a second satellite, the Chinese BeiDou is continuing to be developed, while the US backed GPS and the Russian GLONASS are constantly maintained and modernized.

This environment paves the way to enhanced applications and services in all fields in which the crosscutting GNSS technology is exploited. New studies and developments of industrial solutions are ongoing throughout the world to take out the most from the multi-GNSS environment. The MGA conference is a dedicated forum to present them and to discuss state of the art technology and solutions. This is done with contributions from industry, academia and governmental stakeholders: three components that are essential for identifying solutions suitable for a sustainable and friendly development. Since its first edition, the Conference has a special focus on the dynamic Asia Pacific Region. I am therefore very pleased that this year the MGA Conference is held for the first time in Indonesia, an important player in the Region. In this regard, I would like to express my deep appreciation to the Indonesian Space Agency LAPAN that is acting as the distinguished local organizer of the event.

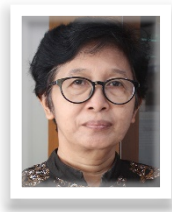


Prof. Teruyuki Kato
Chairman

Welcome to the MGA 2017 conference in Jakarta, Indonesia! This is the 9th conference on multi-GNSS in Asia and Oceania. I am personally all the more pleased that the MGA conference is to be held in Indonesia, as I have been working together with Indonesian colleagues for years on GNSS applications for earthquake monitoring. The Indonesian archipelago is under constant threat of natural hazards such as earthquakes, tsunamis, volcanic eruptions as well as landslides, etc. Multi-GNSS technologies provide powerful tools for monitoring those natural hazards and yet further developments are to be expected in the future to this end. I do believe that this conference will be a good opportunity for researchers and other participants to discuss ways to build a safer and more secure society against natural disasters using multi-GNSS. Needless to say, multi-GNSS environments have much wider areas of applications in industries such as vehicle control, intelligent transportation systems, land based service, etc. Asia and Oceania are the regions where multi-GNSS environments can most effectively be utilized in the world. In striving toward this goal, strong collaborations among academia, industry, and governments is indispensable. To this end, this conference aims to provide a forum among these three sectors. The success of the MGA conference is thus a key to leading the world in the field of multi-GNSS. I believe that the conference will provide great opportunities and exciting experiences to all the participants. Enjoy it!



WELCOME



Ms. Clara Yatini
Local Organizing Committee Chair

On behalf of the local organizing committee of the 9th MGA Conference, we would like to welcome you to Indonesia. The theme of the conference is “Next-Generation Multi-GNSS resilient solutions for sustainable development” as the country is moving forward to an era in which GNSS plays an important role in exploring potential growth areas for national development. Satellite navigation and positioning data are now used in a wide range of areas that include mapping and surveying, monitoring of the environment, precision agriculture and natural resources management, disaster warning and emergency response, aviation, maritime and land transportation and research areas such as climate change and ionospheric studies. It offers a cost-effective way of pursuing sustainable economic growth. In this conference we invite people from government, academia and industries who are interested and involved in satellite navigation to share their experience in GNSS to gain more understanding in GNSS applications and benefits.



INTRODUCTION

- meet leading companies in various GNSS application fields.
- network with leaders, professionals, and entrepreneurs.
- acquire latest information on GPS, QZSS, Galileo, GLONASS, BeiDou, and Navic.
- learn firsthand about system capabilities, future technical trends, new life styles....
- participants include industries, space agencies, researchers, students, and GNSS users from Indonesia and SEA.
- exchange your ideas, demands, and views, discuss solutions to social issues using GNSS, GIS, and Space technologies.

We are pleased to announce that the 9th Multi-GNSS Asia Conference will be held on 9th-11th October 2017 at the AYANA Midplaza Jakarta in Jakarta, Republic of Indonesia.

The main theme of this year's conference will be "**Next Generation Multi-GNSS Resilient Solutions for Sustainable Development**" and our goal is to enhance cooperation between governments, industry and academia. As in previous years, technical trends in Multi-GNSS, potential GNSS applications in the region, activity reports from MGA participants, and MGA future activities will be presented.

For updated information on the agenda and venue, please kindly visit our website:

www.multignss.asia/conference.html

We look forward to seeing you in Indonesia.

Sincerely,

MGA Conference Secretariat



CONFERENCE INFORMATION

- Date:** 9th - 11th October 2017
- Place:** Jakarta, Republic of Indonesia
- Venue:** AYANA Midplaza Jakarta
<http://www.ayana.com/en/jakarta/ayana-midplaza-jakarta>
- Participation:** There is NO participation fee to join the conference.
- Capacity:** Seating capacity is limited to 200 people. Note that the registration for the MGA Conference will be accepted on a first-come-first-served basis.
- Registration:** PRE-REGISTRATION HAS CLOSED
- Inquiries:** If you have any inquiries concerning the MGA Conference, please contact:
Kazutoshi Sato (Dr.), Takehisa Chiba (Mr.)
MGA Conference Secretariat
c/o Japan Aerospace Exploration Agency (JAXA)
2-1-1 Sengen, Tsukuba, Ibaraki, 305-8505 Japan
email: secretariat@multignss.asia
- Further Info:** <http://www.multignss.asia/conference.html>



IMPORTANT DATES

REGISTRATION DEADLINE for those who need to obtain a VISA

Closed on AUG 15



SPONSORSHIP (Early-bird) DEADLINE

Extended from AUG 15



ABSTRACT DEADLINE

Closed on AUG 31



SPONSORSHIP DEADLINE

Closed on SEPT 15



Multi-GNSS Asia Conference



PROGRAMME AGENDA

	9 th October (Day 1)	10 th October (Day 2)	11 th October (Day 3)	
	Ballroom B	Jasmine 1-3	Jasmine 1-3	
9	9:00-10:00 Opening Ceremony	9:00-10:20 Multi-GNSS Industrial Developments and Applications (I)	9:00-10:15 Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region (III) - ITS	9
10	Photo Session			10
11	Booth Opening Ceremony Coffee Break	Coffee Break	Coffee Break	11
12	11:20-12:50 Plenary Session (GNSS Update + Announcement)	10:40-11:45 Multi-GNSS Industrial Developments and Applications (II)	10:30-12:30 Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region (IV) - LBS/Others	12
13	12:50-14:00 Lunch time (Poster & Exhibition)	11:45-13:00 Special Session for Indonesia	12:30-13:30 Lunch time (Poster & Exhibition)	13
14	14:00-15:35 Latest Trends in Multi-GNSS Technology and Research (I)	13:00-14:00 Lunch time (Poster & Exhibition)	13:30-14:00 MGA Annual Activity Report	14
15	Coffee Break	14:00-15:30 Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region (I) -PP	14:00-15:00 Closing Session	15
16	16:05-18:00 Latest Trends in Multi-GNSS Technology and Research (II)	Coffee Break		16
17		16:15-18:00 Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region (II) - DMM		17
18		18:00-18:30 Students and Young Professionals Forum (Presentation)		18
19	18:30-20:30 (@Lotus2) Students and Young Professionals Forum (Ideathon) [closed]			19
20		19:30-21:00 MGA Reception @ Ballroom B		20
21				21

NOT REGISTERED YET?



PROGRAMME DETAILS



Opening Ceremony



09:00-10:00, Monday 9th October 2017

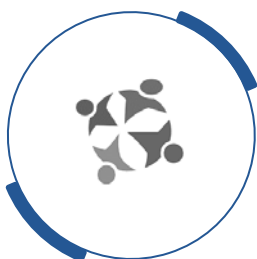


Ballroom B



Ms. Happy Rumiris, Local Organizing Committee, Indonesia

09:00 – 09:10	Opening remarks Dr. Ta Hai Tung, Chairman of MGA.
09:10 – 09:20	Welcome speech Prof. Dr. Thomas Djamaluddin, Chairman of the National Institute of Aeronautics and Space/Lembaga Penerbangan dan Antariksa Nasional (LAPAN)
09:20 – 09:30	Welcome speech Ministry of Research and Technology, Republic of Indonesia (TBC)
09:30 – 10:00	Keynote speech <u>Roles of GNSS for Geospatial Information Development in Indonesia</u> Prof. Dr. Ir. Hasanuddin Z. Abidin, Chairman of Badan Informasi Geospasial (BIG)



10:00-11:20

10:00 Photo Session @ Ballroom B

10:30 Booth Opening @ Jasmine 4-7

Coffee Break

PROGRAMME DETAILS



Plenary Session



11:20-12:50, Monday 9th October 2017



Ballroom B



Prof. Teruyuki Kato, Chairman of MGA.

Overview

In the plenary session, stakeholders from government agencies will present their latest GNSS technologies, space applications as well as their space policies under the theme of the Multi-GNSS Asia conference “Providing the Solutions using Multi-GNSS and Other Space Applications in the Asia-Pacific Region”. Furthermore, as the Multi-GNSS Asia Conference is aimed at strengthening mutual cooperation between industry, governments and academia, their experiences and cooperation opportunities will be discussed.

Programme

- 11:20-11:40 Multi-GNSS for Space Users: NASA’s Role in Enhancing PNT
Mr. James J. Miller, Policy & Strategic Communications Division with the Space Communications and Navigation Program at NASA Headquarters, USA
- 11:40-12:00 Status Update of the Galileo and EGNOS programmes
Mr. Pieter De Smet, Galileo and EGNOS-Applications, Security, International Aspects, Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs, European Commission
- 12:00-12:20 Development of BeiDou Navigation Satellite System (BDS)
Dr. Shuli Song, Shanghai Astronomical Observatory, CAS
- 12:20-12:40 Project Overview of the QZSS
Mr. Yoshiyuki Murai, QZSS Promotion Office, NEC Corporation, Japan
(Supporting Cabinet Office of the Government of Japan)
- 12:40-12:50 Announcement for Students and Young Professional Forum
Dr. Naohiko Kohtake, Keio University

PROGRAMME DETAILS



Latest Trends in Multi-GNSS Technology and Research



14:00-18:00, Monday 9th October 2017



Ballroom B



Dr. Ta Hai Tung, HUST, Vietnam

Prof. Teruyuki Kato, Univ. of Tokyo, Japan

Overview

This session offers the opportunity to researchers and technicians from industry, research institutions, and universities to share their view on the latest trends in RTD activities in the field of Multi-GNSS technology and its applications, providing insight on results and solutions that could be embedded in coming services, industrial products, and applications. The Session will feature presentations by Asian and European technicians and researchers.

Programme

- | | |
|-------------|--|
| 14:00-14:05 | Opening remarks
Dr. Ta Hai Tung, HUST, VIETNAM |
| 14:05-14:20 | <u>Tighter Integrity Bounds for ARAIM Wrong Exclusion Risk</u>
Mr. Eugene Bang, ENAC, France |
| 14:20-14:35 | <u>Review of the Latest Developments in the Evaluation of GNSS Jamming and Spoofing Impact</u>
Dr. Ronald Wong, Spirent Communications Plc, UK |
| 14:35-14:50 | <u>High Accuracy Navigation Techniques under Scintillation Conditions</u>
Dr. Adria ROVIRA-GARCIA, UPC, Spain |
| 14:50-15:05 | <u>Development of multipath mitigation methods to improve GNSS positioning accuracy under urban environments</u>
Mr. Yoshihiro Fukuzaki, GSI, Japan |
| 15:05-15:20 | <u>Simultaneous study of Equatorial Plasma Bubbles using IRNSS and All Sky Imager from low latitudes</u>
Prof. A.K. Sharma, Shivaji University, India |




PROGRAMME DETAILS


- 15:20-15:35 Can RTK Ambiguity Resolution be Resolved for Baseline Length More Than 80 km?
Mr. Fuad Fithratur Rahman, ITB, Indonesia
- 15:35-16:05 Coffee Break
- 16:05-16:20 First review and use of Android Raw Measurements for Positioning and Earth Observation
Dr. Garcia-Fernandez, Miquel, Rokubun S.L., Spain
- 16:20-16:35 Essential and Noble Schemes of Merging Each Estimate by Each GNSS in Multi GNSS Based on the Kalman Filter
Prof. Sueo Sugimoto, Ritsumeikan University, Japan
- 16:35-16:50 Assessing the Ionospheric Impact on Biomass ESA mission
Mr. Vincenzo Romano, SET & INGV, Italy
- 16:50-17:05 Dangers of Spoofing and Anti-Spoofing Solution
Dr. Dinesh Manandhar, University of Tokyo, Japan
- 17:05-17:20 The implementation of Galileo OSNMA Message
Ms. Nguyen Thi Thanh Tu, NAVIS Centre, Vietnam
- 17:20-17:35 The 1st Private CORS Network in ASEAN
Mr. Ahmad Ependi, Zi-TechAsia, Indonesia
- 17:35-17:50 Risky Driving Behavior Detection for Public Bus in Thailand using Multi-GNSS
Mr. Attapon Kommangkorn, NECTEC, Thailand
- 17:50-18:00 Closing Remarks
Prof. Teruyuki Kato, University of Tokyo, Japan


PROGRAMME DETAILS



Students and Young Professionals Forum

 18:30-20:30, Monday 9th October 2017 [Closed]
18:00-18:30, Tuesday 10th October 2017

 Lotus 2 (Monday 9th)
Jasmine 1-3 (Tuesday 10th)

 Dr. Naohiko Kohtake, Keio Univ., Japan
Dr. Ta Hai Tung, HUST, Vietnam

Overview

The second MGA Students and Young Professionals Forum (MSY2017) is a workshop for university students and young researchers who are engaged and interested in GNSS activities in the Asia-Pacific region. The goal of this workshop is to strengthen the regional network of the students and young researchers, and to consider the possibilities and issues in the Asia-Pacific region that the regional GNSS community is facing and to provide inputs from the next generation of stakeholders in GNSS activities. In order to achieve such goals, this workshop expects participants from various countries, background (engineering, science, business, marketing, international relations and related fields), and organizations (such as public sectors, NGOs, companies, and academic institutions).

Programme

Monday 9th

- 18:30 – 20:30
1. Remarks
 2. Networking
 3. Ideathon
 4. Conclusion

Tuesday 10th

- 18:00 – 18:30
5. Presentation



PROGRAMME DETAILS



Multi-GNSS Industrial Developments and Applications



09:00-11:45, Tuesday 10th October 2017



Jasmine 1-3



Mr. Rainer Horn, GNSS.asia, Germany

Ms. Bärbel Deisting, bavAIRia e.V., Germany

Overview

The session titled "Multi-GNSS Industrial Developments and Applications" will feature presentations by key European and Asian players from GNSS companies on trends and international cooperation opportunities in Multi-GNSS.

Programme

- 09:00-09:05 Opening Remarks
Ms Barbel Deisting, Director of Space Applications, bavAIRia, e.V.
- 09:05-09:20 siNafa Safety Navigation for Shipping
Mr. Dirk Kowalewski, navXperience GmbH, Germany
- 09:20-09:35 Multi-GNSS Receiver Development towards QZSS Service Startup
Dr. Takahiro Yamamoto, CORE, Japan
- 09:35-09:50 DFMC SBAS Trial with QZSS L5S Signal
Dr. Takeyasu Sakai, ENRI, Japan
- 09:50-10:05 Innovation on Mobile Phone GPS based on Geotagging for Paddy Growth Stages Reporting in Indonesia
Dr. Agustan, BPPT, Indonesia
- 10:05-10:20 SEPTENTRIO's RESILIENT MULTI-GNSS SOLUTIONS
Mr. Alain Suskind, Septentrio, Belgium
- 10:20-10:40 Coffee Break
- 10:40-10:55 A novel design of multi-GNSS positioning based on Snapshot Technique
Mr. Thuan Nguyen Dinh, HUST, Vietnam
- 10:55-11:10 Tackling Ionosphere to Enhance GNSS High Accuracy: Spacearth Technology
Mr. Vincenzo Romano, SET&INGV, Italy
- 11:10-11:25 GNSS Testing for the Future - The Challenge
Dr. Guenter Heinrichs, IfeN, Germany
- 11:25-11:40 STRIKE3/DETECTOR
Mr. Mark Dumville, NSL, UK
- 11:40-11:45 Closing remarks by Mr. Rainer Horn, GNSS.asia

PROGRAMME DETAILS



Special Session for Indonesia



11:45-13:00, Tuesday 10th October 2017



Jasmine 1-3



Ir. Timbul Manik, M.Eng, LAPAN

Overview

This session offers the opportunities to know the current situation of the developments in Indonesia and one of the major development in maritime sector in Indonesia. Also the speakers from international communities will present the potential applications to be utilised in Indonesia.

Programme

- 11:45-12:15 Current Situation of the Developments in Indonesia and introduction of Maritime Sector in Indonesia (tentative title)
DG Transport in Maritime (TBC)
- 12:15-12:30 Introduction of Maritime Application in EU (tentative title)
Mr. Pieter De Smet, Galileo and EGNOS-Applications, Security, International Aspects, Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs, European Commission
- 12:30-12:45 Introduction of Potential Application in Indonesia
Prof. Ryosuke Shibasaki, Center for Spatial Information Science, University of Tokyo
- 12:45-13:00 European GNSS for Surveying – An opportunity for Southeast Asia
Mr. Rainer Horn, GNSS.asia



PROGRAMME DETAILS



Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region

-Precise Positioning (PP) -



14:00-15:30, Tuesday 10th October 2017



Jasmine 1-3



Dr. Suelynn Choy, RMIT University, Australia

Overview

The world of GNSS is now entering into a new era of Multi-GNSS. In this new era, various new challenges and developments are expected. The first challenge is to develop new algorithms and strategies of using plural GNSS systems, in particular those that are able to provide resilient GNSS solutions for users worldwide.

Applications of multi-GNSS data for new fields of science and engineering are also to be challenged. In particular, cm accuracy positioning of moving platforms in real-time is one of the most promising fields of using multi-GNSS. Asia and Oceania are the most promising areas of such applications where the largest numbers of GNSS satellites are expected to be available. Thus, the MGA 2017 Conference tries to provide a forum among related researchers to introduce their new results, share new ideas and plans, and exchange information on multi-GNSS under the theme of "Next Generation Multi-GNSS Resilient Solutions for Sustainable Development". Any related topics are solicited for presentation, in particular, but not limited to, the following four topics; precise positioning (PP), intelligent transport system (ITS), disaster mitigation and management (DMM), and location based services (LBS).

Programme

- 14:00-14:05 Remarks by Dr. Suelynn Choy, RMIT University, Australia
- 14:05-14:20 GPS PPP-RTK structure deflection detection, in case of the Severn Bridge, UK
Dr. Xu Tang, Univ. Nottingham Ningbo China, China
- 14:20-14:35 Pilot Experiments in Thailand on CORS establishment and usages of various applications
Dr. Tadashi Sasagawa, PASCO, Japan



PROGRAMME DETAILS

- 14:35-14:50 Does BeiDou Satellite System (BDS) Improving the Accuracy of Static and RTK GNSS Measurement in Indonesia?
Mr. Irwan Gumilar, ITB, Indonesia
- 14:50-15:05 A New Device for PPP-RTK to Create Both Professional and Consumer Markets
Mr. Koki Asari, SPAC, Japan
- 15:05-15:20 The Influence of Baseline Length and Satellite Visibility on RTK (GNSS) GPS BEIDOU Performances
Dr. Heri Andreas, ITB, Indonesia
- 15:20-15:30 Discussion
Dr. Suelynn Choy, RMIT University, Australia

PROGRAMME DETAILS



Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region

- Disaster Mitigation-Management (DMM) -



16:15-18:00, Tuesday 10th October 2017



Jasmine 1-3



Prof. Teruyuki Kato, University of Tokyo, Japan

Overview

The world of GNSS is now entering into a new era of Multi-GNSS. In this new era, various new challenges and developments are expected. The first challenge is to develop new algorithms and strategies of using plural GNSS systems, in particular those that are able to provide resilient GNSS solutions for users worldwide.

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16:15-16:20	Remarks by Prof. Teruyuki Kato, The University of Tokyo, Japan
16:20-16:35	<u>Combining GPS and InSAR for Deformation Monitoring Application in a Hydraulic Engineering</u> Prof. Xiufeng He, Hohai University, China
16:35-16:50	<u>Utilization of GNSS Network for Severe Storm Prediction and Monitoring</u> Dr. Yoshinori Shoji, MRI-JMA, Japan
16:50-17:05	<u>Discussion on Method to Extract Millimeter Accuracy Positioning Result from PPP-RTK Measurement</u> Dr. Izumi Mikami, SPAC, Japan



PROGRAMME DETAILS


17:05-17:20	<u>3D DEFORMATION ANALYSIS USING GNSS DATA ON PENGGARON BRIDGE OF SEMARANG-UNGARAN TOLL ROAD SECTION</u> Mr. Rizal Adhi Pratama, Geotronic Pratama Indonesia, Indonesia
17:20-17:35	<u>Retrieval of PWV Based on GPS and Multi-level Isobaric Surface Data</u> Mr. Hongkai Shi, Hohai University, China
17:35-17:50	<u>GNSS Based Displacement Monitoring Technology for Disaster Mitigation and Management (DMM) and Infrastructure Monitoring</u> Mr. Mitsutomo Nakamura, Kokusai Kogyo., Co.Ltd. Japan
17:50-18:00	Discussion Prof. Teruyuki Kato, University of Tokyo, Japan



PROGRAMME DETAILS



MGA Reception

 19:30-21:00, Tuesday 10th October 2017

 Ballroom B

 MGA Secretariat

Join US

Programme

- ✧ 19:30-19:35 Welcome Speech by MGA, Prof. Teruyuki Kato, MGA Secretariat
- ✧ 19:35-19:40 Welcome Speech by LOC, Ms. Clara Y. Yatini, Local Organizing Committee Chair
- ✧ 19:40-20:15 Dinner Time
- ✧ 20:15-20:45 ESNC GNSS.asia Prize Ceremony
- ✧ 20:45-21:00 Dinner Time





PROGRAMME DETAILS



Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region

-Intelligent Transportation System (ITS)-

 09:00 – 10:15, Wednesday 11th October 2017

 Jasmine 1-3

 Dr. Nobuaki Kubo, TUMSAT, Japan

Overview

The world of GNSS is now entering into a new era of Multi-GNSS. In this new era, various new challenges and developments are expected. The first challenge is to develop new algorithms and strategies of using plural GNSS systems, in particular those that are able to provide resilient GNSS solutions for users worldwide. Applications of multi-GNSS data for new fields of science and engineering are also to be challenged. In particular, cm accuracy positioning of moving platforms in real-time is one of the most promising fields of using multi-GNSS. Asia and Oceania are the most promising areas of such applications where the largest numbers of GNSS satellites are expected to be available. Thus, the MGA 2017 Conference tries to provide a forum among related researchers to introduce their new results, share new ideas and plans, and exchange information on multi-GNSS under the theme of “Next Generation Multi-GNSS Resilient Solutions for Sustainable Development”. Any related topics are solicited for presentation, in particular, but not limited to, the following four topics; precise positioning (PP), intelligent transport system (ITS), disaster mitigation and management (DMM), and location based services (LBS).

Programme

09:00-09:05	Remarks by Dr. Nobuaki Kubo, TUMSAT, Japan
09:05-09:20	<u>A new traffic disaster alert by fusion of national land data and weather data</u> Mr. Toshihiro Urayama, Asia Air Survey, Japan
09:20-09:35	<u>Comparative analysis of Single Point Positioning and MADOCA-Precise Point Positioning in road/lane identification</u> Dr. Rosalie B. Reyes, Univ. Philippines, Philippines
09:35-09:50	<u>Use of GPS in map creation for autonomous vehicles</u> Mr. Takafumi Inagaki, AISAN Technology, Japan
09:50-10:05	<u>Vehicle Lane-Level Position Identifying with Multi-GNSS Tracking Data</u> Napong Wanichayapong, NECTEC, Thailand
10:05-10:15	Discussion Dr. Nobuaki Kubo, TUMSAT, Japan



PROGRAMME DETAILS



Multi-GNSS Applications in Indonesia and in the Asia-Pacific Region

-Location Based Services and Others-



10:30-12:30, Wednesday 11th October 2017



Jasmine 1-3



Dr. Naohiko Kohtake, Keio University, Japan

Overview

The world of GNSS is now entering into a new era of Multi-GNSS. In this new era, various new challenges and developments are expected. The first challenge is to develop new algorithms and strategies of using plural GNSS systems, in particular those that are able to provide resilient GNSS solutions for users worldwide.

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Programme

10:30-10:35	Remarks by Dr. Naohiko Kohtake, Keio University
10:35-10:50	<u>Promotions of GNSS Applications for Sustainable Development by Academic Networks in Asia and Pacific</u> Dr. Hiroyuki Miyazaki, University of Tokyo, Japan
10:50-11:05	<u>WLAN INTEGRATED GNSS SYSTEM FOR INDOOR POSITIONING AND NAVIGATION</u> Mr. Krishna Naik karamot, DEEMED University, India
11:05-11:20	<u>Real-time Monitoring for Structure Deformations Using Hand-held RTK-GNSS Receivers on the Wall</u> Mr. So Takahashi, TUMSAT, Japan

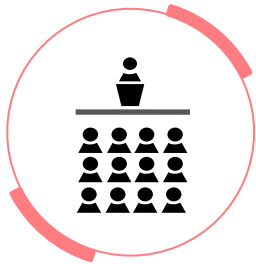


PROGRAMME DETAILS

11:20-11:35	<u>Application of Low Cost RTK GPS Module for Precise Geotagging using Smartphone</u> Mr. Dedi Atunggal, Univ. Gadjah Mada, Indonesia
11:35-11:50	<u>Positional Accuracy Control in Dense Urban Environment with Low-Cost Receiver and Multi-Constellation GNSS</u> Dr. Dinesh Manandhar, University of Tokyo, Japan
11:50-12:05	<u>Initial Study of Ionospheric Correction in SBAS for Indonesia Region</u> Mr. Slamet Supriadi, LAPAN, Indonesia
12:05-12:20	<u>NAVIPORTAL - a demonstration on ionospheric monitoring in Vietnam</u> Mr. Hoang Van Hiep, HUST, Vietnam
12:20-12:30	Discussion Dr. Naohiko Kohtake, Keio University



PROGRAMME DETAILS



MGA Annual Activities Report



13:30-14:00, Wednesday 11th October 2017



Jasmine 1-3



Dr. Noordin Ahmad, ANGKASA, Malaysia

Overview

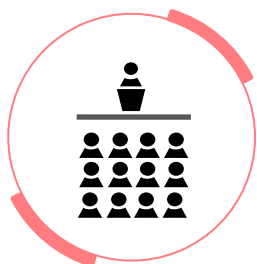
In this session, we will introduce several projects in an annual report of MGA activities. We will also report on the GNSS international summer school which the MGA co-sponsored.

Programme

13:30-13:45	Report of MGA activities 2017 Dr. Kazutoshi Sato, MGA Secretariat
13:45-14:00	GNSS International Summer School Prof. Akio Yasuda, TUMSAT, Japan



PROGRAMME DETAILS



Closing Session

 14:00-15:00, Wednesday 11th October 2017

 Jasmine 1-3

 Mr. Takehisa Chiba, MGA Secretariat

Overview

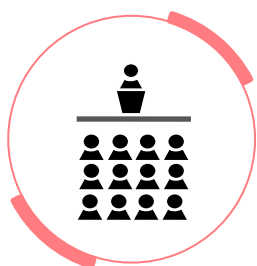
In this session, the MGA Secretariat will give a summary report of each of the sessions and conclude the conference.

In addition, the venue for next year's MGA Conference will be announced.

Programme

14:00-15:00	<u>Wrap up and Announcement of Next Year's Venue</u> Dr. Kazutoshi Sato, MGA Secretariat
	<u>Closing Remarks</u> Ms. Clara Yatini, Local Organizing Committee Chair Prof. Teruyuki Kato, MGA Co-chair
	<u>Announcement for IS-GNSS 2018 @ Bali, Indonesia</u> Mr. Brian Bramanto, ITB, Indonesia

PROGRAMME DETAILS



Poster Session

 Monday – Wednesday, 9th - 11th October 2017

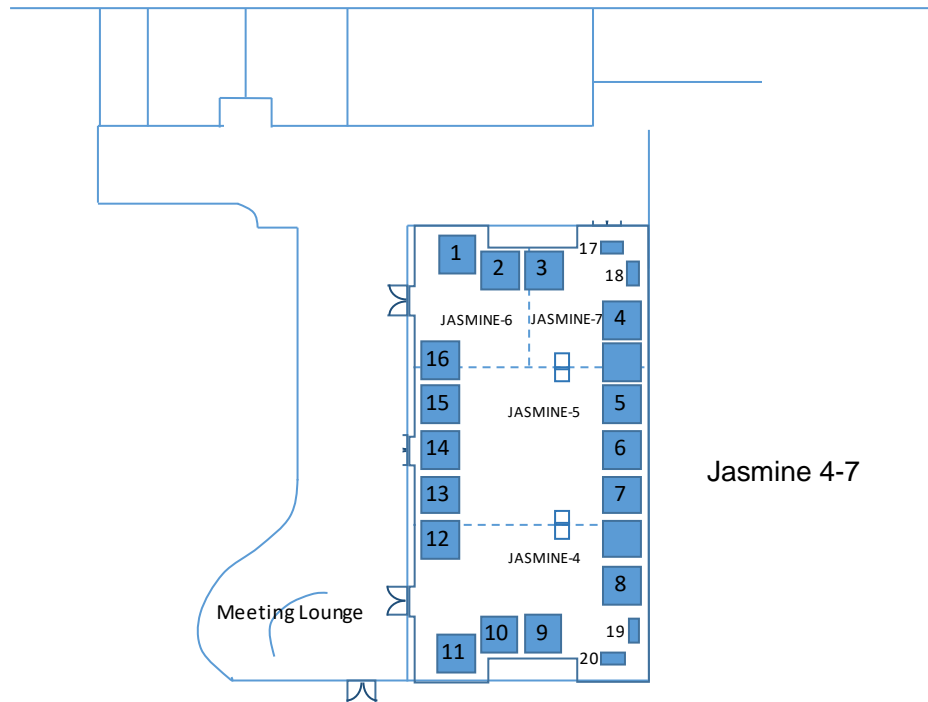
 Jasmine 4-7

Poster

P-1	<u>Analysis of GNSS Clock Performance and Characteristics of Clock Corrections</u> Mr. Chao Huang (SAO, CAS, China)
P-2	<u>Multi-GNSS and IMU Integration in a Land Mobile Mapping System</u> Mr. Penghe Zhang (Univ. Nottingham Ningbo China, China)
P-3	<u>Adaptability of GNSS Broadcast Ionospheric Models to Solar Activity</u> Ms. Na Cheng (SAO, CAS, China)
P-4	<u>GPStation-6 EMPLOYMENT FOR MONITORING IONOSPHERIC IRREGULARITIES DURING SOLAR ECLIPSE 2016</u> Mr. Asnawi Husin (LAPAN, Indonesia)
P-5	<u>Road Facility Asbuilt Mapping Using GNSS</u> Mr. Husni Mobarak Prince (Universiti Putra Malaysia, Malaysia)
P-6	<u>GNSS-R data Processing Software Design for the Sea Wind Detection</u> Ms. Dessi Marlia (Beihan University, Indonesia)
P-7	<u>THE POTENTIAL PROCESSING DATA OF INA-CORS USE PRECISE POSITIONING STRATEGY FOR WEATHER AND ENVIRONMENTAL STUDIES</u> Mr. Syachrul Arief (Hokkaido University, Japan)



EXHIBITION BOOTH



1	Mitsubishi Electric Corporation	11	Spirent Communications Plc
2	Quasi-Zenith Satellite System Services Inc. (QSS)	12	IFEN GmbH
3	Topcon Singapore Positioning Sales Pte Ltd	13	BELS
4	Kokusai Kogyo Co., Ltd.	14	GNSS.asia
5	Tokyo University of Marine Science and Technology	15	LAPAN
6	Center for Spatial Information Science (CSIS), The University of Tokyo	16	PT Zi-Tech Asia
7	Keio University	17	HONDA Motor Co., Ltd.
8	MAGELLAN SYSTEMS JAPAN, Inc.	18	Global Positioning Augmentation Service Corporation (GPAS)
9	Satellite Positioning Research and Application Center	19	CORE CORPORATION
10	ASIA AIR SURVEY CO., LTD.		

