ACRS 2018 THE 39TH ASIAN DUNFERENCE ON REMUTE SENSING KUALALUMPUR

The 39th Asian Conference on Remote Sensing (ACRS 2018) 'Remote Sensing Enabling Prosperity'

Renaissance Kuala Lumpur Hotel, Kuala Lumpur, MALAYSIA

15 to 19 October 2018

PROGRAMME BOOK

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INTRODUCTION

The Asian Conference on Remote Sensing (ACRS) is an annual event hosted by member countries of the Asian Association on Remote Sensing (AARS). AARS aims to promote remote sensing technology through the exchange of information, mutual cooperation, international understanding and goodwill amongst the members. The idea of organising a remote sensing conference in Asia, by Asian and for Asian was first raised and agreed upon in a gathering attended by Asian scientists in San Jose, Costa Rica in April 1980 during the 14th International Symposium on Remote Sensing of Environment (ERIM Symposium). The first ACRS was held in Bangkok, Thailand from 5 to 7 November 1980.

The 39th Asian Conference on Remote Sensing (ACRS 2018) from 15 to 19 October 2018 will be the fourth time for Malaysia to host the event after successfully organised in 1989, 1997 and 2007. ACRS 2018 will held at the Renaissance Kuala Lumpur Hotel. The theme for ACRS 2018 is "Remote Sensing Enabling Prosperity".

The conference will be a platform for participants from government, industries and academia to meet and deliberate on the latest advancement in remote sensing and related technologies. It also provides opportunities for exhibitors to introduce their latest remote sensing products, processes and state-of-the-art technologies.

The conference will be held in Renaissance Kuala Lumpur Hotel. The hotel is located at Kuala Lumpur's Golden Triangle and only 60 minutes from Kuala Lumpur International Airport (KLIA) and within easy walking distant of mall, restaurants, entertainment centres and 3 - 5 star hotels. The hotel is ideally situated in the Bukit Bintang city center, near the Petronas Twin Towers, KL Tower and Kuala Lumpur Convention Centre. It is easily accessible via the monorail, bus or train with stations just steps away from the hotel.



MESSAGE BY YB MINISTER OF THE MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE (MESTECC)

On behalf of the Government of Malaysia, it gives me great pleasure to welcome you to the 39th Asian Conference on Remote Sensing (ACRS 2018) here in Kuala Lumpur. We are honoured to host this prestigious regional conference. Congratulations to Malaysian Remote Sensing Agency (MRSA) and Asian Association of Remote Sensing (AARS) for successfully organising this conference.

Themed as **Remote Sensing Enabling Prosperity**, the conference brings together relevant field experts, academicians, industry representatives, researchers and students from around the world, providing them with opportunity to present, discuss, and share scientific discoveries, achievements, challenges and opportunities in this field.

> Malaysia has made significant progress in the development of space technology, including remote sensing, through the concerted effort of the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC). We can thus apply the technological advancement in areas that bring about social, economic and environmental benefits.

I am confident that this conference will continue to enhance the collaboration between countries in utilising advanced technologies to improve the lives of the people in Malaysia and globally, as we proceed with our work towards a future that is sustainable.

YEO BEE YIN Minister of the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC)

MESSAGE BY DIRECTOR GENERAL OF MRSA AND CHAIRMAN OF LOCAL ORGANISING COMMITTEE

On behalf of the organising committee, I would like to welcome all distinguished guests and participants to the 39th Asian Conference on Remote Sensing (ACRS 2018). I would like to thank Asian Association on Remote Sensing (AARS) and member countries, for entrusting Malaysian Remote Sensing Agency (MRSA) of the Ministry of Energy, Science, Technology, Environment and Climate Change (MESTECC), Malaysia to organise this conference for the fourth time. The previous conferences hosted by Malaysia were in the year of 1989, 1997 and 2007.

This conference is attended by more than 500 participants from 43 countries. The secretariat has received an overwhelming response of technical papers which totalled more than 600, out of which, only 637 were able to be accommodated for both the Oral (501) and Poster (136) sessions.

I would like to take this opportunity to express my heartfelt gratitude to all organising committee members, both local and international, and those who are involved directly or indirectly, in ensuring the success of this conference. Last but not least, on behalf of the Organizing Committee, I would like to wish all participants a successful conference with fruitful deliberations, and memorable stay in Malaysia.

Thank you.

AZUKAML

AZLIKAMIL NAPIAH Director General of Malaysian Remote Sensing Agency (MRSA) and Chairman of Local Organising Committee

MESSAGE BY GENERAL SECRETARY OF AARS



Dear International Colleagues,

On behalf of the Asian Association on Remote Sensing (AARS), I would like to welcome you all to the 39th Asian Conference on Remote Sensing (ACRS) to be held from 15th to 19th October 2018 at Renaissance Kuala Lumpur Hotel, Kuala Lumpur, Malaysia. The main theme of the conference is "Remote Sensing Enabling Prosperity". Asia is rapidly glowing. But, at the same time, we have many disasters and environmental problems in Asia. In order to achieve lasting prosperity in this region, appropriate environment and natural resources management with remote sensing is necessary. Various topics including data processing, GIS, GNSS, and remote sensing on many application fields will be discussed at the conference.

Actually, this is the fourth time for Malaysia to organize ACRS, the first time in 1989, the second time in 1997 and the third time in 2007. This means that Malaysia is one of the main players in ACRS. Two Months ago, I have visited Kuala Lumpur and had a good discussion with the Local Organizing Committee (LOC) on the preparation for ACRS2018. I was quite impressed with the excellent team work of LOC leaded by Mr. Azlikamil Napiah, the director of the Malaysian Remote Sensing Agency (MRSA). I have no doubt on the success of the conference. Let us get together at ACRS2018 organized in the beautiful city of Kuala Lumpur.

Thank you.

PROF. KOHEI CHO General Secretary, Asian Association on Remote Sensing (AARS)

DATE Session time Venue Session Moderator 15 OCTOBER 2018, MONDAY 1030 - 1230 Ballroom A Pls01 Remote Sensing and Good Governance MR. Azlikamil Napiah



Time : 1030 - 1110 Title : Remote Sensing Education for Good Governance

PROF. IR. DR. MD AZLIN MD SAID Pusat Pengajian Kejuruteraan Awam Kampus Kejuruteraan, Universiti Sains Malaysia

Ir. Dr. Md Azlin Md Said is a Professor at School of Civil Engineering, Universiti Sains Malaysia (USM). He studied engineering at the University of Liverpool, United Kingdom both for B.Sc. and M.Sc. degree. He received his Ph.D. degree from the University Wales, United Kingdom. His professional interests comprise all aspects of environmental remote sensing, Geography Information System (GIS) and Satellite System.



Time : 1110 - 1150 Title : Challenges In Spatial Planning and Development

PPJ MOHD NUR LOKMAN SAMINGAN Malaysian Anti-Corruption Commission (MACC)

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Mohd Nur Lokman Bin Samingan Mr Mohd Nur Lokman bin Samingan joined Malaysian Anti-Corruption Commission (MACC) in 2005 (previously known as Anti-Corruption Agency). He had vast experiences in investigation and prosecution in corruption cases. He was attached in Ministry of International Trade and Industry in Integrity Unit in 2004. He is now at Community Education Division of MACC Headquaters in Putrajaya leading Private Sector Branch. He has involved and engaged with industry player and community in giving lecturers, seminar and talks. He has also been assigned as MACC speaker international conferences for anti-corruption awareness.



Time : 1150 - 1230 Title : Environmental Auditing

MR. KHALID KHAN ABDULLAH KHAN Deputy Auditor General National Audit Department Malaysia

Mr. Khalid Khan joined the National Audit Department (NAD) of Malaysia in December 1985. He graduated from the University of Malaya in 1985 and obtained his master degree in Computing from the University Wales, United Kingdom in 1995. He had attended courses on Accounting and Finance, IT Audit and Senior Leadership Programme from the University of Cambridge, London School of Economic, Japan International Cooperation Agency and also Ket de Vries Institute. In his 33 years in public sector auditing, he has been involved in financial, performance and IT Audit at both the Federal and State Governments. Statutory Bodies, Local Authorities, Islamic Councils as well as Government Linked Companies. For the period 2000 to 2006, he was in charge of research, planning and the international affairs and a member of the ASOSAI Research Team on ICT Audit Guidelines in 2003. He heads the NAD'S secretariat for the 18th Commonwealth Auditor General Conference 2003, 13th ASOSAI Assembly 2015 and 6th ASOSAI Symposium 2015 held in Kuala Lumpur.

DATE SESSION TIME VENUE SESSION MODERATOR 16 OCTOBER 2018, TUESDAY 1400 - 1530 BALLROOM A PLS02 WEALTH CREATION AND PROSPERITY PROF. DR. BRUCE FORSTER

Time : 1400 - 1430 Title : Does Remote Sensing Enable Prosperity

PROF. DR. BRUCE FORSTER Managing Director Asia-Pacific Remote Sensing Pty Ltd

Prof. Dr. Bruce Forster is a former Professor and Visiting Professorial Fellow University of New South Wales, Sydney, Australia. He holds a Bachelor of Surveying and Master of Surveying from Melbourne University. He also has Master of Science from Reading University, UK; and PhD Remote Sensing and GIS from University of New South Wales, Australia. Has extensive experiences in remote sensing results in years of working on surveying and mapping, particularly in the fields of spatial information and remote sensing. He involved in training and advisory projects in remote sensing, EO and GIS for the UN, AUSAID, Asian Development, and World Bank, Australian Space Office, and government and academic organizations in Australia, Asia and Europe. As the Managing Director of Asia-Pacific Remote Sensing Pty Ltd, he undertakes consulting, training and analysis related to land and near coastal studies using remotely sensed data, including high resolution and radar image data from airborne and space platforms.



Time	1	1430 - 1500	
Title		Future Digital Mapping	ľ

PROF. CHRISTIAN HEIPKE

President of Internationa Society of Photogrammetry and Remote Sensing (ISPRS)

Christian Heipke was born in Lüneburg, Germany in 1961. From 1980 to 1986 he studied Geodetic Sciences and Surveying at the universities of Hannover, Sydney, and Munich. He graduated from the Technical University Munich and subsequently joined the Industrieanlagen-Betriebsgesellschaft (IABG), Ottobrunn as a Research Scientist. In 1990 he became Research Fellow at the Chair for Photogrammetry and Remote Sensing, Technical University Munich. In the same year he received a Ph.D. degree (Dr.-Ing.) and in 1994 the venia legendi (Dr.-Ing. habil.), both from TU Munich.

His professional interests comprise all aspects of digital photogrammetry & remote sensing, image understanding and their connection to GIS and computer vision. His two areas of special expertise are automatic sensor orientation and object extraction from images.

Christian Heipke has chaired Working Groups of the International Society for Photogrammetry and Remote Sensing (ISPRS) for 16 years and was vicepresident of EuroSDR (European Spatial Data Research, formerly known as OEEPE) from 2004-2009, in which he was responsible for research. From 2011-2014 he was chair of the German Geodetic Commission (DGK), from 2012-2016 ISPRS Secretary General. Currently he serves as ISPRS President.



Time

Title :

From Space to People: Leveraging Technical Innovations Through Collaboration with Local Actors

MR. PATRICE GALEY Business Development Asia, AIRBUS Intelligence

1500 - 1530

Patrice is in charge of Business Development, at Airbus Defence and Space, Intelligence business line. He is responsible for Key Account Management in Asia Pacific with a focus on Direct Receiving Services as well as advance Solutions. Prior to this, Patrice held various positions in Airbus, formerly Spot Image/EADS, in the domains of Marketing, Project Management and Sales Planning and Management. His main domain of expertise is Strategy and Sales Management but he has also experience in Marketing and Business Development. Patrice has a double degree in Mathematics/Economy and Business Management with a specialization in Aerospace Management. Patrice has been working in many international environments during his career from Middle East (Aeronautics Industry), to North America (Airlines) and is very familiar with Asian markets.

DATE **SESSION TIME** VENUE **SEGGIUN** MODERATOR

18 OCTOBER 2018, THURSDAY 1400 - 1530 BALLROOM A PLS03 HUMANISING TECHNOLOGY AND DATA DR. ORBITA ROSWINTIARTI



1400 - 1430 Time

Title

Earth Observation Data and Products for Supporting Disaster Management and Preparedness Activities in Indonesia

DR. ORBITA ROSWINTIARTI Deputy Chairman for Remote Sensing Affairs. Indonesian National Institute of Aeronautics and Space (LAPAN)

Dr. Orbita Roswintiarti is currently the Deputy Chairman for Remote Sensing Affairs, National Institute of Aeronautics and Space (LAPAN), Indonesia. She graduated with a B.Sc. (Hons) in Physics from Bandung Institute of Technology, Indonesia. In December 1991 she received MSc. (Atmospheric Science) from North Carolina State University Raleigh, USA and Ph.D (Atmospheric Science) in December 1999, also from North Carolina State University Raleigh, USA.

She had vast experiences in remote sensing technology especially in the field of natural resources and environmental monitoring. Among others are her involvement in the Southeast Asian Fire Danger Rating System (FDRS) Project with the Canadian Forest Service, Edmonton,

Time Title

1430 - 1500 **Cloud Enabled Satellite Imagery- Creating New Business** Models and Opportunities for Small and Medium Enterprises

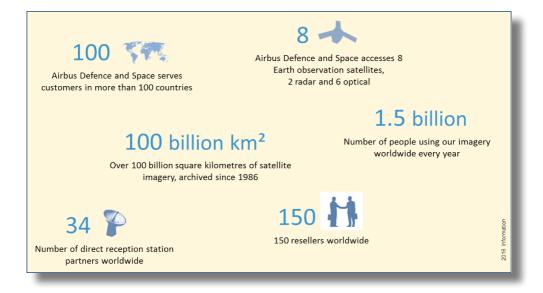
MR. GORDON STAPLES Senior Analyst/Project Manager, MDA

Gordon Staples received the M.Sc. degree in ocean physics and the B.Sc. degree in honours physics and oceanography from the University of British Columbia. He joined MDA in 1993 and is currently Senior Analyst and Project Manager for the Geospatial Group. In this role, he oversees the geospatial services group, manages research projects, develops and delivers radar training, and is active in business development. He has extensive experience in radar polarimetry and the development of radar applications. Gordon is the President of the Canadian Remote Sensing Society. He is a member of the IEEE and the CRSS.

STRATEGIC PARTNERS

AIRBUS

The Intelligence Programme Line of Airbus Defence and Space is the supplier of choice for commercial satellite imagery, C2ISR systems and related services. Airbus Defence and Space has unrivalled expertise in satellite imagery acquisition, data processing, fusion, dissemination and intelligence extraction allied to significant command and control capabilities. The company is able to create a comprehensive situational awareness picture and deliver sophisticated end-to-end solutions across all commercial, institutional and defence markets. Based upon exclusive commercial access to Pléiades, SPOT, TerraSAR-X and TanDEM-X satellites, combined with broad applications experience, the company delivers an extensive portfolio spanning the entire geo-information value chain. For more information, please visit our corporate website at *https://www.intelligence-airbusds.com*.



STRATEGIC PARTNERS



A MAXAR COMPANY



MDA, a Maxar Technologies company, has been a trusted provider of industry-leading radar satellite systems and imagery, ground systems, space robotics and sensors, satellite antennas, electronics and payloads, surveillance and intelligence solutions, and defence systems for customers in international government and commercial sectors for five decades. The company's breadth of expertise, and long history of innovative industrial firsts has made it the go-to source for advanced technology and mission-critical solutions for exploring space, and monitoring and understanding land and maritime change and activity anywhere on Earth.

MDA provides infrastructure and operations, advanced radar analytics, services and data commercialization using synthetic aperture radar (SAR). SAR technology captures imagery in all types of weather, seeing through clouds, fog, and darkness - capabilities that are particularly useful in regions internationally that are prone to cloud cover and those that have little or no daylight during the winter months.

MDA is the leading provider of advanced geospatial information solutions derived from the high-resolution RADARSAT satellites, commercial optical satellites, and aerial systems. Our experience successfully delivering near real-time information solutions for complex and demanding operational support has made us a primary source of geospatial solutions for the Oil and Gas, Defence and Security, Disaster Management, Aviation, Natural Resources, Agriculture, and Mining markets.

OPENING CEREMONY



VENUE : BALLROOM A, RENAISSANCE KOALA LUMPUR HOTEL

DATE : 15 OCTOBER 2018

OPENING CEREMONY

0800	Arrival of ACRS 2018 Participants and Guests
0830	Arrival of VIP
0845	Arrival of YB Yeo Bee Yin Minister of Energy, Science, Technology, Environment and Climate Change
0850	National Anthem "Negaraku"
0855	Doa Recitation
0900	Welcoming Speech by Mr. Azlikamil Napiah Director General of Malaysian Remote Sensing Agency (MRSA) and Chairman of Local Organizing Committee
0905	Speech by Prof. Christian Heipkie President of International Society of Photogrammetry and Remote Sensing (ISPRS)
0910	Speech by Prof. Dr. Kohei Cho General Secretary of AARS
0920	Opening Speech by YB Yeo Bee Yin Minister of Energy, Science, Technology, Environment and Climate Change
	Chen Shupeng Award Ceremony
0945	Wefie Session
1000	End of Opening Ceremony



VENUE : WOW KL!, JALAN AMPANG, KUALA LUMPUR DATE : 15 OCTOBER 2018

GALA DINNER

- 1945 Arrival of ACRS 2018 Participants and Guests
- 2000 Arrival of VIP
- 2015 Welcoming Remarks by AIRBUS Representative

Special Remarks by Prof. Dr. Kohei Cho General Secretary of AARS

- 2030 Dinner and Cultural Performance
- 2230 End of Gala Dinner





ACRS2018 THE 39TH ASIAN CONFERENCE ON REMOTE SENSING KUALA LUMPUR

VENUE	:	BALLROOM A,
		RENAISSANCE KUALA LUMPUR HOTEL
DATE	1.1	19 OCTOBER 2018

CLOSING CEREMONY

1000 Award Ceremony

Remarks by Prof. Dr. Kohei Cho General Secretary of AARS

Closing Remarks and Presentation of the Report of the 39th Asian Conference on Remote Sensing by Mr. Azlikamil Napiah Director General of MRSA and Chairman of Local Organizing Committee

1130 End of Ceremony & Conference

ACRS 2018 CONFER

	0830 - 1015 hrs	1015 - 1030 hrs	1030 - 1230 hrs	1230 - 1400 hrs		
Day 1 - Monday (15th Oct 2018)	Opening Ceremony	Tea Break	PLS01: (Plenary Session-1) Remote Sensing and Good Governance 6th ASEAN Workshop	Lunch	SS	
	(Invited Members)		(Invited Members)			
Day 2 - Tuesday (16th Oct 2018)	T515: PARTGIS - 3 T516: MARCOS - 3 T517: URBAN - 3 T518: CHGDET - 1 T519: AGPLAN - 3 T520: HYDRO - 2 T521: DEM3D - 1 T522: RSAPP - 1 SS02: JAXA Special Session	Tea Break	TS23: PARTGIS - 4 TS24: MARCOS - 4 TS25: UVDRON - 1 TS26: CHGDET - 2 TS27: AGPLAN - 4 TS28: HYDRO - 3 TS29: DEM3D - 2 TS30: GNSSTEC - 1 SS02: JAXA Special Session	Lunch		
Day 3 - Wednesday (17th Oct 2018)	TS31: PARTGIS - 5 TS32: RADAR - 1 TS33: LIDPRO - 1 TS34: CHGDET - 3 TS35: AGPLAN - 5 TS36: DISMGT - 1 TS37: UVDRON - 2 SS03: WEBCON ST01: GROUNDSAT	Tea Break	TS38: PARTGIS - 6 TS39: RADAR - 2 TS40: LIDPRO - 2 TS41: CHGDET - 4 TS42: AGPLAN - 6 TS43: DISMGT - 2 TS44: UVDRON - 3 SS03: WEBCON CS02: Commercial Session	Lunch		
Day 4 - Thursday (18th Oct 2018)	TS59: FEATEXT - 1 TS60: RADAR - 5 TS61: FUSION - 1 TS62: WEBGIS - 3 TS63: AUTOCLASS - 3 TS64: DISMGT - 3 TS65: CLIMATE - 1 TS66: GISAPP - 1 ST03: 4IR	Tea Break	TS67: HYPER - 1 TS68: MBGIS - 1 TS69: DIGIPHOTO - 1 TS70: RSAPP - 2 TS71: ENVHLT - 1 TS72: DISMGT - 4 TS73: CLIMATE - 2 TS74: GISAPP - 2 CS04: Commercial Session	AARS GC-02 (Invited Members) Lunch	Hui	
	0830 - 1000 hrs	100	00 - 1130 hrs	1130 - 1230 hrs		
Day 5 - Friday (19th Oct 2018)	PLSO4: (Plenary Session-4) Challenges in Wealth Creation and Prosperity	Closir	ng Ceremony	Lunch		

SS-Special Session, ST-Special Topic, TS-Technical Session, PLS-Plenary Session, PS-Poster Session, CS-Commercial Session, GC-General Confe Session, 6th ASEAN Workshop - The 6th ASEAN

PARTIGIS-Participatory GIS Applications; AGPLAN-Agriculture and Plantation; CHGDET-Change Detection; DISMGT-Disaster Management; F Environmental Health; DEM3D-DEM/3D; HIRPRO-High Resolution Data Processing; SOCPROS-Societal Well-Being for Prosperity; GROUNDS GIS Applications; 4IR-4th Industrial Revolution; AUTOCLASS-Automatic Classification; FEATEXT-Feature Extraction; GISAPP-2D/3D/4D GIS Ap Application of New Sensors; DIGIPHOTO-Digital Photogrammetry; MARCOS-Marine and Coastal; UVDRON-UAS

Ballroom A	Room 1	Room 2	Room 9	Room 10	Room 3	Room 4	Room 5	Room 6	Room 7	
Opening /PLS/SS/	ALAM	ANDA JASMINE		SAKURA	TULIP	ROSE	ORCHID	LILY		
ST/CS/Closing	Parallel Session									

ENCE PROGRAMME

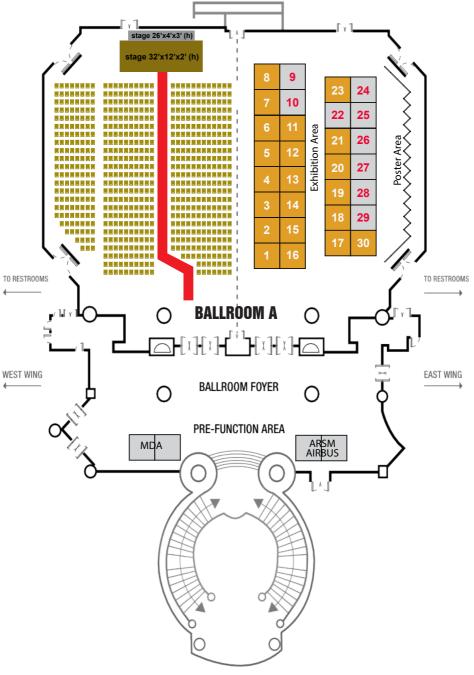
ENCE FRUGRAM					
1400 - 1530 hrs	1530-1545	1545 - 1715 hrs	1715 - 1745	1800 - 1900 hrs	1945 - 2230 hrs
TSO1: PARTGIS - 1 TSO2: MARCOS - 1 TSO3: URBAN - 1 TSO4: HIRPRO - 1 TSO5: AGPLAN - 1 TSO5: FOREST - 1 TSO7: APSEN - 1 01: MDA Special Session Gth ASEAN Workshop (Invited Members)	Tea Break	TS08: PARTGIS - 2 TS09: MARCOS - 2 TS10: URBAN - 2 TS11: HIRPRO - 2 TS12: AGPLAN - 2 TS13: HYDRO - 1 TS14: GEOSCI - 1 CS01: Commercial Session 6th ASEAN Workshop (Invited Members)	CS01: Commercial Session		GALA Dinner (WOW KL)
PLSO2: (Plenary Session-2) Wealth Creation and Prosperity	Tea Break	GMS01: Glocal Monitoring Session PS01: POSTER SESSION ASPS01: Asian Satellite Programme Session		AARS GC-01 (Invited Members)	AARS Dinner (R-Studio)
TS45: PARTGIS - 7 TS46: RADAR - 3 TS47: LIDPRO - 3 TS48: WEBGIS - 1 TS49: AUTOCLASS - 1 TS50: FOREST - 2 TS51: CALVAL - 1 SO4: WHITE ELEPHANT ST02: SOCPROS	Tea Break	TS52: PARTGIS - 8 TS53: RADAR - 4 TS54: GEOSCI - 2 TS55: WEBGIS - 2 TS56: AUTOCLASS - 2 TS57: FOREST - 3 TS58: CALVAL - 2 SS05: STUDENT SESSION CS03:Commercial Session			Student Night (Concourse)
PLSO3: (Plenary Session-3) nanising Technology and Data	Tea Break	PS02: POSTER SESSION			
	1300 - 1800 hrs				
	City Tour				

rence (of AARS), WEBCON-Web Contest, White Elephant, Student Session, GMS-Glocal Monitoring Session, ASPS-Asian Satellite Programme I Workshop on Ground Station Experts Exchange

tADAR-Radar; HYPER-Hyper Spectral RS; CALVAL-Calibration/Validation; CLIMATE-Climate Change and Its Impact; ENVHLT- Environment and AT-Ground Station and Satellite Programme; URBAN-Urban and Regional Planning and Smart City Planning; FOREST-Forestry; WEBGIS-Web plications; GNSSTEC-CORS GNSS Technology; FUSION-Data Fusion; MBGIS-Mobile GIS Applications; LIDPRO-LiDAR Data Processing; APPSENi/UAV/Drone; RSAPP-Remote Sensing Application; GEOSCI-Geoscience; HYDRO-Hydrology and Water Resources

Room 8	WOW KL	R-Studio	Concourse	Ballroom B	
LOTUS	GALA Dinnor	GALA Dinner AARS GC/ Student Night Exhibitio	Exhibition / Poster Area	City Tour	
	GALA Diliner	Dinner	Student Night	Exhibition y Poster Area	

EXHIBITION BOOTH LAYOUT



EXHIBITION BOOTH LAYOUT

8 Jaxa, Japan	9
7 Restec, Japan	10
6 University of Seoul, Korea	11 GROUND DATA SOLUTIONS
5 INFINITY Success Solutions Sdn. Bhd, Malaysia 4	12 ST ENGINEERING ELECTRONICS 13 SPECTRIS PTE. LTD. SINGAPORE
3 Beijing Space View Technology	14 DAEJEON INT. MARKETING ENT. KOREA
2 Sky-shine Malaysia	15 SURREY SATELLITE TECHNOLOGY 16 21AT
1	SINGAPORE

Exhibition Area







Sky-Shine Corporation (M) Sdn Bhd

Sky-Shine Corporation (M) Sdn Bhd was formally incorporated and registered with the Register of Company Malaysia on February 1995. The company was founded and wholly owned by a group of professional Bumiputras. Sky-Shine Corporation is a long standing



player of the Geospatial Industry and has strong presence in Malaysia specialized in providing GIS and RS Geospatial Solutions to the geospatial community of the nation. Based on the years knowledge Sky-Shine is fully geared to provide the applications to suite the current geospatial user needs. Sky-Shine providing turnkey geospatial solutions integrating precise hardware and software up to delivering and integrating valuable geospatial data such as high resolution (DigitalGlobe) and medium resolution optical satellite imagery, satellite borne (RADARSAT), airborne radar (IfSAR) data and LiDAR.

Sky-Shine Corporation also a leading supplier of Surveying and Mapping Instrumentation to the Government Authority and Higher Learning Institution in Malaysia. We are the authorized distributor of TOPCON Surveying System and specialize in Total Station, Digital Level and Global Positioning System (GPS). Our technical and sales people are factory trained to offer training and support for all the equipment sold. At Sky-Shine, our objectives are clear; to optimize client satisfaction, to provide efficient and cost-effective service on time and in budget

Address	:	52-3, Blok H, Platinum Walk, Jalan Langkawi, Danau Kota, Setapak,53300 Kuala Lumpur
Contact Person	:	Mohd Hamdan Bin Ismail, Managing Director
Contact Number	:	+603-41433 078
Fax Number	:	+603-41433078
E-mail	:	sscmh@pd.jaring.asia
Website	:	www.skyshine.com.my



Beijing Space View Technology Co., Ltd.



plànet.

Located in Beijing, Beijing Space View Technology Co., Ltd. (Space View) is a leading provider of Earth-observation satellite data and geospatial information services. The company business covers optical and SAR satellite imagery, data processing, value-added products, software and solutions.

Commercial Marketing Operator of SuperView

SuperView is a commercialized Earth-observation satellite constellation with very high resolution. Up to now, four 0.5 m optical satellites are orbiting in space. Better-performed optical satellites, SAR satellites, hyperspectral satellites, and video satellites are being programmed. As the global marketing operator of SuperView, Space View not only provides the imaging services but also promotes construction of direct-receiving and virtual stations around the world.

Authorized Distributor of Chinese Imaging Satellite Data

Authorized by Chinese government, Space View is the global distributor of Chinese Earthobservation satellite data. The satellites include GF-4, GF-3, GF-2, GF-1, ZY-3, ZY-3 02, etc.

Address	:	5th Floor, B Building, Yicheng Center 11, Changchunqiao Road, Haidian District District, State Beijing, China 100089
Contact Person Contact Number	:	Fiona Yu, Global Marketing +86-10-58818811 ext.840
Fax Number Website	:	+86-10-58818896 http://www.spaceview.com/english/



Infinity Success Solutions Sdn Bhd - Planet

We are a multi-disciplinary Geospatial products company operates and aspires to deliver value perspectives to the clients. Here is our several core business:

- Remote sensing imageries & Solutions
- Environment monitoring & Solutions
- Geospatial data collection and Mapping services
- Geographical Information Systems (GIS) Solutions
- System Customize and Development
- Geospatial Data Management
- Training & Consultancy

Address	:	No.27, Jalan 7/40, Taman Pusat Kepong, Taman Pusat Kepong,
		52000 Kepong, Kuala Lumpur, Malaysia.
Contact Person	:	Charmine Chow, Sales Support Manager
Contact Number	:	+6016-511 8426
Fax Number	:	+603- 6250 8188
E-mail	:	sales@infinityss.com.my
Website	:	www.infinityss.com.my



Lab. for Advanced Remote Sensing

Our mission is to advance the development and application of remote sensing to monitor natural and environment resources through research. Currently we are

focused on the Disaster monitoring, Environment Monitoring and Multi-sensor Image Processing.

Address	:	Lab. for Advanced Remote Sensing, University of Seoul, 163,
		Seoulsiripdae-ro, Dongdaemun-gu, Seoul, Republic of Korea
Contact Person	:	Hyung-Sup Jung, PhD
Contact Number	:	+82-2-6490-5682
Fax Number	:	+82-2-6490-2884
E-mail	:	kara1003@uos.ac.kr
Website	:	https://cafe.naver.com/uosrs/6



Remote Sensing Technology Center of Japan



RESTEC was established in August 1975 to implement basic, comprehensive research and development of remote-sensing

technology for investigating global phenomena and Earth resources using satellite data and disseminating knowledge of remote-sensing technology and other utilization of space technology in order to promote economic growth and social development as well as the well-being of the nation.

Address	:	TOKYU REIT Toranomon Building 2F 3-17-1 Toranomon, Minato - ku, Tokyo 105 - 0001, Japan
Contact Person	:	Yuzuru KUSHIYAMA, Kyoichi ITO
Contact Number	:	+81-3-6435-6700
Fax Number	:	+81-3-5777-1580
E-mail	:	kussiee@restec.or.jp, e-ito3@restec.or.jp
Website	:	https://www.restec.or.jp/en/about



서울시립대학교 원격탐사연구실 Lab for Advanced Remote Sensing



Japan Aerospace Exploration Agency (JAXA)



The Japan Aerospace Exploration Agency (JAXA) is a core performance agency to support the Japanese government's overall aerospace development and utilization. JAXA conducts integrated operations from basic

R&D to utilization. JAXA provides accurate and systematic information that elucidates earth environment change process and supports our lives by continuous earth observation using satellites.

Address	:	Earth Observation Research Center, JAXA Tsukuba Space Center 2-1-1 Sengen, Tsukuba, Ibaraki 305-8505, Japan
		5 / / / /
Contact Person	:	Ryo Michishita, Ph.D.
Contact Number	:	+81-50-3362-4116
Fax Number	:	+81-29-868-2961
E-mail	:	acrs2018@ml.jaxa.jp
Website	:	http://global.jaxa.jp/



Ground Data Solutions R&D Sdn Bhd

Ground Data Solutions R&D Sdn Bhd (GDS) is an airborne LiDAR and digital imagery

survey service provider, providing fast, accurate and cost effective topographical mapping solutions since 1989. Our clients include professionals from Water Catchment, Flood and Slope Management, Dam, Road, Transmission Line, Pipeline, Railway, Mining, Telecommunication and Urban Planning, Forestry and Agricultural industries in Malaysia and abroad. GDS can now provide the highest resolution LiDAR and imagery data with its new Riegl Q780-400kHz waveform laser scanner and Phase-One 80MP metric camera and also offer software solutions for online LiDAR data management.

GROUND DATA SOLUTIONS

Address	:	Lot 6, Jalan 51A/223, 46100 Petaling Jaya, Selangor.
Contact Person	:	Dr. Ebrahim Taherzadeh Mobarakeh
Contact Number	:	+603-79579414
Fax Number	:	+603-79559246
E-mail	:	admin@grounddatasolutions.com
Website	:	http://www.grounddatasolutions.com/



ST Engineering Electronics

ST Engineering Electronics has more than 40 years of experience in providing Intelligent Transportation systems, Satellite and broadband communications,

Information Communications Technologies (ICT) solutions to governments and commercial enterprises worldwide. Marketed under the AgilSpace brand, ST Engineering Electronics delivers satellite manufacturing, operations, exploitation and data analytics for applications covering maritime security & safety, urban infrastructure planning, environmental/ agricultural monitoring and more.

Address	:	ST Electronics (Satcom & Sensor Systems) Pte Ltd. 1 Ang Mo Kio Electronics Park Road, ST Engineering Hub #06-02 Singapore 567710
Contact Person	:	Bernard Tay Boon Teck
Contact Number	:	65217385
E-mail	:	tay.boonteck@stee.stengg.com
Website	:	https://www.stengg.com/en/singapore-technologies-engineering/



MalvernPanalytical Pte Ltd.

ASD Inc., a Malvern Panalytical company, is the global leader in high-performance analytical instrumentation solutions, solving some of the most challenging real-world materials measurement



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Electronics

problems. ASD spectrometers — unparalleled in providing laboratory-grade results in the field or on-site — are the instruments of choice for remote sensing, environmental sciences, agricultural, mining, pharmaceutical and pulp and paper industry applications, where results drive paradigm-changing insights, efficiency and profit. ASD spectrometers and spectroradiometers provide state-of-the-art, real-time performance. These instruments, when combined with ASD's software and support tools create powerful information that helps you to improve, simplify, and streamline your research and production processes, ideal for a multitude of materials measurement solutions.

Address	:	DKSH Technology Sdn Bhd - Exclusive Distributor of Malvern Panalytical, B-11-01, The Ascent, Paradigm, No. 1, Jalan SS
		7/26A, Kelana Jaya, 47301, Petaling Jaya, Selangor, Malaysia
Contact Person	:	Jia Jun Fong, Specialist, Technical Sales
Contact Number	:	+6012 885 6871
Fax Number	:	+603 7882 6333
E-mail	:	jia.jun.fong@dksh.com
Website	:	http://dksh.com/my-en/home



Daejeon International Marketing Enterprise (DIME)



The 40th Asian Conference on Remote Sensing in Daejeon, Korea

ACRS 2019 will be held in Daejeon, Korea. Located in the center of Korea, Daejeon is a Korea's science and technology with Daedeok Innopolis, a research cluster, housing about 70 public and private research institutes including the Korea Aerospace Research Institute. We look forward to having the pleasure of welcoming you in Daejeon in 2019.

Address	:	107, Expo-ro, Yuseung-Gu, Daejeon, Korea
Contact Person	:	Jiny seo, Assistant Manager
Contact Number	:	+82.42.250.1327
Fax Number	:	+82.42.250.1330
E-mail	:	seojinhee37@dime.or.kr



Surrey Satellite Technology Ltd

Surrey Satellite Technology Ltd is at the forefront of space innovation; disrupting the conventions of small



satellite design and exploiting new technologies, to bring affordable space missions to our global customers. We draw on our years of expertise to take a pragmatic approach to bring customers the very best solutions for their business case. That's what makes us a world-leader in the space sector.

Address	:	Tycho House, 20 Stephenson Road, Surrey Research Park Guildford, Surrey, GU10 1DH, United Kingdom
Contact Person	:	Alex da Silva Curiel, Regional Head Business Development
Contact Number	:	+44 1483 803803
Fax Number	:	+44 1483 803804
E-mail	:	info@sstl.co.uk
Website	:	www.sstl.co.uk



Twenty First Century Aerospace Technology (Asia) Pte. Ltd.

Twenty First Century Aerospace Technology (Asia) Pte. Ltd. (21AT Asia) has been established in Singapore since July 2014. 21AT Asia is a provider of commercial high-resolution remote sensing imagery products and its value.

added services. Our space technology R&D center in Singapore carry out high-resolution image processing research and development, remote sensing information services and applications, new remote sensing devices and equipment. In Singapore office, we have a team of trained and experienced engineers who will manage, process the data and delivery to the customers globally.

Address	:	61 Science Park Road, #05-17 The Galen, Singapore Science Park II, Singapore 117525
Contact Person	:	Mr. Derrick Lim, Business Development Manager
Contact Number	:	+65 6351 1399
Fax Number	:	+65 6464 0598
E-mail	:	enquiry@21at.sg
Website	:	http://www.21at.sg



KQ GEO Technologies Co. Ltd



Founded in May 2001, KQ is one of the leading providers of TECHNOLOGIES geospatial solutions for government agencies and enterprise. With continuous investment in geospatial core technologies, KQ has developed competitive GIS software, GNSS and RS products. For more than a decade, KQ successfully customized plenty of solutions for different sectors, including but not limited to Land Resources, Agriculture, Forestry, Water Conservancy, City Utilities and Surveying & Mapping, etc.KQ has hosted or participated in a large number of key research projects of different institutions, including United Nations Development Program (UNDP), National Development and Reform Commission (DNRC), Ministry of Science and Technology, Local Land Departments, etc. More than 50 industrial honors have been awarded to KQ for its excellent performance in these projects and its technological development.

In domestic market in China, KQ has maintained fast growth in past years. By 2009, KQ broke the record to USD15 million in its sales revenue and by 2017, the revenue increased to USD150 million. To support this growing sales network, KQ has set up 42 branch offices and 5 technical centers across China to guarantee our best service to customers At the same time, KQ started its exploration in overseas market. By now, KQ has established several overseas marketing centers in ASEAN countries including Malaysia, Thailand and Indonesia, to understand local customers better, and promote our business & brand there. We have carried out several smart projects, which help to improve city governance significantly.

Address	:	Suite 4105 Level 41, Vista Tower, The Intermark
		348 Jalan Tun Razak, 50400 Kuala Lumpur
Contact Person	:	Lo Sze Kee
Contact Number	:	+60123972896
E-mail	:	sklo@kqgeo.net
Website	:	www.kqgeo.com/en



National Space Organization

Vision

- Become a center of innovation and excellence for space technology
- · Conduct space programs with Taiwan's strength and global competitiveness

Mission

- Establish indigenous space technology
- Fulfill pronounced societal impacts
- Promote frontier space science research

Value

- Innovative space technology
- Core competence heritage
- Elite integrity team

Address	:	8F, 9 Prosperity 1st Road, Hsinchu Science Park, HsinChu, Taiwan, R.O.C.
Contact Number	:	+886-3-578-4208
Website	:	http://www.nspo.narl.org.tw



REDPLANET SOLUTIONS SDN BHD

RedPlanet provided premier GIS software consulting services. We employ consultants services using GIS, AM/FM software solutions from GE SmallWorld, ESRI, Hexagon,Google and Oracle among other leading enterprise



GIS solutions provider. At RedPlanet we strive to help our customers optimize and enhance their business processes by implementing GIS solutions.

We Speciallize in :

- Enterprise Wide GIS
- Web & Mobile Solutions
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Address	:	Unit 25-12, Q Sentral, 2A, Jalan Stesen Sentral 2, 50470 KL
		Sentral, Kuala Lumpur
Contact Person	:	NizamZakaria
Contact Number	:	+60192444867 / +603 27124620
Fax Number	:	+603 27124620
E-mail	:	nizam@redplanet.com.my
Website	:	www.redplanet.com.my





PCI Geomatics



PCI Geomatics, established in 1982, is a privately held Canadian **GEOMATICS** software development company that creates and delivers geo-image software products, platforms, and solutions for demanding global customers. We develop complete and integrated software featuring the tools professionals need for remote sensing, digital photogrammetry, image analysis, map production, mosaicking and more. Our strength lies in our uncompromising dedication to being second to none in the imagery processing pillars that are at the foundation of the geospatial world. Our dedicated staff develops desktop and enterprise software products that allow our customers to produce information from a myriad of aerial and satellite earth observing platforms. Our vision for the future is to make the world a better place by maximizing the value of geoimagery.

Address	:
Contact Person	:
Contact Number	:
Fax Number	:
E-mail	:
Website	:

90 Allstate Parkway, Suite 501, Markham, ON, L3R 6H3, Canada Steven Corr, Territory Manager 1+ (905) 764-0614 1+ (905) 764-9604 harris@pcigeomatics.com www.pcigeomatics.com



GPS Lands (M) Sdn. Bhd.



GPS Lands (M) Sdn Bhd - subsidiary of GPS Lands (Singapore) Pte Ltd is a leading Geospatial and

Mapping Technologies solution provider in the ASEAN region.

GPS Lands provides a full array of multi-disciplinary capabilities, system integration, training and consultancy, and high value-added engineering services in the following core business groups:

- Mapping & Geographical Information Systems
- Utility Field Solution
- Civil Engineering Software Solution
- Software Development & Custom Applications
- Service & Care Centre
- Training & Consultancy

Renowned in the vertical markets that we served are our comprehensive customized solutions, coupled with our well-recognized excellent training and support services. Our ultimate goal is to become a "Choice Partner" to support all our valued customers to meet with the dynamic future.

Address	:	No. 6, Jalan Putra Mahkota 7/8A, Putra Point, Business Centre,
		Putra Heights, 47650 Subang Jaya, Selangor, Malaysia.
Contact Person	:	Lim Chin Hooi, Sales & Support Manager
Contact Number	:	+603 5192 0588
Fax Number	:	+603 5192 0188
E-mail	:	enquiry@gpslands.com.my
Website	:	www.gpslands.com.my



Beijing PIESAT Information Technology Co., Ltd.



Founded in 2008, Beijing PIESAT Information Technology Co., Ltd. (PIESAT for short) is a Chinese high-tech enterprise specializing in research and application of satellite technology (Remote sensing satellite and Navigation satellite). PIESAT has independently developed software Pixel Information Expert (PIE), offering its clients integrated solution of geospatial information application. PIESAT also provides IT project consulting service to national satellite projects and other industries.

Address	:	The 5th floor, No.A1 Building, Yi Yuan, HaiDian District, Beijing,
China.		Zip code: 100195
Contact Person	:	Niebin
Contact Number	:	4008900662/ (86) 010-82556203
Fax Number	:	(86) 010-82556924
E-mail	:	niebin@piesat.cn
Website	:	http://www.piesat.cn/en/index.html



SI Imaging Services (SIIS)

SI Imaging Services (SIIS) is the exclusive worldwide marketing and sales representative of KOMPSAT series KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A and KOMPSAT-5.



SIIS contributes Remote Sensing and Earth observation industries societies by providing very high resolution optical and SAR images through over 90 sales partners worldwide.

Customers from industries as well as government and international agencies are using KOMPSAT imagery for their missions and researches and achieve good results in several remote sensing applications such as mapping, agriculture, disaster management, and so on. SIIS started its business as a satellite image and service provider and extended its business to KOMPSAT

Address	:	SI Imaging Services, 169-84, Gwahak-ro, Yuseong-gu, Dae-jeon, 34133, Republic of Korea
Contact Person	:	PublicRelations@si-imaging.com
Contact Number	:	+82-70-7805-0372 / +82-70-7835-1922
E-mail	:	sales@si-imaging.com
Website	:	http://www.si-imaging.com/

ACRS 2018 AWARDS









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ACRS 2018 AWARDS









PLACES OF ATTRACTION AROUND KUALA LUMPUR

Kuala Lumpur is situated midway along the west coast of Peninsular Malaysia, at the confluence of the Klang and Gombak rivers approximately 35 km from the coast, surrounded and supported by extensive public transportation networks such as Mass Rapid Transit (MRT), Light Rail Transit (LRT), monorail, Rapid Transit Bus, commuter rail and airport Express Rail Link (ERL). Kuala Lumpur is the largest city in the nation, possessing a population of over one and a half million people drawn from all of Malaysia's many ethnic groups.





PETRONAS TWIN TOWERS

Petronas Twin Towers were once the tallest buildings in the world. Now the world's tallest twin structures, the 88-storey buildings were designed by Cesar Pelli & Associates with both towers joined at the 41st and 42nd floors (175m above street level) by a 58 metre-long, doubledecker Sky Bridge. Standing 452 metres tall, the Petronas Twin Towers retained its worldtitle claim to fame until 2004 when Taipei's 101 was built, measuring 508 metres tall. Today, the Burj Khalifa in Dubai (opened in 2010) retains the spot as the world's tallest building. Located

in the KL city centre, the Petronas Twin Towers' architecture is Islamic-inspired and the buildings primarily house the corporate headquarters of the Petronas Company and other offices.

Source: http://www.kuala-lumpur.ws/attractions/petronas-twin-tower.htm?cid=ch:OTH:001

PLACES OF ATTRACTION AROUND KUALA LUMPUR



AQUARIA KLCC

Located on the concourse level of the Kuala Lumpur Convention Centre, is said to be one of the largest aquariums in Southeast Asia. Home to over 150 species of marine life, its star attractions include scary tiger sharks, lethal sea snakes, blue rays, bright coral fish, seahorses and more. It's a well-stocked aquarium just begging to be explored, and after a few hours here you'll have seen over 5,000 freshwater and marine creatures, including massive arapaimas, giant groupers, gar fish and more. Some people

write it off as a tourist trap, but they're sorely missing out – beyond the big tanks, with gallons of water, filled with necklaces of kelp, coral and mysterious and sometimes menacing sea creatures, is one of the country's foremost sightseeing attractions with real depth and complexity.

Source: http://www.kuala-lumpur.ws/attractions/aquaria-klcc.htm?cid=ch:OTH:001



KL TOWER

Along with the Petronas Twin Towers, Menara KL Tower is easily Malaysia's most recognizable and popular landmark. Constructed in 1994, the tower stands at 421 metres and effortlessly trumps the Petronas Twin Towers with the highest and most spectacular view of the city. This gleaming tower's spindle-like apex is visible from almost anywhere in Kuala Lumpur. Menara KL's viewing deck is, at 276 metres, at least 100 metres higher than the Petronas Twin Towers'

Skybridge; the view is marvellous during the day and even better at night when you can see the entire sparkling city centre.

Source: http://www.kuala-lumpur.ws/attractions/menara-kl-tower.htm?cid=ch:OTH:001



BUKIT NENAS

The tower is erected atop the Bukit Nanas (Pineapple Hill) Forest Reserve - the oldest gazetted forest reserve in the country, which houses age-old trees as well as flora and fauna indiaenous to Malavsia's tropical climate. Primarily used as a communications infrastructure. it is the fifth-tallest telecommunications tower in the world. When it was originally built, the natural surroundings of Bukit Nanas were kept intact to ensure balance in development; in fact a 100-year-old Jelutong

tree was preserved, at great cost, by building a retaining wall around it. Source: http://www.kuala-lumpur.ws/attractions/menara-kl-tower.htm?cid=ch:OTH:001

ACRS 2018 ORGANISING COMMITTEE

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MR. AZLIKAMIL NAPIAH Director General, Malaysian Remote Sensing Agency



Prof. KOHEI CHO General Secretary, Asian Association on Remote Sensing (AARS)



DR. CRISTIAN HEIPKE President of International Society for Photogrammetry and Remote Sensing (ISPRS)

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ASP T. SIVAKUMAR MR. MOHD RAZALLI MOHD DUN **Royal Malaysia Police**



MR. AHMAD ZAHARUDDIN ABDUL KADIR MR. MOHD ASRI ABDUL HALIM Department of National Heritage جابتن قابتن نك



MS. NURUL ADHA YAHAYA MR. MAZLAN BIN MD NOOR **Chief Government Security Office**

Local Organising Committee



MALAYSIAN REMOTE SENSING AGENCY (MRSA) MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE (MESTECC)

ACKNOWLEDGEMENT

THE ORGANISING COMMITTEE WISHES TO EXPRESS ITS GRATITUDE TO ALL PARTIES INVOLVED IN MAKING THIS CONFERENCE A SUCCESS



Jointly organised by:

MALAYSIAN REMOTE SENSING AGENCY (MRSA), MINISTRY OF ENERGY, SCIENCE, TECHNOLOGY, ENVIRONMENT AND CLIMATE CHANGE (MESTECC) & ASIAN ASSOCIATION ON REMOTE SENSING (AARS)

Strategic partners:

