

# MJJIC/ICaTAS/JASTIP 2018

## PROGRAM BOOK

**MJJIC  
ICaTAS  
JASTIP**

OCTOBER 16-19, 2018

**SAMA-SAMA HOTEL**

JALAN CTA 4B 64000 KLIA,  
SEPANG, SELANGOR D.E., MALAYSIA

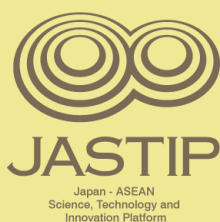
HOSTED BY MJIIT

UNIVERSITI TEKNOLOGI MALAYSIA(UTM), KUALA LUMPUR



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

Malaysia-Japan  
International  
Institute of Technology  
(MJIIT)



United Nations  
Educational, Scientific and  
Cultural Organization



Japan Science and  
Technology Agency



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# WELCOME MESSAGE FROM DEAN



It gives me great pleasure to welcome all participants to the 5th Japan-ASEAN Science, Technology and Innovation Platform (JASTIP) Symposium, the 5th Malaysia-Japan Joint International Conference Malaysia Japan (MJJIC) 2018 and the 3rd International Conference On Advanced Technology and Applied Science (ICATAS) 2018 hosted by the Malaysia Japan International Institute of Technology (MJIT), UTM Kuala Lumpur. MJIT is fortunate to have 29 Japanese universities, known as the JUC, participating not only in this conference but also in the development of MJIT, which is the Malaysian and Japanese governments huge undertaking to provide the first Japanese style engineering education at Bachelor, Masters and PhD level in Malaysia.

This conference aims at promoting cooperation between MJIT, JUC, and partners from the Arab Academy for Science Technology & Maritime Transport (AASTMT) which eventually would culminate into student exchange activities, joint supervision at postgraduate level and joint research undertakings. It is important that our young researchers and postgraduate students take the opportunity to be involved in such activities, deliberating on their research findings. The conference is also an excellent platform to network between researchers and students towards sustainable research collaboration.

The conference will cover the major areas of focus, namely: Electronic Systems Engineering, Mechanical Precision Engineering, Environmental and Green Technology, Management of Technology and Robotics Engineering. Four keynote addresses and over 70 research papers will be presented at this event, with nearly 150 participants spanning from nine countries. With the theme “Disaster Risk Reduction and Environmental Sustainability for Social Resilience,” and “Technologies for a Sustainable World”, it is hoped that participants will have a chance to increase their knowledge, form new alliances and plan for future activities.

I would like to take the opportunity to thank the researchers and postgraduate students for their contribution and dedication to this event. Gratitudes to all the hardworking committee members and the secretariat for materializing this joint conference. Last but not least our appreciation to the University of Kyoto, JICA, Arab Academy for Science Technology & Maritime Transport (AASTMT), Japan Science and Technology Agency (JST) and other sponsors for giving their strong support for this conference.

Professor Ali Selamat  
Dean, MJIT, Universiti Teknologi Malaysia

# ORGANIZING COMMITTEE



## Organizing Committee

	ICATAS	MJJIC	JASTIP
<b>HONOR S</b>	Prof. Datuk Ir. Dr. Wahid Omar (UTM Vice Chancellor) Prof. Dr. Ismail Abdel Ghafar Ismail Farag (AASTMT President)	Prof. Datuk Ir. Dr. Wahid Omar (UTM Vice Chancellor)	Prof. Datuk Ir. Dr. Wahid Omar (UTM Vice Chancellor)
<b>GENERAL CHAIR(S)</b>	Prof. Dr. Ali Selamat (MJIIT, UTM) Prof. Dr. Khaled Ali Shehata (AASTMT)	Prof. Dr. Ali Selamat (MJIIT, UTM) Prof. Dr. Akio Makishima (MJIIT, UTM)	Prof. Dr. Ali Selamat (MJIIT, UTM)
<b>GENERAL CO-CHAIRS</b>	Prof. Dr. Mohd. Rashid Mohd. Yusof (MJIIT, UTM) Prof. Dr. Sherin M. Youssef (AASTMT)	Prof. Dr. Mohd. Rashid Mohd. Yusof (MJIIT, UTM) Assoc. Prof. Dr. Hirofumi Hara (MJIIT, UTM)	Prof. Dr. Masafumi Goto (MJIIT, UTM)
<b>PROGRAM CHAIRS</b>	Assoc. Prof. Dr. Shahrum S. Abdullah (MJIIT, UTM) Prof. Dr. Mohamed S. ElMahallawy (AASTMT)	Assoc. Prof. Dr. Shahrum S. Abdullah (MJIIT, UTM) Yutaka Asako (MJIIT, UTM)	Assoc. Prof. Dr. Muhamad Ali Muhammad Yuzir (MJIIT, UTM)
<b>TREASURER CHAIRS</b>	Prof Mohamed Hassan (AASTMT)	Dr. Liew Peng Yen (MJIIT, UTM)	Dr. Sumiaty Bt Ambran (MJIIT, UTM)
<b>SECRETARY</b>	Dr. Mohd Hatta Mohamed Ariff (MJIIT, UTM)	Dr. Jun Ishimatsu (MJIIT, UTM)	Dr. Azura Hamzah (MJIIT, UTM)
<b>SCIENTIFIC COMMITTEE</b>	Prof. Dr. Abdul Manaf Hashim Assoc. Prof. Dr. Norhayati Abdullah Dr. Muhamad Kamal M Amin Dr. Ibrahim Shapia Prof Dr. Yoshihide Yamada Prof. Dr. Masafumi Goto Prof. Dr. Koichiro Mashiko Assoc. Prof. Dr. Aminudin Abu Prof. Dr. Hiroshi Nakanishi Prof. Dr. Tomoya Tsuji		

# ORGANIZING COMMITTEE



<b>PUBLICATION CHAIRS</b>	Assoc. Prof. Dr. Nor Azwadi Che Sidik (Head) Assoc. Dr. Safa Gasser Dr. Nurfatehah Wahyuny Che Jusoh Dr. Mohamed Sukri Mat Ali
<b>LOCAL ARRANGEMENT</b>	Dr. Ahmad Muhsin Ithnin (Head) Dr. Sumiaty Ambran Dr. Azura Hamzah Dr. Nur Azmah Nordin Dr. Shahira Liza Kamis
<b>REGISTRATION/ PROGRAM</b>	Ir. Dr. Tan Lian See (Head) Dr. Mohd Fitri Mohd Yakub Dr. Roshafima Rasit Ali Dr. Faizah Che Ros
<b>PROMOTION, WEB PORTAL AND SPONSORSHIP</b>	Dr. Nor Ruwaida Jamian (Head) Ir. Dr. Zool Hilmi Ismail Dr. Khairunnisa Mohd Pa'ad
<b>PUBLICITY CHAIRS</b>	Dr. Ahmed Madani Dr. Sherif Eldiasty



# CONTACT INFORMATION

## BEFORE AND AFTER CONFERENCE



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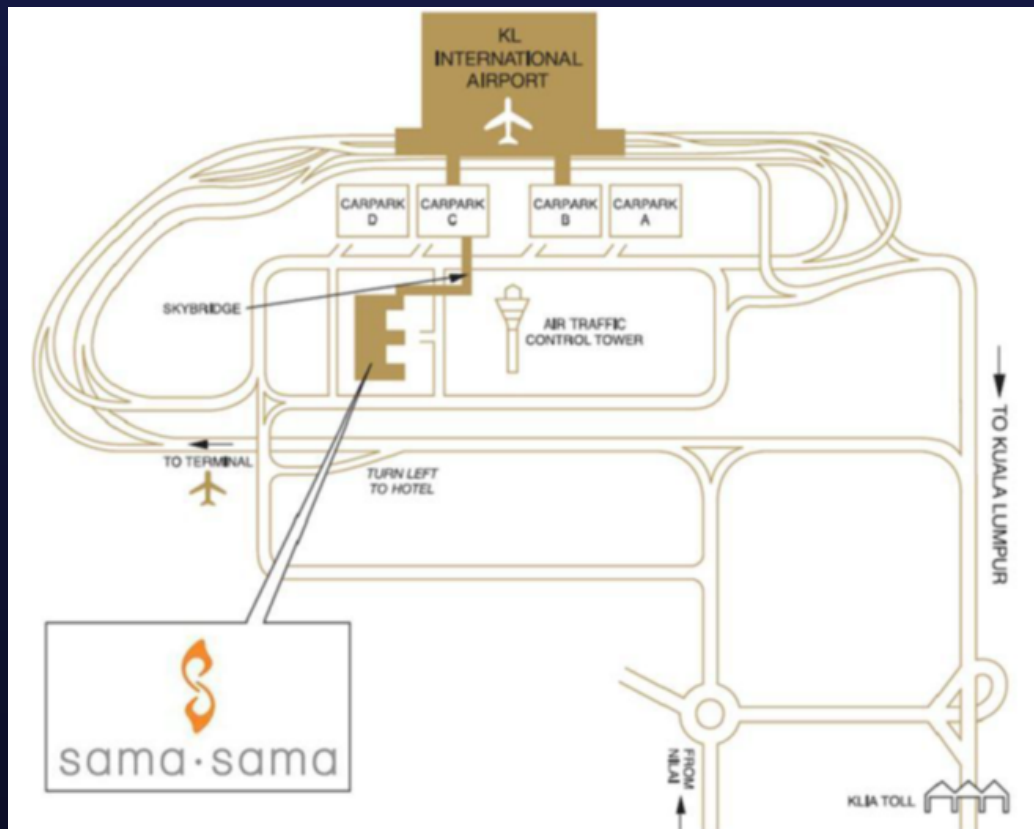
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# SAMA SAMA HOTEL

Jalan CTA 4B, 64000 KLIA - Sepang, Malaysia

Sama-Sama is a specialized Airport Hotel brand that embodies the very best of modern, contemporary Malaysia. Meaning “togetherness”, the logo denotes two hands coming together symbolizing the inclusiveness of the nation’s various people and cultures. It is also an expression of the depth of the Malaysian welcome. Our Award-Winning team are guided by the philosophy that welcoming our international and local guests with personalized and warm service is the authentic Malaysian experience / way.



The Hotel is connected by a covered sky bridge to the Main Terminal Building which houses the Arrival & Departure Halls, and is just a 5-minute walk away. For our guests' convenience, we operate a complimentary buggy shuttle service that runs between the Airport and the Hotel.

# CONFERENCE VENUE





# UNIVERSITI TEKNOLOGI MALAYSIA

Universiti Teknologi Malaysia (also known as University of Technology, Malaysia or UTM) is the oldest public engineering and technological university in Malaysia. The university specializes in technical studies, with separate faculties for the engineering divisions such as Civil, Mechanical, Electrical, Chemical and Biomedical engineering. It also has faculties for Education, Pure Sciences, Management, and Human Resources Development. It is the country's major source of graduate engineers and similar professionals.

With over 20,000 students on campus, more than 25% of them are postgraduates. Since the 1990s, the number of foreign students, particularly from neighbouring ASEAN countries, the Middle East, and Africa, has been increasing, especially in postgraduate programs. UTM graduates have gone on to many academic and professional institutions across the world. Universiti Teknologi Malaysia has two campuses. One is located in Kuala Lumpur, the capital city of Malaysia, and the other one is located in Johor Bahru, the southern city in Iskandar Malaysia, in the south of Peninsular Malaysia.



## **MALAYSIA-JAPAN INTERNATIONAL INSTITUTE OF TECHNOLOGY (MJIT)**



MJIT situated at the UTM International Campus, Kuala Lumpur was established in 2010 as a government-to-government initiative between Malaysia and Japan. It aims to offer a novel Japanese-style education in Malaysia. The idea is based on intensive Research and Development activities as well as close collaborations between academics and students within research groups (known as iKohza) capitalizing on a highly productive work environment and with a strong sense of professional ethics. MJIT works closely with Japanese universities and industries to create a distinctive work culture and employs a holistic approach in its programme offerings. It is hoped that the unique approach of a Japanese style education at MJIT will help spur more innovation and technology development in Malaysia.

The goals of MJIT are

- To provide undergraduate and postgraduate academic programs and R&D activities based on a strong sustainable Japanese technology and educational system through intensive research, good lecturer – students relationship, professional ethics and distinctiveness of working quality.
- To establish a holistic and a strong work culture by combining the existing skills at UTM and Japanese universities along with Japanese industries to achieve the dynamic global needs.
- To produce qualified and competent graduates in sustainable engineering field and management technology with high sensitiveness on the environment, green technology and precision engineering.
- To develop ASEAN human capital to improve the quality of life in the region. MJIT provides exposure to graduates with the relevant knowledge, mobility, suitable skills and open mindedness to ensure the sustainability of ASEAN communities to overcome the global human capital challenges.
- To serve as a catalyst for a holistic partnership between Japanese industries and business entities with Malaysian industries and agencies through R&D and social community projects. To ensure MJIT is in line with the internationalization aspiration of UTM Kuala Lumpur in achieving at least 40% international students intake.

# KEYNOTE AND INVITED SPEAKERS

## PROFESSOR MASAKI NAKAGAWA



Masaki Nakagawa has been working on handwriting recognition, pen-based user interfaces and applications — especially educational applications. Since 1980s, he has been collaborating with many companies and has contributed to develop handwriting recognizers for real commercial use. In 1990s, he also introduced User Interfaces for tablet devices and developed several educational applications using various sizes of tablets. His U.S. patents to scroll the window in proportion to the pen speed, so called “touch scroll”, were sold from his university to a company for the highest amount among all the Japanese universities in the fiscal year 2010. In 2011, he founded a start-up iLabo, which now sells the best handwriting recognizers for touch-based smart phones, tablets and so on in Japan. He is also working on historical document processing to read excavated documents from the Heijo palace (the capital in the 7th century) in Nara, Japan, and to read Chu Nom documents in Vietnam. He received the Minister of Education and Science award of Japan and the contribution award from Tokyo Metropolitan Government in 2016. He is a fellow of IAPR (International Association of Pattern Recognition), IEICE (Institute of Electronics, Information and Communication Engineers, Japan) and IPSJ (Information Processing Society of Japan).

# PROFESSOR DR. MOHAMED A. ABoul-DAHAB



He was born on the 7th of October 1950 at Zagazig, Al-sharkia Egypt. He received the B.Sc. degree in Electrical Engineering (Electronics & Communication) from the Faculty of Engineering, Cairo University, Egypt in 1973, M.Sc. and Ph.D. degrees in Communications Engineering from the Faculty of Engineering, Alexandria University, Egypt in 1980 and 1986 respectively. He had done the military service during the period 1973- 1975, where he had been granted a certificate of appreciation from the Director of the Egyptian Signal Corps “for his distinguished efforts during the Glorious October War”. After that, he has joined the Arab Academy for Science, Technology and Maritime Transport (AASTMT), as a teaching assistance. There, he became a professor of Communications Engineering in 1999.

During his long service period at the AASTMT, Prof. Aboul-Dahab had occupied the following positions: Assistant Dean of College of Engineering and Technology (1993-1995), Head of the Electronics and Communications Engineering Department (1995-2002), Dean of College of Engineering and Technology-Cairo Campus (2002-2009) and Dean of Productivity and Quality Institute- Cairo Campus (2012). He had been served as an Advisor to the Minister of Education for Quality Assurance and Accreditation Affairs during the period 2009-2012. In between (1986-1989), he had been delegated to the Regional Maritime Academy in GHANA where he had occupied the position of Head of the Radio and Electronics Department. He is currently an advisor to the AASTMT President for scientific affairs (since 2013). Prof Aboul-Dahab has joined the Institute of Electrical and Electronic Engineers (IEEE) in 1981 as a Student Member, and in 2018 he became a Life Senior Member (LSM). He is registered a Consultant Engineer at the Egyptian Engineering Syndicate where he is currently a member of the “Advisory Board for Electrical Engineering”, Egyptian Engineering Syndicate, EGYPT (since 2015).

He had been a member of the National Radio Science Committee (1995-2016) and is currently the chairman of the National Committee for the ITU Affairs (since 2015) and a member of the Board of Information and Communications Technology (ICT) Research (since 2015), all belonging to the Academy of Scientific Research and Technology, Egypt. He has supervised more the 40 M.Sc. and Ph.D. dissertations and published numerous papers in specialized conferences and journals. His research activities include adaptive antenna arrays, microstrip antennas, channel coding, OFDM techniques, channel modeling and satellite communications. He is a reviewer of the IEEE Transactions on Signal Processing. He had also participated in a number of applied research projects in Egypt (funded by the Ministry of Communications and Information Technology and the Ministry of Transport). In addition, he had been the team leader to one of the International Telecommunication Union (ITU) projects in Saudi Arabia.



## PROF. DR. YASUYUKI KONO



After graduating from the University of Tokyo and obtaining a doctoral degree in agriculture, Professor Yasuyuki KONO joined the Center for Southeast Asian Studies, Kyoto University, in 1987 and expanded his research fields to natural resources management, rural livelihood studies, and human-nature relations in Southeast Asia. He has worked on research projects on rain-fed agriculture in Northeast Thailand; the agricultural development process of the Chao Phraya, Red, and Mekong deltas; mountain agriculture and forest conservation, including shifting cultivation in Laos and Vietnam; coastal ecosystems and fisheries in Thailand; rural livelihood transition in Cambodia; peatland management in Indonesia; and sustainable humanosphere studies. Through these projects, he has sought to highlight the complexities of the development process and identify the major drivers of change in rural societies. He has also sought to elucidate the livelihood rationality of rural communities with a view to promoting best practices of rationality-based natural resources management. Professor Kono is currently the Vice President of Kyoto University and Leader of JASTIP Project. Prior to these, he is former Director, Center for Southeast Asian Studies, Kyoto University.

## PROF. DR. KAORU TAKARA



Professor Kaoru Takara has been interested in physically-based stochastic hydrological analysis, using state-space modeling of river basins with advanced technologies such as the Kalman filter, rain radar, satellite remote sensing, geographic information systems (GIS) and computer intensive statistics (CIS). Modeling and forecasting of heavy rainfalls, floods and landslides are key to prevent and reduce disaster risks in river basins. His current interests include: probable maximum precipitation (PMP), probable maximum flood (PMF), frequency analysis of meteorological and hydrological extremes with parametric and non-parametric methods, climate change impacts, downscaling of global climate model (GCM) outputs for applications at basin scale, and disaster risk governance. Prof. Takara published 25 co-authored books, 200+ peer-reviewed papers in academic journals, and 130+ articles in annuals and journals.

He has been contributing to international cooperation research activities through UNESCO International Hydrological Programme (IHP), Asia Pacific Association of hydrology and Water Resources (APHW), International Association of Hydrological Sciences (IAHS), International Water Resources Association (IWRA), International Consortium on Landslides (ICL), ASEAN University Network/Southeast Asia Engineering Education Development Network (AUN/SEED-Net), and Global Alliance of Disaster Research Institutes (GADRI), as well as through a role as an Associate Editor of the International Journal of Flood Risk Management (JFRM).

In the Graduate School of Engineering, Kyoto University, Prof. Takara has produced 48 doctors including international students: Brazil (2), China (5), Croatia (2), India (2), Indonesia (4), Japan (13), R. Korea (3), Lao PDR (1), Malaysia (4), Nepal (4), The Philippines, Taiwan (2), Tanzania, and Vietnam (4).

He is now leading two trans-disciplinary implementation science programs: “Inter-Graduate School Program for Sustainable Development and Survivable Societies” (GSS 2011-2018) in cooperation with nine graduate schools and three research institutes of Kyoto University; and “Japan-ASEAN Science, Technology and Innovation Platform (JASTIP) Disaster Prevention Program (WP4)” implemented by Kyoto University and other Japanese and ASEAN universities (2015-2020).

In April 2018, he has established the UNECO Chair on Water, Energy and Disaster Management for Sustainable Development (WENDI).

# TENTATIVE PROGRAM

## DAY1 (Wednesday)

Day 1 (Wednesday)				
9:00:00 AM	Opening Ceremony			Gateway Ballroom A
9:30:00 AM	<b>Keynote Speech 1</b> Prof. Yasuyuki Kono Vice President, Kyoto University; Leader of JASTIP "SDGs and roles of JASTIP" Chairperson: Prof. Dr. Ali bin Selamat (MJIIT)			Gateway Ballroom A
10:30:00 AM	Tea-time			Gateway Ballroom Foyer
Session 1	Session 1(a)	Session 1(b)		
Venue	Boeing 1	Boeing 2		
Session Title:	ICATAS (COMPUTING SYSTEM)	BIOLOGY SERIES - 1		
Chair:	Prof Datin Rubiyah binti Yusof, Prof. Mohammed Saad Elmahallawy, Assis. Prof. Sherif Aldyasti	Prof Shereen Youssef, A.P. Dr Shaza Eva		
Timekeeper:	Gesyeeana Bazlyn Zamri	Nurul Ashyikin Yahya, Nur Aliya Hamdi		
11:00:00 AM	Paper 1 : 1570454854: A New Model For Data Loss Prevention Based on Software Defined Network Authors: Hassan Ali; Sherin M. Youssef; Hany Said	Paper 1 : 1570476385: Optimisation of Astaxanthin Production from Microalgae Monoraphidium sp Authors: Natasha Ibrahim; Shaza Mohamad		
11:15:00 AM	Paper 2 : 1570441978: UAV Cloud Computing System Authors: Ahmed Ragab; Mohamed ElFaham; Abeer Khalil; Atalla Ibrahim Hashad	Paper 2 : 1570476537/1570494563 : Low Cost Cultivation of Heavy Metal Absorbing Red Algae Galdieria sulphuraria Using Tropical Environmental Condition Authors: Nurul Ashyikin Yahya; Koji Iwamoto; Hirofumi Hara; Shaza Mohamad; Norhayati Abdullah; Siti Khadijah Kamal		
11:30:00 AM	Paper 3 : 1570455800: SAC-OCDMA system performance using MDW signature codes with different photodiodes: A comparative study Authors: Somaya Abd El-Mottaleb; Heba Fayed; Moustafa Hussein Aly; Mohamed Mohamed; Mohamed Metawee	Paper 3 : 1570476552: Optimisation of squalene production using Chlorella sorokiniana UTEX1230 Authors: Ainur Adliana Salleh		
11:45:00 AM	Paper 4 : 1570478516: A low power bch based on error locator polynomial searching algorithm and two step parallel chien search algorithm Authors: Khaled A Shehata; Hanady Issa; Saleh Eisa; Noha Shebl	Paper 4 : 1570495621: Analysis of Nitrogen and Phosphorus in Subcritical Water from Microalgae Dry and Wet Route Authors: Ahmed Parvez		
12:00:00 PM	Paper 5 : 1570492164: Chaotic Synchronization to Secure Communications Authors: Mohamed El-Mahallawy; Khaled Ali Shehata; Safa Gasser; Salwa Elramly; Zainab Maghraby	Paper 5 :1570496593 : Biochemical Methane Potential (BMP) from the Anaerobic Co-Digestion of Sewage Sludge and Palm Oil Mill Effluent (POME) Authors: Mohamed Alsamet		

# TENTATIVE PROGRAM

## DAY1 (Wednesday) continue

12:15:00 PM	Paper 6 : 15704922166: A Strategic Roadmap For Maximizing Big Data Return Authors: Manal Abdel-Fattah, Yehia Helmy, Thanaa Hassan	Paper 6 : 1570489498 : Evaluation of Effective Microbe (EM) solution for Domestic Wastewater Treatment and Plant Growth Enhancement Authors: Nur Aliya Hamdi; Megat Johari bin Megat Mohd Noor; Fazrena Nadia Md Akhir; Nor'Azizi Othman; Hirofumi Hara
12:30:00 PM	Paper 7 : 1570490240 : Modelling of Magnetorheological Damper Characteristics using Artificial Neural Network Authors: Amirul Syahir Ahmad Suhaimi, Hatta Ariff, Mohd Azizi Abdul Rahman; Fitri Yakub; Saiful Amri Mazlan;	Paper 7 : 1570472999 : Artificial RNA editing enzymes for RNA restoration in vivo Authors: Toshifumi Tsukahara; Sonali Bhakta; Md. Thoufic Azad; Matomo Sakari
12:45:00 PM	Paper 8 : 1570486549 : Hardware Software Co-Design OF FPGA-based Implementation Of Extreme Learning Machine Authors: Hon Yong; Nordinah Ismail; Tan Chong Yeam	Paper 8 : 1570491346 : Effect of Shock Loading on the Biodegradation of Benzene Gas by Yeast Candida Tropicalis Authors: Nik Nurhidayu Binti Nik Mut
1:00:00 PM	Lunch	
Session 2	Session 2(a)	Session 2(b)
Venue	Boeing 1	Boeing 2
Session Title:	ICATAS (IMAGING)	BIOLOGY SERIES - 2
Chair:	Prof. Khaled Ali Shehata, A.P. Dr. Pauziah bt. Muhamad	A.P. Dr. Hirofumi Hara, Assoc. Prof Safa Gasser
Timekeeper:	Natasha Ibrahim	Siti Norayuni Mohd Zulkeffle, Fatimah Azizah Riyadi
2:00:00 PM	Paper 9 : 1570458402: Web Content Mining using Image Retrieval Based on Wavelet Transform Authors: Mirna A. Bassaly; Sherin M. Youssef; Marwa A. ElShenawy	Paper 9 :1570487472 : Household Food Waste Reduction Intervention Program Through Faith Based Approach: Malaysia Case Authors: Gesyeana Bazlyn Zamri; Nur Khaiyum Azizal; Norul Hajar Nordin; Naoko Kaida; Hirofumi Hara; Nor'Azizi Othman; Shohei Nakamura
2:15:00 PM	Paper 10 : 1570485430: Automatic face and hijab segmentation using convolutional network Authors: Dina Madkour; Ahmed Madani	Paper 10 :1570487474 : Identification of Ciprofloxacin Efflux Pump in Multidrug Resistant Staphylococcus aureus in the Tropics of Southeast Asia Authors: Siti Norayuni Mohd Zulkeffle; Hirofumi Hara; NorFarahaida Mustafa; Nor'Azizi Othman
2:30:00 PM	Paper 11 : 1570463170: STK Study of the Indian Regional Navigation Satellite System Authors: Nourhan Rasheed; Tarek Shawky; Mohamed Abd El-Azeem	Paper 11 : 1570487489 : Ligninolytic Enzyme Activity of Thermophilic Lignin-Degrading Bacteria Isolated from Palm Oil Empty Fruit Bunch Authors: Fatimah Azizah Riyadi; Hirofumi Hara; Nadia Azman; Nurtasbiyah Yusof; Nor'Azizi Othman; Megat Johari bin Megat Mohd Noor; Fazrena Nadia Md Akhir
2:45:00 PM	Paper 12 : 1570464399: Detection of Abnormalities in Eye Fundus Images Authors: Laurine Ashame; Sherin M. Youssef; Salema Fayed	Paper 12 : 1570487491 : Draft Genome Sequence of Geosmin Producer, Streptomyces Sp. S10, Isolated from Tropical Freshwater Authors: Shahirah Shudirman; Hirofumi Hara; Norio Sugiura; Nor'Azizi Othman; Kazuya Shimizu; Motoo Utsumi; Zuriati Zakaria; Nurul Syahirah Shamsol Anuar; Aeyshah Abang Kassim; Nurul Syazwani



# TENTATIVE PROGRAM

## DAY1 (Wednesday) continue

3:00:00 PM	Paper 13 : 1570465138: Reconstructing the Depolarization Pattern of the Heart from Body Surface Potentials Using Artificial Neural Network Authors: Nihal Mabrouk; Abdel Reheem Khalifa; Abd Elmonem Nasser	Paper 13 : 1570495349 : Formation of Tobermorite under Super Critical Water Conditions from Tannery Sludge with Rice Husk Silica Authors: Ayesha Akter	Gateway Ballroom Foyer
3:15:00 PM	Tea-time		
Session 3	Session 3(a)	Session 3(b)	
Venue	Boeing 1	Boeing 2	
Session Title:	ICATAS (ELECTRONIC MATERIALS)	MECHANICAL SERIES	
Chair:	Assis. Prof. Ahmad Madani, Dr Fitri Yakub	Prof. Mohammed Hassan Abdelazeem, Prof. Dr. Yutaka Asako,	
Timekeeper:	Shahirah Shudirman	Nurul Hidayah Shabdin	
3:45:00 PM	Paper 14 : 1570451371: Throughput and Wasted Work in Contention Management for Software Transactional Memory Authors: Sherif F Fahmy; Zakaria Senousy; Ahmed Fahmy	Paper 14 : 1570469643 : Estimation Method of Cooling Load in an Underground Station Authors: Katsuhiko Shibata	
4:00:00 PM	Paper 15 : 1570465150: Temperature effects on Silicon/Germanium superlattice solar cell Authors: Hadeer Ihab; Mostafa Fedawy	Paper 15 : 1570475484 : Effects of Flow Transition and Flow Choking on Heat Transfer of Gas Flow in a Micro-tube with Constant Wall Temperature Authors: Takeya Sakashita; Chungpyo Hong; Yutaka Asako	
4:15:00 PM	Paper 16 : 1570462958: Effect of doping profile and work function variation on the performance of double-gate TFET Authors: Mostafa Fedawy; Muhammad A. Elgamal; Aya Sinjab; Ahmed Shaker	Paper 16 : 1570475494 : Measurement of Average and Semi-local Friction Factors of Gas Flow in Adiabatic Micro-tubes Authors: Takayuki Shigeishi; Chungpyo Hong; Yutaka Asako	
4:30:00 PM	Paper 17 : 1570458154: Investigation of the Breakdown Voltages for Various Aircraft Wiring Insulation under Different Ambient Conditions Authors: Ahmed Hanafi; Rania Sharkawy; Loai S. Nasrat	Paper 17 : 1570477998 : Effects of impact media hardness on shot peening process Authors: Tomohiro Minami; Hatsuhiro Usami	
4:45:00 PM	Paper 18 : 1570457531: Efficiency Enhancement Using Double Layer Anti-reflection Coating of Metamaterial and Si3N4 Authors: Mostafa Fedawy; Shereen Mostafa; Tarik Abd Al-Kader	Paper 18 : 1570474458 : Detecting thermal deformation using image-based deformation measurement technique Authors: Zainuddin Norisha; Yutaka Asako; Tan Lit Ken; Che Sidik Nor Azwadi	
5:00:00 PM	End of Day 1		
7:30:00 PM	Dinner		Gateway Ballroom B

# TENTATIVE PROGRAM

## DAY 2 (Thursday)

Day 2 (Thursday)			
9:00:00 AM	<b>Keynote Speech 2</b> Prof. Mohamed A.Aboul-Dahab Arab Academy for Science, Technology and Maritime Transport "Recent Trends in the Design of Microstrip Antennas" Chairperson: Assoc. Prof. Dr. Shahrul Shah b. Abdullah (MUJIT)	Auditorium	
9:45:00 AM	<b>Keynote Speech 3</b> Prof. Masaki Nakagawa Tokyo University of Agriculture and Technology (TUAT) "Latest Applications of Deep Neural Networks to Handwriting Recognition and Identification" Chairperson: Prof. Dr. Akio Makishima (MUJIT)	Auditorium	
10:30:00 AM	Tea-time	Gateway Ballroom Foyer	
Session 4	Session 4(a)	Session 4(b)	
Venue	Boeing 1	Boeing 2	
Session Title:	CHEMICAL & ENVIRONMENT SERIES - 1	ELECTRIC & ELECTRONIC SERIES - 1	
Chair:	Prof. Dr Tomoya Tsuji	Prof. Dr. Yoshihide Yamada, Dr. Azura Hamzah	
Timekeeper:	Andrea Lai	Tan Chong Yeam	
11:00:00 AM	Paper 1 : 1570489020 : Monitoring of Cultivation Environment in Plant Factory and Evaluation of Influential Factors on Grows of Leaf Lettuce Authors: Masashi Kuwaki; Shinichi Kinoshita; Atsumasa Yoshida; Ayumi Enjoji; Junichi Yamaguchi Paper 2 : 1570489019 : Study on High-Precision Thermal Conductivity Technique for Thermal Insulation Materials Authors: Takuma Naka; Shinichi Kinoshita; Atsumasa Yoshida	Paper 1 : 1570490939 : Multi Beam Array Antennas for 5G Mobile Base Station (CSN) Authors: Yoshihide Yamada; Intan Izafina Idrus; Tharek Abdul Rahman Paper 2 : 1570486558 : Low Cost ARDUINO-based Home Automation System Using IOT Authors: Chuah Kee Yang; Koichiro Mashiko; Nordinah Ismail	
11:15:00 AM	Paper 3 :1570473530 : Solubility Prediction for Active Pharmaceutical Ingredient (API) by Using Activity Coefficient Model Authors: Tomoya Tsuji; Meor Ahmad Naufal Zikri Meor Abd Aziz; Andrea Lai; Pramila Tamunaidu; Shigeo Oba	Paper 3 : 1570486561 : FPGA Implementation of Online Sequential Extreme Learning Machine for Binary Classification Authors: Lai Tzy Kiang; Nordinah Ismail; Tan Chong Yeam	
11:45:00 AM	Paper 4 : 1570473546 : Estimation Method of Performance in Air Conditioner using Alternative Refrigerant for R-22 Authors: Andrea Lai; Shafiz Shamsollizan; Tomoya Tsuji; Mariam Firdaus Mad Nordin; Taka-aki Hoshina; Shigeo Oba	Paper 4 : 1570490543 : Dielectric Lens Antenna Shaping Method Authors: Farizah Ansarudin; Yoshihide Yamada; Tharek Abdul Rahman	

# TENTATIVE PROGRAM

## DAY 2 (Thursday) continue

12:00:00 PM	Paper 5 : 1570481212 : Measurement and correlation of bubble point pressure for Dimethyl ether (DME) + Acetone, DME + C6 alcohol, and DME + Acetone + C6 alcohol Authors: Tomoya Tsuji; Misaki Nakazawa; Taka-aki Hoshina; Toshihiko Hiaki	Paper 5 : 1570491641 : Fabrication of Human Arm Phantom for Antenna Measurement (CSN) Authors: Nurul Huda Abd Rahman; Wan Nur Ameera Azlan; Yoshihide Yamada; Norsiha Zainudin
12:15:00 PM	Paper 6 : 1570489025 : Steam Explosion and Hydrothermal Conversion of Food Wastes Authors: Toshitaka Funadukuri; Yoshimi Ushiyama; Tomoya Tsuji	Paper 6 : 1570491641 : 1570490500 : Offset Dual-Reflector Shaping Method (CSN) Authors: Kamelia Quzwain; Yoshihide Yamada; Kamilia Kamardin
12:30:00 PM	Paper 7 : 1570473698 : Chemical Synthesis of Graphene Oxide From Industrial Welding Waste Authors: Norhuda Abdul Manaf, W. c. Siaw; Muhammad Fazly Abdul Patah	Paper 7 : 1570491872 : Radio Wave Measurement Facilities at Antenna Group (CSN) Authors: Kamilia Kamardin; Yoshihide Yamada
12:45:00 PM	Paper 8 : 1570476162 : Air Emissions Dispersion at Taman Beringin Closed Landfill Authors: Nurul Hidayah Shabdin	Paper 8 : 1570477066 : Stiffness Determiner for a Controlled Articulated Ankle Foot Orthosis Authors: Dimas Adiputra; Mohd Azizi Abdul Rahman; Saiful Amri Mazlan; Hairi Zamzuri; Hatta Ariff
1:00:00 PM	Lunch	
Session 5	Session 5(a)	Session 5(b)
Venue	Boeing 1	Boeing 2
Session Title:	CHEMICAL & ENVIRONMENT SERIES - 2	
Chair:	Dr Nurfatehah Wahyuni Che Jusoh, Dr. Khairunnisa Binti Mohd. Pa'ad	Prof Dr Nakanishi Hiroshi, Dr Jun Ishimatsu
Timekeeper:	Siti Hajar Abd Rahim	Dimas Adiputra
2:00:00 PM	Paper 9 : 1570474198 : TrikotAC20 as a New Filter Aids Material For Fabric Filtration System Authors: Siti Hajar Abd Rahim; Mohd Rashid Mohd Yusof; Hazwani Ramly; Nor Masdiana Zulkeple; Nor Ruwaida Jamian; Khairunnisa Mohd Paad	Paper 9 : 1570491802 : Reduction Of Particulate Emission From A Retrofitted Multi-Cyclone Authors: Nor Ruwaida Jamian; Dewika Naidu; Mohd Rashid Mohd Yusof; Hariz Rozman; Norelyza Hussein; Khairunnisa Mohd Paad; Siti Hajar Abd Rahim; Nor Masdiana Zulkeple
2:15:00 PM	Paper 10 : 1570475017 : The Effect of Temperature on Toluene Adsorption Performance Over Formulated PrekotAC Filter Aids Authors: Nor Masdiana Zulkeple; Siti Hajar Abd Rahim; Nor Ruwaida Jamian; Mohd Rashid Mohd Yusof; Khairunnisa Mohd Paad; Nadhihah Jaafar; Ammar Rashid	Paper 10: 1570499132 : Influence of Ultrasonically excited Lubricant on Grinding Wheel Authors: Jun Ishimatsu, Ally Hefny Mahmoud Hefnya, Goh Kok Zhena

# TENTATIVE PROGRAM

## DAY 2 (Thursday) continue

2:30:00 PM	Paper 11: 1570498048 : Surface modification of polyurethane scaffolds with 2-hydroxyethyl methacrylate using radiation-induced graftin Authors: Zatil Izzah; Roshafima Rasit Ali; Mohd Shahrul Nizam Bin Salleh	Paper 11 : 1570491873 : Engineering Education Design About Standardization in Universities Authors: Hiroshi Nakanishi	Tea-time	Gateway Ballroom Foyer
2:45:00 PM	Paper 12 : 1570493754 : Centrifugal Force Mechanism Separation by using Computational Fluid Dynamics (CFD) Simulation Authors: Dzulkarnain M. Sahri; Noor Shawal Nasri; Siti Ezaty	Paper 12 : 1570495372 : The Effects Of Induction Motor's Steel Sheet Thickness On Efficiency, Losses And Electrical Cost Authors: Yanawati Yahya		
3:00:00 PM	Paper 13 : 1570474552 : Effect Of Electrolytes Containing Durio Zibethinus Husk Extract On The Size And Photocatalytic Activity Of Copper Oxide Nanoparticles Authors: Ahmad Masudi; Nurfatehah Wahyuny Che Jusoh; Zunika Bakri; Alishah Abdul Jalil; Roshafima Rasit Ali; Kamyar Shameli	Paper 13 : 1570492544 : Internet of Things (IoT) based for Flood prediction in Disaster Risk Reduction Authors: Nur-adib Maspo		
3:15:00 PM	Session 6(a)		Session 6(b)	
Session 6	Boeing 1		Boeing 2	
Venue	ENVIRONMENT & DISASTER SERIES		ELECTRIC & ELECTRONIC SERIES - 2	
Session Title:	Dr. Nor Ruwaida binti Jamian		Dr Hatta Ariff	
Chair:	Nor Masdiana Zulkeple		Che Munira Che Razali	
Timekeeper:				
3:45:00 PM	Paper 14 : 1570474165 : Flushing Method of Piping System without Waste Water Authors: Kosuke Osako	Paper 14 : 1570478472 : Comparative Studies Between Radial Basis Function Neural Network And Random Forest Algorithm for Estimation of Building Energy Consumption Authors: Che Munira Che Razali; Shamsul Faisal Mohd Hussein; Amrul Faruq; Shahrum Shah Abdullah		
4:15:00 PM	Paper 15 : 1570490107 : Liquefaction Resistance of Sand-Fine Mixtures: A Review with Current Research on Factors Influencing Liquefaction Resistance Authors: Bakhtiar Affandy Othman	Paper 15 : 1570489600 : Blockchain Implementation for IoT platform Authors: Mohamad Hafizat Zainal Abidin; Saravid Suchaad		
4:45:00 PM	Paper 16 : 1570491219 : The Web-based Framework for X-Band Polarimetric Radar System Authors: Nooradilla Abu Hasan	Paper 16 : 1570490220 : Flood Water Level Forecasting with Stable Accuracy using Nonlinear Autoregressive Exogenous Neural Networks Authors: Amrul Faruq; Shamsul Faisal Mohd Hussein; Che Munira Che Razali; Shahrum Shah Abdullah		
5:15:00 PM	Paper 17 : 1570472775 : Evaluation of Betalain and Total Phenolic Content Extracted from Beetroot Peel via Ultrasonic Assisted Process Authors: Tan Lian See; Tomoya Tsuji	Paper 17 : 1570491428 : Review on Recent Strategy of NURBS based 3D Model for Additive Manufacturing Authors: Amzar Omairi		
5:45:00 PM	Award Ceremony		Boeing 1	
End of Conference				

# THANK YOU