

Overview for Presentation Schedule

-Please refer to the attached sheet for paper title and other details.



The 18th SEATUC Symposium

South East Asian Technical University Consortium

Day1 February 27th

Technical Session (TS)						
Time (GMT+9)	Track	Paper ID	Track	Paper ID	Track	Paper ID
	Room 2301		Room 2305		Room 2306	
10:00-10:20			TS-9	44	TS-5	61
10:20-10:40	TS-4	47	TS-9	108	TS-5	156
Break						
10:55-11:15	TS-2	43	TS-9	114	TS-5	88
11:15-11:35	TS-2	102	TS-9	122	TS-5	112
11:35-11:55	TS-4	118			TS-5	133
11:55-12:15					TS-5	162
Lunch Break						
13:15-13:35	TS-11	148	TS-9	107	TS-5	2
13:35-13:55	TS-11	63	TS-9	140	TS-5	8
13:55-14:15	TS-11	33	TS-9	129	TS-5	124
14:15-14:35	TS-11	32	TS-8	116	TS-5	135
Break						
14:50-15:10					TS-6	76
15:10-15:30					TS-6	97

Innovative Session (IS) -Onsite								
Time (GMT+9)	Track	Paper ID	Paper ID	Paper ID	Paper ID	Paper ID	Paper ID	Paper ID
	Room 2406/2407							
10:00-11:00	IS-08	4	22	37	40	106	139	149
		11	24	38	62	109	141	
Break								
	Room 2408							
11:15-12:15	IS-07	1	19	46	56	68	111	
		6	29	48	60	78	119	
		15	45	51	65	79	125	
Lunch Break								
	Room 2406/2407							
13:15-14:15	IS-01	28	30	31				
		IS-02	73	91				
		IS-03	26	27	41	90	137	138
Break								
	Room 2408							
14:30-15:30	IS-05	18	55	89	113	136	146	164
		42	59	94	134	143	161	165
		IS-06	34					

IS -Online		
Time (GMT+9)	Track	Paper ID
	Room 2403	
10:55-11:10	IS-08	66
11:10-11:25	IS-08	80
11:25-11:40	IS-08	130
11:40-11:55	IS-07	126
Lunch Break		
13:15-13:30	IS-07	16
13:30-13:45	IS-08	12
13:45-14:00	IS-08	85
14:00-14:15	IS-08	104
Break		
14:15-14:30	IS-05	58
14:30-14:45	IS-05	39

Day2 February 28th

Technical Session (TS)						
Time (GMT+9)	Track	Paper ID	Track	Paper ID	Track	Paper ID
	Room 2301		Room 2305		Room 2306	
10:00-10:20	TS-1	103	TS-3	99	TS-5	98
10:20-10:40	TS-1	117	TS-3	101	TS-5	121
10:40-11:00			TS-3	120	TS-5	163
11:00-11:20						

Innovative Session (IS) -Onsite								
Time (GMT+9)	Track	Paper ID	Paper ID	Paper ID	Paper ID	Paper ID	Paper ID	Paper ID
	Room 2406/2407							
9:00-10:00	IS-04	17	36	84	92	93		
		IS-10	52					
		IS-11	83	123	127	128	151	
Break								
	Room 2408							
10:15-11:15	IS-09	7	21	69	72	87	115	158
		9	64	70	77	96		159
		10	67	71	86	105	145	160

IS -Online		
Time (GMT+9)	Track	Paper ID
	Room 2403	
10:45-11:00	IS-02	35
11:00-11:15	IS-03	81
11:15-11:30	IS-11	95
11:30-11:45	IS-11	127
11:45-12:00	IS-09	131



Presentation Schedule -Technical Session -

TS Day1 February 27th

Room 2301							
Time (GMT+9)	Track	Paper ID	Title	Authors	Online	Zoom ID	
10:00-10:20							
10:20-10:40	TS-4	47	Development of a Simple Open-Loop Wind Tunnel for Small-Scale Wind Turbine Testing	Elysa Nensy Irawan, Kai Shibuya, Nguyen Hoang Minh Giang, Ken-Ichiro Yamashita and Goro Fujita		899 3446 4188	
Break							
10:55-11:15	TS-2	43	Fabrication of Modules and Establishment of Experiments to Enable Learning of Three-Phase Inverters and PWM Inverters.	Yoshiaki Tobari and Goro Fujita			
11:15-11:35	TS-2	102	Low-Noise Amplifier Employing Capacitive Cross-coupling Technique for the n258 Band of 5G NR FR2 Applications	Xingzi Lu and Retdian Nicodimus			
11:35-11:55	TS-4	118	Testing a Natural Air-Cooling Method on a Test House in Ho Chi Minh City	Mai-Anh Ho Pham, Nga N. Q. Tra and Y Q. Nguyen			
11:55-12:15							
Lunch Break							
13:15-13:35	TS-11	148	The Study of the Impact and Effectiveness of Pre-Engineering Workshops on High School Students' Perceptions and Aspirations in Engineering Fields	Adisak Salangsing, Chitapong Wechtaisong and Thanaset Thosdeekoraphat		899 3446 4188	
13:35-13:55	TS-11	63	Design and Evaluation of Educational Bidirectional Buck-Boost Converters	Taiki Muramatsu and Goro Fujita			
13:55-14:15	TS-11	33	The Research on Factors Within The Supply Chain Affecting Tourist Satisfaction For Wellness Tourism	Paphakorn Pitayachaval, Punnaphop Watcharamaisakul, Nattamon Pilaiwong and Jiranan Pimdee	Online		
14:15-14:35	TS-11	32	A Study of the Factors Influencing the Failure of SMEs in Thailand's Northeast. Case Study: Nakhon Ratchasima, Khon Kaen, Ubon Ratchathani, and Udon Thani.	Paphakorn Pitayachaval and Waritsara Putomnak	Online		
Break							
14:50-15:10							
15:10-15:30							



Presentation Schedule

-Technical Session -

TS Day1 February 27th

Room 2305						
Time (GMT+9)	Track	Paper ID	Title	Authors	Online	Zoom ID
10:00-10:20	TS-9	44	Enhancement of the Extractability of Inulin from Jerusalem Artichoke Tuber using Ultrasound-Assisted Extraction	Peerawat Taengsopha, Tiraporn Junyusen, Pornpimol Moolkaew and Payungsak Junyusen		857 5809 4489
10:20-10:40	TS-9	108	Effects of Resistant Canna Starch-derived Fermentation Products on SW620 Colon Cancer Cell Growth Inhibition	Yuree Wandee and Dudsadee Uttapap		
Break						
10:55-11:15	TS-9	114	Effects of Ultrasonic-Assisted Extraction on the Inulin and Alcohol Content of the Jerusalem Artichoke Tuber Wine	Kajondet Labut, Tiraporn Junyusen, Payungsak Junyusen and Natthaporn Chatchavanthatri		
11:15-11:35	TS-9	122	Exploring the Sustainable Utilization of Agro-Processing Waste for Pectic-Oligosaccharide Production: Characterization and Antioxidant Assessment	Wascharin Udchumpisai, Yuree Wandee and Walaiwan Panyapoo		
11:35-11:55						
11:55-12:15						
Lunch Break						
13:15-13:35	TS-9	107	The Effectiveness of Digital Art in Improving Mental Wellbeing among University Students of Asian Nationalities	Mary Sukgul, Takumi Miyoshi and Kyoko Hidaka		857 5809 4489
13:35-13:55	TS-9	140	Novel Frequency-difference Electrical Impedance Tomography Approach for Distinguishing Different Electrical Conductivity Objects: - Feasibility Validation in Phantom -	Quoc Tuan Nguyen Diep, Minh Quan Cao Dinh, Hoang Nhut Huynh, Ngoc An Dang Nguyen, Anh Tu Tran, Phuong-Anh Bui, Congo Tak Shing Ching and Trung Nghia Tran	Online	
13:55-14:15	TS-9	129	CNN-Based Fall Classification and Severity Evaluation with MediaPipe Pose	Ashiraya Timtong, Thanaset Thosdeekoraphat, Sukasem Watcharamaisakul and Supawat Kotchapradit	Online	
14:15-14:35	TS-8	116	Neural Network Modeling for Prediction Mechanical Properties of Spent Polypropylene Composites Polypropylene Recycle	Jetnipat Pimollukanakul, Wannisa Nutkhum and Jittiwat Nithikarnjanatham	Online	
Break						
14:50-15:10						
15:10-15:30						



Presentation Schedule -Technical Session -

TS Day1 February 27th

Room 2306						
Time (GMT+9)	Track	Paper ID	Title	Authors	Online	Zoom ID
10:00-10:20	TS-5	61	Performance Evaluation of Construction Companies in the Road Infrastructure Sector of Nepal	Chhabi Lal Paudel and Michael Henry		864 2218 7679
10:20-10:40	TS-5	156	Relationship Between Estimated Maintenance Cost and Cost Increase Due to Delay of Road Maintenance in Addis Ababa City, Ethiopia	Salim Teremo and Michael Henry		
Break						
10:55-11:15	TS-5	88	Association Between Bridge Characteristics and Maintenance Prioritization for Bailey Bridges in Bhutan	Kinga Zangpo and Michael Henry		
11:15-11:35	TS-5	112	Object Recognition and Tracking Using Composite LiDAR on Construction Vehicles to Improve Safety at Construction Sites	Gai Ozaki, Masafumi Nakagawa and Masahiro Miyo		
11:35-11:55	TS-5	133	Semantic Segmentation of Water-borne MMS Point Clouds for 3D River Modeling	Tetsu Yamaguchi, Takeshi Komori, Nobuaki Kubo, Etsuro Shimizu and Masafumi Nakagawa		
11:55-12:15	TS-5	162	Causes of Non-Value Adding Activities in Urban Road Infrastructure Projects in Addis Ababa, Ethiopia	Mekonnen Tibebu Chekol and Michael Henry Henry		
Lunch Break						
13:15-13:35	TS-5	2	Comprehensive Assessment of the Role of Rain Barrels and Rain Gardens in Densely Built-up Residential Areas Near Tokyo: A Case Study on Miyahara-Cho in Saitama City, Japan	Jiajing Lin, Hiroyuki Taguchi and Hitoshi Nakamura		864 2218 7679
13:35-13:55	TS-5	8	Applicable Conditions of a Method for Evacuating Inundated Areas via the Shortest Possible Route During Flooding	Takuyou Mizumura, Hiroyuki Taguchi and Hitoshi Nakamura		
13:55-14:15	TS-5	124	Trajectory Estimation on LIDAR-SLAM in Urban Rivers	Naoto Kimura, Masafumi Nakagawa, Takeshi Komori, Nobuaki Kubo and Etsuro Shimizu		
14:15-14:35	TS-5	135	Spatiotemporal Guarantee of Mobile Scanners in Urban Space for Digital Twin	Arata Nagasaka and Masafumi Nakagawa		
Break						
14:50-15:10	TS-6	76	Evaluation of Evacuation-related Signs and Locations in the event of an Earthquake Disaster in the Tokyo Sky Tree Area	Zuming Wei, Takuyou Mizumura, Hitoshi Nakamura and Hiruyuki Taguchi		864 2218 7679
15:10-15:30	TS-6	97	Study on the Historical Significance and Reuse Project of the Iida House in Tsukudajima, Tokyo	Guo Xiaowen, Nakashima Momo, Hagiwara Kei and Shimura Hideaki		



Presentation Schedule
-Innovative Session- Onsite

IS onsite Day1 February 27th

Room **2406/2407**

Time (GMT+9)	Track	Paper ID	Title	Authors	Poster Board #
Preparation					
9:45-10:00	IS-08	4	Ergonomic Risk Assessment in Inspection Process	Trin Ratsameetanin, Pornsiri Jongkol and Rachaneekorn Polpattapee	A-01
	IS-08	11	The Study of the CNC Machine Part by ABC-FSN Analysis in Manufacturing Company	Asst. Prof.Pavee Siriruk and Thanawee Chauiphoklang	A-02
	IS-08	22	A use Case of FlexSim Simulation and Strategic Time Triggering for Enhancing Productivity and Cost-Effective Efficiency in Automated Storage and Retrieval Systems	Thanawat Sukkharak and Nattawat Pinrath	A-03
	IS-08	24	Defective Reduction in Flexible Flat Cable Process by Applying DMAIC Approach	Paphakorn Pittayachawal and Saranwith Kaewsangharn	A-04
	IS-08	37	Optimizing Production Efficiency Through Integrated Divert Conveyor Systems: A FlexSim Simulation Approach	Kittichai Chaiwong and Nattawat Pinrath	A-05
	IS-08	38	Using Information Technology to Reduce Waste in Student Care Process	Manat Detchai and Pornsiri Jongkol	A-06
	IS-08	40	Improving Material Stock Management through LEAN Principle: A Case Study of Office Supplies Stock at Suranaree University of Technology	Saranya Intachot and Pornsiri Jongkol	A-07
	IS-08	62	Study of Musculoskeletal Disorder Risk in Bus Drivers	Kanokporn Piangklang	A-08
	IS-08	106	Supply Chain Operations Reference (SCOR) Model for GI Certified Pak Chong-Khao Yai Durian	Phumrapee Sathaporn, Phongchai Jittamai, Natdanai Chanlawong and Kingkan Kongkanjana	A-09
	IS-08	109	Application of Lean Manufacturing to Design The Material Handling for Minimize Transportation Time: A Case Study of A Plank Concrete Factory	Asst. Prof. Dr. Paphakorn Pitayachaval and Panidnan Ketmetheekarun	A-10
	IS-08	139	A Study on Thai Wellness Tourism Supply Chain Management Using SCOR Model - A Case Study of Thai Traditional Spa Business Entrepreneurs	Kittipos Pornanarat, Phongchai Jittamai, Natdanai Chanlawong and Kingkan Kongkanjana	A-11
	IS-08	141	Application of Lean Concept to Internet Security Risk Assessment Process	Rachar Perdpipat, Paphakorn Pitayachaval, Pornsiri Jongkol and Mananchaya Thawonsawat	A-12
	IS-08	149	Application of Information Technology to Time Reduction in A Process of Research Publications Inspection	Papatsorn Tantiwong, Wisanukorn Samingthong, Sukanya Chatsungnoen, Unchulee Rakdanklang and Pornsiri Jongkol	A-13
	10:00 -11:00				
					A-15
					A-16



Presentation Schedule
-Innovative Session- Onsite

IS onsite Day1 February 27th

Room 2408

Time (GMT+9)	Track	Paper ID	Title	Authors	Poster Board #	
Preparation						
11:00-11:15 11:15 -12:15	IS-07	1	Hydrogen Permselective Membranes Prepared by a Vapor Supply Method	Naoki Sakura, Myuwako Ito, Daisuke Iwakiri, Megumi Irie and Mikihiro Nomura	B-01	
	IS-07	6	Development the Novel 2-step Deposition Method for CO2 Separation Membranes	Myuwako Ito, Naoki Sakura, Daisuke Iwakiri, Megumi Irie and Mikihiro Nomura	B-02	
	IS-07	15	Effects of Solute-Atom Clusters on the Strength of Al-Mg-Si Alloys: An Atomic Modeling Study	Kensuke Kurihara, Mizuki Shoji, Ivan Lobzenko, Tomohito Tsuru and Ai Serizawa	B-03	
	IS-07	19	Mg-doped LiH Epitaxial Thin Films for Functional Development of Hydrides	Kota Munefusa, Takayuki Harada and Hiroyuki Oguchi	B-04	
	IS-07	29	Formation Behavior of Nanoclusters and GP Zones in Al Alloys: Diffusion Barrier Analysis and Monte Carlo Simulation	Mizuki Shoji, Kensuke Kurihara, Ivan Lobzenko, Tomohito Tsuru and Ai Serizawa	B-05	
	IS-07	45	Hairpin RNA TAR Induces Energy Transfer of the Fluorescent Proteins Cerulean and Venus Tethering with Tat Peptide	Aoi Itou, Kanae Manabe and Keita Hamasaki	B-06	
	IS-07	46	Dual Hairpin RNA, RRE-SC1 Align Hetero Fluorescent Proteins Venus and Orange	Shohei Suda, Keita Hamasaki, Koichi Harada and Mullah Muhaiminul Islam	B-07	
	IS-07	48	Association of SC1 RNA Enables Parallel Structural Arrangement of Cerulean and Venus with RGGboxpeptide as a Linker	Ayato Otorii, Takuya Yamamoto and Keita Hamasaki	B-08	
	IS-07	51	Hairpin RNA TAR Associate with Tat Fused Fluorescent Protein Venus and Fold It Enable to Exhibit Enhanced Emission	Kentaro Hamasaki and Keita Hamasaki	B-09	
	IS-07	56	Olefin Synthesis through Zeolite Membranes for CO2 Utilization	Masaki Furukawa, Hiroto Tsuyuki and Mikihiro Nomura	B-10	
	IS-07	60	Exploration of High Temperature Carbon Dioxide Separation Membrane Materials	Kenichi Mitsuzawa, Masahide Matsuoka, Yuta Kuribayashi, Haruki Kurata and Mikihiro Nomura	B-11	
	IS-07	65	Epitaxial Thin Film Growth and Elemental Substitution of Perovskite Hydrides	Erika Fukushi, Fumiya Mori, Atsuo Kazama, Kota Munefusa, Takayuki Harada and Hiroyuki Oguchi	B-12	
	IS-07	68	MgH2 Epitaxial Thin Film Growth by Effectively Using Active Hydrogen	Yuki Shimoman, Takayuki Harada, Hiroyuki Oguchi and Kota Munefusa	B-13	
	IS-07	78	CaH2 Thin Film Synthesis Using Infrared Laser Deposition Method	Yuto Katsuki, Kota Munefusa, Risako Hachida, Takayuki Harada and Hiroyuki Oguchi	B-14	
	IS-07	79	LiBH 4 Film Growth Using Ionic Liquid-Assisted Vapor Deposition	Takumi Tozawa, Keiichi Iso, Kei Iwasaki, Takayuki Harada and Hiroyuki Oguchi	B-15	
	IS-07	111	Nanomaterial Characterisation in the Commercial Cosmetics Using Synchrotron Techniques Toward Risk Assessment	Pirutchada Musigapong and Eugenia Valsami-Jones	B-16	
	IS-07	119	Deposition Conditions of Silica Membranes for Hydrogen Separation	Keita Yabe, Kota Ichihara and Mikihiro Nomura	B-17	
	IS-07	125	Development of Surface Modified Ceramic Membranes for Water Vapor Permeation	Takahiro Muto, Towa Horiguchi, Yuta Kuribayashi and Mikihiro Nomura	B-18	
						B-19
						B-20
					B-21	



Presentation Schedule
-Innovative Session- Onsite

IS onsite Day1 February 27th

Room **2406/2407**

Time (GMT+9)	Track	Paper ID	Title	Authors	Poster Board #
Preparation					
13:00-13:15	IS-01	28	Study of Dependence on Nozzle Form and Visualization of Flow in Liquid Film Drying in Processing Coating Materials	Ken Akase, Daisuke Negishi, Haruto Ohdaira and Naoki Ono	A-01
	IS-01	30	Performance Improvement of Gas Separator with Micro-Network Structure Utilizing the Soret Effect	Ryo Masuo, Shunsuke Nobe, Mimori Osada, Yuto Ohara and Naoki Ono	A-02
	IS-01	31	Prototype Study of Micro-structured Particle Separator Utilizing Thermophoresis	Mimori Osada, Shunsuke Nobe, Ryo Masuo, Yuto Ohara and Naoki Ono	A-03
	IS-02	73	Study of Predictive Diagnosis of Railway Tracks from Railway Vibrations Using General Purpose Sensors	Hirofumi Abe and Goro Fujita	A-04
	IS-02	91	Lithium-ion Battery of Electrical Vehicles Modeling and Remaining Useful Lifecycle Assessment	Kittapon Chatwongtong, Tosaphol Ratniyomchai and Wiwat Su-Hren	A-05
	IS-03	26	Development of a Financial Management Program for Car Parking Facilities	Sunanta Radomboon, Sirawut Wongpon, Itsara Sanghuaipai, Patipan Chawala, Phattharanan Chaosuanphaen, Chitapong Wechtaisong and Padej Pao-la-Or	A-06
	IS-03	27	Development of an Excel-Based Room Reservation System to Address Peak Holiday Periods	Pirunpohn Siripak, Aitsara Aunrit, Suchiraya Klaichaiyaphum, Rachata Phuakpradit, Bodin Thungsirir, Chitapong Wechtaisong and Padej Pao-La-Or	A-07
	IS-03	41	Study on In-Memory Database Servers: Implementation and Performance Analysis using Low-Level Language	Le Gao Chen, Yanzhi Li, Tipporn Laohakangvalvit and Midori Sugaya	A-08
	IS-03	90	Study of Heart Rate Variability Responses in Different Virtual Reality Environments	Aarif Suksai and Peeraya Sripan	A-09
	IS-03	137	Enhancing Audio Guidance for Visually Impaired Individuals in Video-based Wearable Walking Assistive System	Akshara Nadayanur Sathis Kanna, Phan Xuan Tan, Eiji Kamioka, Manami Kanamaru, Yuchen Liu and Ujwal Kumar	A-10
	IS-03	138	Evaluation of Voice and Video Communication Applications over Heterogeneous Network Systems: Metrics, Analysis, and Usability Assessment	Aumporn Phunporn, Sirirat Meela, Mintra Fangkaew, Chitapong Wechtaisong and Padej Pao-La-Or	A-11
	IS-03	152	Integrating Adaptive Streaming for Reducing Latency in 360Degree Video Content Delivery for Optimized Utilization of MECCache with Dynamic Tiling	Ujwal Kumar, Phan Xuan Tan, Eiji Kamioka, Akshara Nadayanur Sathis Kanna and Yuchen Liu	A-12
	13:15 -14:15				
					A-14
					A-15
					A-16



Presentation Schedule
-Innovative Session- Onsite

IS onsite Day1 February 27th

Room 2408

Time (GMT+9)	Track	Paper ID	Title	Authors	Poster Board #	
Preparation						
14:15-14:30 14:30 -15:30	IS-05	18	Investigating the Long-Term Effects of Thermal Cycling from Energy Pile on Secondary Consolidation in Soft Bangkok Clay	Thiti Chanchayanon, Apiniti Jotisankasa and Shinya Inazumi	B-01	
	IS-05	42	Survey on Evacuation of Older Adults during a Tsunami: Evidence from Shimoda City	Wang Yichuan, Shijiki Yudai, Taguchi Hiroyuki and Nakamura Hitoshi	B-02	
	IS-05	55	A Study of Effectiveness and Difficulties of the Delta Program in the Netherlands	Takumi Ikezawa, Hiroyuki Taguchi and Hitoshi Nakamura	B-03	
	IS-05	59	Possibilities and Issues of Upland Relocation Measures for Tsunami Risk Reduction: A Case Study of Uchiura-Omosu District in Numazu City	Yudai Shijiki, Hiroyuki Taguchi and Hitoshi Nakamura	B-04	
	IS-05	89	Sustainable Urban Mobility Policies: An Institutional Perspective	Panalath Lathouly and Michael Henry	B-05	
	IS-05	94	Analysis of Distribution and Condition of National Road Bridges by Road Segment in the Kingdom of Bhutan	Masaya Okada, Michael Henry and Dhan Chhetri	B-06	
	IS-05	113	Evaluation of Wireless Transmission for 3D-LiDAR Point Cloud Processing	Yusuke Eshima, Arata Nagasaka and Masafumi Nakagawa	B-07	
	IS-05	134	Point Cloud Acquisition with LiDAR-SFM/MVS for Lunar Survey	Rikako Shigefuji, Noguchi Karin, Masanori Takigawa, Keitaro Kitamura, Takahiro Hiramatsu, Taizo Kobayashi and Masafumi Nakagawa	B-08	
	IS-05	136	Preliminary Experiment on Infrastructure Inspection Screening from Water-borne MMS	Teruhiko Meguro, Naoto Kimura, Masafumi Nakagawa, Takeshi Komori, Nobuaki Kubo and Etsuro Shimizu	B-09	
	IS-05	143	Evaluation of Range Measurement for Marker Detection in Marker-based LiDAR-SLAM	Tomoki Sugihara, Rikako Shigefuji and Masafumi Nakagawa	B-10	
	IS-05	146	3D Modeling of Bridge Piers using Water-borne MMS Point Clouds	Kantaro Kanai, Masafumi Nakagawa and Tetsu Yamaguchi	B-11	
	IS-05	161	Positioning Accuracy Evaluation of CLAS for Infrastructure Inspection	Kazuki Ohira, Kazuha Saito and Masafumi Nakagawa	B-12	
	IS-05	164	Clarifying the Knowledge Necessary for Conducting Tapping Inspection of Infrastructure	Aya Takeishi and Michael Henry	B-13	
	IS-05	165	The Use of Cognitive Analysis to Conceptualize Changes in Governance Towards Sustainability	Ludmila Soares Carneiro and Michael Henry	B-14	
	IS-06	34	The Study on the Spatial Organization of Shophouse in High-Density Areas, Case Study: Khlong-Toei Market, Bangkok, Thailand	Tharin Darunaithorn and Ikuro Shimizu	B-15	
						B-16
						B-17
						B-18
						B-19
						B-20
					B-21	



Presentation Schedule
-Innovative Session- Online

IS online Day1 February 27th

Room 2403					
Time (GMT+9)	Track	Paper ID	Title	Authors	Zoom ID
10:00-10:15					
10:15-10:30					
10:30-10:45					
10:55-11:10	IS-08	66	Utilizing Lean Principles to Enhance Efficiency in Engineering Project Expense Reimbursement Processes of the Institute of Engineering, Suranaree University of Technology	Veerin Arthans, Paphakorn Pitayachaval and Pornsiri Jongkol	871 9629 8144
11:10-11:25	IS-08	80	Reduction of Errors in the NBTC's Unmanned Aerial Vehicle Possession Registration System	Nara Samattapong and Piyaphat Kerdpai boon	
11:25-11:40	IS-08	130	Polynomial Regression Model Development to Determine the Optimal Number of Construction Workers to Complete the Project Within Deadlines and Maximize Profitability	Prida Takon, Natdanai Chanlawong and Nara Samattapong	
11:40-11:55	IS-07	126	Hydrogenation of m-Cresol over Platinum Catalyst -Non-Linear Arrhenius Rate	Nhung Duong and Daniel Resasco	
13:15-13:30	IS-07	16	Binderless Zeolite Pellet: Preparation, Characterization and CO2 Capture Application	Vinh San Phan Vo, Duc Thang Tran, Tu Hieu Le, Minh Thuan Nguyen, My Linh Nguyen Thi and Quang Long Nguyen	871 9629 8144
13:30-13:45	IS-08	12	Application of Industrial Engineering Tools to Solve Problem of Dredging Water Source Project Delay	Narongchai Kruaprasit, Pornsiri Jongkol and Mananchaya Thawonsawat	
13:45-14:00	IS-08	85	Application of Cause and Effect Analysis to Improve Process of Flood Management: A Case Study of Ban Prasart Community	Pornsiri Jongkol, Chanok Khunpethwan and Tanakan Seemaroeng	
14:00-14:15	IS-08	104	Improving the Maintenance Management System of Buildings Departments. Case Study: Defense Technology Institute, Chaengwattana	Paphakorn Pitayachaval and Prasan Phaophang	
14:15-14:30	IS-05	58	Research on the Characteristics of Traffic Accidents and Related Factors in Laos	Daisuke Murota, Michael Henry and Amphayvanh Keopadith	
14:30-14:45	IS-05	39	Increasing the Efficiency of Construction Project Management with PERT/CPM Techniques under Uncertainty of Time and Cost (Case Study: a Petroleum Terminal Construction Project)	Pavee Siriruk and Phutares Saklang	

WS Day1 February 27th

Adegawa Theater					
Time (GMT+9)	Track	Title	Authors	Zoom ID	
10:00-11:30	Workshop1	Robot Technology (RT) for Addressing Social Issues			847 5247 1431
		Workshop Chair: Takeshi Sasaki			
		Objective: Due to the recent advances in sensors, actuators, and information and communication technologies, more Robot Technology (RT) elements as well as robots themselves have been introduced to our society. RTs enables us to provide physical assistance to users and are expected to contribute to solving social issues. This workshop will provide a great opportunity for the participants to present their ideas and technical achievements and aims to discuss RTs and robot systems for addressing social issues including aging society, environmental problems, economic disparity.			
		Development of Avatar Robot for Disabled People	Siam Charoenseang, Poonsiri Jailungka and Chaowwalit Thamminno		
		Development of Reception Mobile Robot in Department Stores	Supachai Vongbunyong, Kitti Thamrongaphichartkul, Natkamon Khantee and Tanakorn Teerabundit		
		Development of Tele-Presence Mobile Robots for Disabled People	Supachai Vongbunyong, Kitti Thamrongaphichartkul and Wuttichai Visarnkuna		
		Modified Random Adaptive Differential Evolution Algorithm for Mobile Robot Localization	Linh Tao, Hieu Tran, Ngoc Tam Bui, Toshio Ito and Hiroshi Hasegawa		
		Multi Sensor Fusion for Indoor Autonomous Drone Localization	Phuwanat Phueakthong, Nattawat Pinratn and Jittima Varagul		
User Interface for Remote Control of Mobile Robots with Automatic Camera Switching in Intelligent Space	Takeshi Sasaki and Yusaku Nakamura				
13:15-14:45	Workshop2	Microplastics in natural waters: in-situ measurement and effects on microorganisms			847 5247 1431
		Workshop Chair: Yoshikazu Koike Workshop Co-chair: Nobuyuki Futai, Uma Maheswari Rajagopalan			
		Objective: The universities in mid-town of Tokyo are required on contributions to preservation of water resources because there are a lot of canal and Tokyo city is faced with Tokyo bay. Additionally, microplastics spread in natural waters like river or sea becomes global significant problem. A lot of SIT laboratories research analysis methodologies and monitoring system. In the workshop, the plan or the results are presented.			
		(Invited) Baseline correction and carbonyl index (CI) calculations of microplastics	Zijiang Yang and Hisayuki Arakawa		
		Laser speckles in conjunction with deep learning algorithms in the discrimination of microplastics and their use in brine shrimps mobility	Uma Maheswari Rajagopalan		
		Surface plasmon biosensor for drug monitoring in liquid phase	Koji Toma, Yui Satomura, Kenta Iitani, Takahiro Arakawa and Kohji Mitsubayashi		
		The relationship between frequency and particle size in the capture of microplastic particles	Hironori Seki, Kunpisit Kosumsupamala, Nitipon Puttaraksa and Yusuke Matsumoto		
		A microfluidic device for fluorescent-based marine microplastic separation	Natsuo Hasegawa, Takahiro Suzuki, Yoshikazu Koike, Hisayuki Arakawa and Nobuyuki Futai		
Fabrication of optical waveguides with microfluidic channels for analysis of microplastics by Raman spectroscopy	Haruki Imamura, Akinobu Komiya, Yoshikazu Koike and Hideki Yokoi				
Study on concentration method of ocean microplastic for in-situ observation	Takumi Ishiyama, Hiroataka Mine, Rikuya Nihei, Natsuo Hasegawa, Nobuyuki Futai, Hisayuki Arakawa and Yoshikazu Koike				



Presentation Schedule

-Technical Session -

TS Day2 February 28th

Room 2301

Time (GMT+9)	Track	Paper ID	Title	Authors	Online	Zoom ID
10:00-10:20	TS-1	103	Compare LSTM Model and Transformer Model for Recognition of Activities of Daily Living from Wearable Sensor Data	Tien Nguyen and Motoki Takagi		899 3446 4188
10:20-10:40	TS-1	117	Evaluation of Autonomous Driving Control for Folding Electric Wheelchair	Xingyang Zhang and Toshiya Hirose		
10:40-11:00						
11:00-11:20						



Presentation Schedule

-Technical Session -

TS Day2 February 28th

Room **2305**

Time (GMT+9)	Track	Paper ID	Title	Authors	Online	Zoom ID
10:00-10:20	TS-3	99	Design of a Travel Recommendation System based on User Preference	Kiruthika Raja, Tipporn Laohakangvalvit and Midori Sugaya		857 5809 4489
10:20-10:40	TS-3	101	Distributed Storage of Aerial Environmental Data Collected by UAVs Based on Blockchain	Yuanhang Yang, Ryusei Sugano, Ryoichi Shinkuma and Taku Yamazaki		
10:40-11:00	TS-3	120	Performance Comparisons of YOLOv8 and YOLOv5 for Drone Detection	Manot Mapato, Tanaset Thodsdeekorapat, Supawat Kotchapradit, Worachet Pethaisong, Tanapat Siriphum and Anurak Choosri		
11:00-11:20						



Presentation Schedule

-Technical Session -

TS Day2 February 28th

Room **2306**

Time (GMT+9)	Track	Paper ID	Title	Authors	Online	Zoom ID
10:00-10:20	TS-5	98	Machine Learning for Network-Level Pavement Deterioration Prediction: A Comparative Assessment of ANN and KNN with Limited Data	Azam Amir and Michael Henry		864 2218 7679
10:20-10:40	TS-5	121	Verification of Indoor-outdoor Seamless Positioning and Camera Position Rectification Systems Mounted on Infrastructure Inspection UAVs	Kazuha Saito, Masafumi Nakagawa, Yusuke Kawasaki, Masaaki Takebayashi, Hirotooshi Kurashige, Shozo Nishimura and Masafumi Miwa		
10:40-11:00	TS-5	163	Exploratory Analysis of the Factors Affecting Pavement Condition in Kenya	Angela Odera, Azam Amir and Michael Henry		
11:00-11:20						



Presentation Schedule
-Innovative Session- Onsite

IS onsite Day2 February 28th						
Room 2406/2407						
Time (GMT+9)	Track	Paper ID	Title	Authors	Poster Board #	
8:45-9:00 Preparation						
9:00 -10:00	IS-04	17	Exploration of High Temperature Carbon Dioxide Separation Membrane Materials	Daiki Yanai, Yuya Sato, Hiroto Tsuyuki, Itsuki Ito and Mikihiro Nomura	A-01	
	IS-04	36	Study on Reducing Urban Heat Island Effect through Resident Greening Activities.	Beijia Sang and Ikuro Shimizu	A-02	
	IS-04	84	Study on Optimal Combination for Agrivoltaics in the FIP System	Kengo Saito and Tomoko Iwata	A-03	
	IS-04	92	Development of a Basic Model for Forecasting FIP Project Electricity Sales Revenue Taking into Account Uncertainties	Kotaro Shimura and Tomoko Iwata	A-04	
	IS-04	93	Differences Between Developed PV and Battery Installation Revenue Simulation Model and Actual Results in Rental Apartment	Yoshinobu Date and Tomoko Iwata	A-05	
	IS-10	52	A Vector-valued Cellular Automaton Model Representing a Pedestrian Bi-directional Flow	Ryoji Morisawa and Akiko Fukuda	A-06	
	IS-11	83	Anxiety Levels and Causes for Higher-Education Entrance Examinations Among 12th-Grade Students	Punnawitch Lertteerawat, Thanyanat Garin and Chitapong Wechtaisong	A-07	
	IS-11	123	Enhancing Multicultural Team Performance through Strategic Interventions: A Study on Japanese and Thai University Students	Kyoko Kato, Paritud Bhandhubanyong and Jutathip Leelathanapipat	A-08	
	IS-11	128	Teamwork Skill on a Project-Based Learning Course for Multidiscipline Student Program	Kanokporn Boonjubut, Thanaphon Sakonphattharasorn, Wutthiphong Sanbudda, Apisara Wichean and Chitapong Wechatisong	A-09	
	IS-11	151	The Key Factors Influencing Implementation of Cloud-Based Knowledge Management System (KMS) from Socio-Technical Perspective Using the Unified Theory of Acceptance Use of Technology 2 (UTAUT2) Model	Anneke Yolanda and Kadarsah Suryadi	A-10	
						A-11
						A-12
						A-13
						A-14
						A-15
						A-16



Presentation Schedule
-Innovative Session- Onsite

IS onsite Day2 February 28th

Room **2408**

Time (GMT+9)	Track	Paper ID	Title	Authors	Poster Board #	
10:00-10:15	Preparation					
10:15 -11:15	IS-09	7	Effects of Low Molecular Weight Compounds on Melanin-Producing Cells	Toshiki Yamamoto, Rio Oki and Ichiro Yajima	B-01	
	IS-09	9	Investigation of The Effect of Novel Retinoid Derivatives on Human Lung Adenocarcinoma Cells	Makito Motoyama, Ryouta Shigehuku, Kouta Tonegawa, Yoshitomo Suhara and Ichiro Yajima	B-02	
	IS-09	10	Effect and Analysis Mechanism of Novel Peptides on UV-induced Cell Damages	Miu Arai, Moeka Sogo, Yoshitomo Suhara and Ichiro Yajima	B-03	
	IS-09	21	Development of A Novel Method for Evaluating Cell Differentiation Using Machine Learning	Yurika Shibuya, Tsuyoshi Kimura and Naoko Nakamura	B-04	
	IS-09	64	Inhibitory Effects of Tocotrienols on Weight Gain and Cognitive Dysfunction in Mice Fed with a High fat High Sucrose Diet	Shuntaro Kashiwaya, Junhyeok Byeon, Atsuya Noto, Yugo Kato and Koji Fukui	B-05	
	IS-09	67	Isolation and Characterization of Pyrene Degrading Bacteria from Anterctic Soil	Shigeo Namoto and Azham Zulkharnain	B-06	
	IS-09	69	Biodegradation Kinetics of Heterocyclic Compounds by Immobilized Antarctic Bacteria	Ryuhei Cho, Siti Aqlima Ahmad and Azham Zulkharnain	B-07	
	IS-09	70	Heterocyclic Compounds Degradation Using Antarctic Isolated Bacteria Strain BS19	Chengliu Wang, Siti Aqlima Ahmad and Azham Zulkharnain	B-08	
	IS-09	71	Heterologous Expression of Meta-cleavage Enzyme Involved in Carbazole Degradation	Soei Hayashi and Azham Zulkharnain	B-09	
	IS-09	72	Investigation of Growth Conditions of Phenanthrene-Degrading Bacteria Isolated from Antarctic Soil	Sere Nakamura, Siti Aqlima Ahmad and Azham Zulkharnain	B-10	
	IS-09	77	Absorption of Carbazole by Activated Carbon Immobilized Thalassospira sp. MR7	Xinyi Hu and Azham Zulkharnain	B-11	
	IS-09	86	Polylactic Acid (PLA) Degradation Ability and Degradation Genes in Strain N-3	Raishin Nakamichi	B-12	
	IS-09	87	Isolation of Pyrene and Fluorene Degrading Bacteria	Kota Ashizawa and Azham Zulkharnain	B-13	
	IS-09	96	Characterization of Di(2-ethylhexyl) phthalate (dehp) Degrading Bacteria from Antarctic Soils	Yudai Inagaki, Siti Aqlima Ahmad and Azham Zulkharnain	B-14	
	IS-09	105	Quantitative Analysis of Bacterial Biofilm Formation on Surface Processed Titanium	Chihaya Noro, Azham Zulkharnain and So Yoon Lee	B-15	
	IS-09	115	Biodegradability of Newly Developed Polylactic Acid (PLA) Film Using Amycolatopsis oliviviridis SCM_MK2-4T	Pheeraya Jirapattapanorn, Watsana Penkhrue, Sutinee Girdthep and Azham Zulkharnain	B-16	
						B-17
	IS-09	145	Potential Evaluation of Cassava Industrial Wastes for Bioplastic Production Process of Polyhydroxyalkanoates (PHAs) from Rhizosphere Bacteria	Taratip Thummapimuk, Teeraporn Wiangnon, Jutamas Sanharat and Watsana Penkhrue	B-18	
	IS-09	158	Evaluation of Pharmacokinetics of a Novel Vitamin K Derivative, C3ME, Aimed at the Treatment of Neurodegenerative Disease	Rina Watanabe, Taiki Sato, Kohei Murata, Yoshitomo Suhara and Yoshihisa Hirota	B-19	
	IS-09	159	Creation of Vitamin K Derivatives Targeting RNA Polymerases Involved in SARS-CoV-2 Proliferation	Mayu Hayakawa, Taiki Honma, Kana Yamaguchi, Yoshitomo Suhara, Yoshihisa Hirota and Ryohto Koharazawa	B-20	
IS-09	160	Measurement of Menadione and its Conjugates for Comprehensive Understanding of Vitamin K Metabolism	Shintaro Tagami, Satoshi Asano, Ryo Tomioka, Maya Kamao, Miyu Nishikawa, Shinichi Ikushiro and Yoshihisa Hirota	B-21		

Presentation Schedule
-Innovative Session- Online



IS online Day2 February 28th

Room 2403					
Time (GMT+9)	Track	Paper ID	Title	Authors	Zoom ID
10:45-11:00	IS-02	35	Detection of Adulteration in Alcoholic Beverages Using Deep Tensor Neural Networks	Thai Pham and Jiang Liu	871 9629 8144
11:00-11:15	IS-03	81	Towards Developing a Biofeedback Companion Robot for Productivity Enhancement through Flow State	Udit Pradhan, Felipe Yudi Fulini, Kaoru Suzuki, Tipporn Laohakangvalvit and Midori Sugaya	
11:15-11:30	IS-11	95	General Queue System	Vichitra Chanboon and Nara Samattapapong	
11:30-11:45	IS-11	127	Developing Female Human Resources in Science and Engineering in School Education	Norie Aoki and Hideyo Makishita	
11:45-12:00	IS-09	131	Feasibility of Hand Gesture Bioimpedance Measurement as a Tool to Support Hand Injury Diagnosis	Minh Quan Cao Dinh, Quoc Tuan Nguyen Diep, Hoang Nhut Huynh, Anh Tu Tran, Phuong Anh Bui, Congo Tak Shing Ching and Trung Nghia Tran	



Presentation Schedule
-Workshop Session-

WS Day2 February 28th

Adegawa Theater				
Time (GMT+9)	Track	Title	Authors	Zoom ID
9:15-10:45	Workshop3	Toward the Science and Technology of the Future		
		Workshop Chair: Simon Kojima, Shinichi Ito, Taiki Fushimi, Kensuke Kurihara, Masataka Inoue, Masahiro Ohwada, Hin Wang Ng		
		Objective: The objective of this workshop is to enhance the understanding of all participants towards current advancements in science and technology and its future direction among the next generation of scientists, engineers, and students. Moreover, to foster collaboration among young researchers and engineers from diverse specialties to drive innovation from a variety of perspectives through the open forum for discussing challenges and opportunities related to the science and technology of the future.		
		Toward the Science and Technology of the Future	Hin Wang Ng, Kensuke Kurihara, Masahiro Ohwada, Simon Kojima, Masataka Inoue, Taiki Fushimi and Shinichi Ito	847 5247 1431
11:00-12:30	Workshop4	How universities shape the entrepreneurship and innovation of tomorrow		
		Workshop Chair: Toshihiro Kose, Yutaka Hasegawa, etc.		
		Objective: To build a common understanding on entrepreneurship and innovation, as well as industry-academia-government collaboration in technical universities: · Understand the importance of entrepreneurship education · Share information on how the universities are working on academia-government collaboration, entrepreneurship development, and creation of university-related startups Build a common understanding on roles of technical universities in driving entrepreneurship and innovation		
		BOiCE, an innovation base for strengthening joint research and nurturing university-related startups	Toshihiro Kose and Yutaka Hasegawa	847 5247 1431
		Entrepreneurship Education and Business Model Competition at SIT	Yutaka Hasegawa	
Innovation for Disaster Information Priority Management Systems Using Blockchain	Sumiko Miyata and Ryoichi Shinkuma			
Pushing the Conventional Boundary: Journey of KX in Empowering Innovators and Entrepreneurs Towards Success	Patrachart Komolkiti			