SEATUC Symposium 2016 Final Program

February 23, Tuesday

Plenary Session (9:30-12:30)

Large Lecture Room (Multi-Activity Building)

9:30-9:45	Opening Ceremony
9:45-10:15	Keynote Speech
	JICA's Assistance in Higher Education Sector in Southeast Asia and Contribution to Science and Technology Promotion
	-Takao Toda (Director General, Human Development Department, Japan International Cooperation Agency (JICA))
10:30-12:30	President Panel

Special Session (13:30-15:00)

Four distinguished professors will serve their presentation.

Room #403 (chair: Prof. Goro Fujita [SIT])

SS01	High Power Long Distance Wireless Power Transfer System for EV Dynamic Charging
	- As a Demonstrator of Center for Power Electronics in SIT-
	Kan Akatsu (Professor, SIT)
SS02	Project for Development of Low Carbon Society (LCS) Scenarios for Asia Regions
	Ho Chin Siong (Professor, UTM)

Room #404 (chair: Prof. Muralidhar Miryala

SS03 Recent Development of Smart Materials and Biomedical Engineering Research in Thailand Anak Khantachawana (Assistant Professor, KMUTT)

SS04 Preparation and Application of Microfibrillated Cellulose (MFC) from Bamboo for Composite Materials

Bui Chuong (Professor, HUST)

Technical Session (15:30-18:00)

Time slot 1 (15:30-16:30)

Room #403 (chair: Prof. Kimiyoshi Usami [SIT])

- OS02-01 A Preliminary Study of Background Colour Effects for Elderly and Young People by Using Near Infra-Red Spectroscopy
- Muhammad Nur Adilin Mohd Anuardi, Hideyuki Shinohara, Atsuko K. Yamazaki OS02-02 Affective Evaluation for Material Perception of Bead-Coated Resin Surfaces Using Visual and Tactile Sensations: Selection of Evaluation Items Focusing on Color Effects Wataru Morishita, Ryuji Miyazaki, Michiko Ohkura, Masato Takahashi, Hiroko Sakurai, Kiyotaka Yarimizu, Akira Nakahara
- OS02-03 Effects of Emotionally Induced Sounds to the Language Area of the Brain Ainaa Farhanah binti Ismail, Atsuko K. Yamazaki

Room #404 (chair: Prof. Muralidhar Miryala [SIT])

OS06-01 Plasma Nitriding of Fine Micro-Patterned Martensitic Stainless Steel Mold for Injection Molding Tharitwach Aswapanyawongse, Tatsuhiko Aizawa

OS06-02	The Theory of Tin Whiskers Growth Behaviour for Pure Tin Surface Finish Nor Akmal Fadil, Siti Zahira Yusof, Ali Ourdjini
OS06-03	Effect of Parameters in High Pressure Die Casting on Surface Quality Nattawat Pinrath, Prapakorn Pitayachaval, Pongsak Dulyapraphant, Verachai Arjharn
Room #40	5 (chair: Prof. Akihiko Hanafusa [SIT])
OS04-01	Preliminary Survey of Trematode Metacercariae in Cyprinoid Fish from Lam Pao Dam, Kalasin, Thailand
OS04-02	Nipawan Labbunruang, Jeerapaporn Insrichaengmai, Sasirin Chairach Cercarial Emergence and Longevity of Opisthorchis Viverrini in Bithynia Siamensis Goniomphalos Jutharat Kulsantiwong, Sattrachai Prasopdee
OS04-03	Decline in the Abundance of Fish in the Main Tributaries of the Mekong River in Upper Northeastern Thailand Wiwat Kaensa, Chanapond Rattanamalee
Room #40	6 (chair: Prof. Kazunori Mano [SIT])
	A Machine Learning Based Network Monitoring and Management System Tan Phan-Xuan, Eiji Kamioka
OS02-05	An SDN-Based Approach to Reduce Wireless Mobile Devices Energy Consumption Toan Nguyen-Duc, Eiji Kamioka
OS02-06	A Study of a Native Docker Clustering System on a Power-Constrained Environment Chanwit Kaewkasi, Wichai Srisuruk, Bhuridech Sudsee, Pathawee Ngoenthai
Room #40	7 (chair: Prof. Masahiro Inoue [SIT])
OS11-01	The Radio Frequency Heating to Eliminate Microorganisms in Wine Packaged in Glass Jars Sealed Chanon Srisuma, Kompisit Krajaipote, Worawut Boonpeang, Poramin Kuntayom, Supawat, Kochapradit, Sumran Santalunai, Thanaset Thosdeekoraphat, Chanchai Thongsopa
OS11-02	Effect of Current Stress on Formation and Crystallinity of Multilayer Graphene by Solid Phase Precipitation
OS11-03	Md. Sahab Uddin, Hiroyasu Ichikawa, Shota Sano, Kazuyoshi Ueno Water Condensation Generator Based on Peltier Cooler Module Aittitep Phungmuang, Assoc Prof Dr Peerapong Uthansakul
Room #50	5 (chair: Prof. Naoki Ono [SIT])
OS08-01	EMS Location Analysis to Minimize Service Risk Natdanai Chanlawong, Phongchai Jittamai
OS08-02	Speed-Flow Relationship for Two-Lane Single Carriageway Road Othman Che Puan, Nur Syahriza Muhamad Nor, Nordiana Mashros
OS08-03	Simulation of Navigation Control and Obstacle Avoidance for AGV by Computer Vision with Artificial Neural Networks Jittima Varagul, Toshio Ito
Room #50	6 (chair: Assoc. Prof. Pornsiri Jongkol [SUT])
OS04-04	Combination of Impedance Cardiography (ICG) and Electrocardiography (ECG) in Detecting Characteristic Points on ICG Curve Nguyen Minh Duc, Hoang Thi Nga, Nguyen Tuan Linh, Nguyen Thai Ha, Nguyen Duc Thuan
OS04-13	How Does the Yeast Saccharomyces Cerevisiae Cope with Stresses? Nitnipa Soontorngun
OS04-06	Price Strategy Study of Two Cassava Processing Manufacturers Salintip Pumpeam, Pavee Siriruk
Room #50	7 (chair: Prof. Chiaki Nakayama [SIT])
OS12-01	14 Years Experience of "Sutstructor" the In-House 2D Structure Analysis Software Thanakorn Kaewsiriwan, Rungsun Insoon, Natta Orprasert, Manita Paichatturas, Sart Sukprasert, Suksun Horpibulsuk
OS12-02	Program Design on Global Project Based Learning for Multicultural and Multidisciplinary Engineering Students in Collaboration with Local Communities Sayoko Oda, Hiroshi Hasegawa, Atsuko K. Yamazaki, Masahiro Inoue, Yoshimi Furukawa, Kazunori Mano

OS12-03 Integrated Learning towards a Trend of the 21st Century Classroom On-Uma Lasunon, Suopor Hiranchiracheep

Time slot 2 (17:00-18:00)

Room #40	3 (chair: Prof. Atsuko K. Yamazaki [SIT])		
OS02-07	Evaluation of Levels of Kawaii Ribbons between Japanese and Saudi Arabians		
	Barnawi Enayyah Mohammed, Michiko Ohkura		
OS02-08	The Study of Kawaii Feeling by Using Eye Tracking		
	Tipporn Laohakangvalvit, Ikumi Iida, Saromporn Charoenpit, Michiko Ohkura		
OS02-09	The Accessibility of South East Asian Technical Universities Websites Sorachai Kamollimsakul		
Room #40	4 (chair: Prof. Ayako Yamamoto [SIT])		
	Bagasse Fiber-Chloroacetated Natural Rubber Composites:		
	Esterification Crosslinking		
	Ploenpit Boochathum, Kanjanabha Sratongmao, Anusara Hiransri		
OS06-05	An Adaptive De-Cubing Processing for Laminated Object Manufacturing (LOM) Based on Contour Proportion in Each Square Cube		
	Paphakorn Pitayachaval, Paramate Horkaew, Niramol Chaphol		
OS06-06	The Influence of Reheat-Treatment on Properties of Diamond-Like Carbon Film Nutthanun Moolsradoo		
Room #40	Room #405 (chair: Assoc. Prof. Kenichi Iwata [SIT])		
OS04-07	Fractionation and Antioxidant Activities of the Protein Hydrolysate from Boletus Mushroom		
	(Boletus Colossus)		
	Jindaporn Khongdetch, Natta Laohakunjit, Orapin Kerdchoechuen, Khanok Ratanakhanokchai,		
0004 00	Surapong Pinitglang Crein Membalagu and Mineral Flamants Contant in Rice Londrooss		
OS04-08	Grain Morphology and Mineral Elements Content in Rice Landraces Theera Thummawongsa, Kanya Manok, Kanyarat Chaekkrathok, Saijai Posoongnoen		
OS04-09	Functional Properties of Fractionated Maize Protein Hydrolysate Obtained by Ultrafiltration		
0001 07	Orrapun Selamassakul, Natta Laohakunjit, Orapin Kerdchoechuen		
Poom #10	6 Johoir: Drof. Kozupori Mono (SITI)		
	6 (chair: Prof. Kazunori Mano [SIT]) Vibration-Based Data Communication between Smartphones		
0502-10	Keishi Usa, Eiji Kamioka		
OS02-11	A Comparison between Two Image Detection Algorithms on Neck Angle Detection and a Prolonged		
	Usage Classification Concept		
	Worawat Lawanont, Pornchai Mongkolnam, Chakarida Nukoolkit, Masahiro Inoue		
OS02-12	Speaker Change Detection Considering Mobile Device Environment		
	Masashi Tateno, Eiji Kamioka		
Room #40	7 (chair: Prof. Kazuyoshi Ueno [SIT])		
OS11-04	A Current-Mode Sinusoidal Quadrature Oscillator Using Single CCCFTA		
	Thanaset Thosdeekoraphat, Chanchai Thongsopa, Worawut Boonpeang, Supawat Kochapradit,		
	Charinsak Saetiaw, Saksit Summart		
OS11-05	The Effects of Stray Field in Difference of Bit Patterns Exposure on Read Head Performance		
0.04.5	Ploybussara Gomasang, Rardchawadee Silapunt		
OS11-06	Study and Analysis of the Different Microwave Drying Power Effects on the Microstructure of Air		
	Dried Sheet (ADS) Rubber Kompisit Krajaipote, Worawut Boonpeang, Chanon Srisuma, Poramin Kuntayom,		
	Supawat ,Kochapradit, Thanaset Thosdeekoraphat, Samran Santalunai, Chanchai Thongsopa		
	Suparrat prostaprada, rhanaset rhosacekorapha, Sannan Santarana, Chanchar rhongsopa		

Room #505 (chair: Prof. Naoki Ono [SIT])

- OS08-04 Integral Abutment Bridge Model Exploration: Different Boundary Condition from Simply Supported to Fully-Fixed Muhammad Khairil Ibrahim, Azlan Ab Rahman, Baderul Hisham Ahmad, Fairul Zahri Mohamad Abas
- OS08-05 Towards Japan's Future EV-Friendly Highway Concept with In-Motion Road-Embedded Wireless Chargers

Azreezal Zairee Bin Omar, Goro Fujita

Room #506 (chair: Assist. Prof. Nitnipa Soontorngun [KMUTT])

OS04-10 Hand and Foot Anthropometry of Elderly Suwittaya Thienpratharn, Pornsiri Jongkol, Wannisa Nutkhum, Porapat Sinlapasat

- OS04-11 Finite Element Method for Evaluation of Transfemoral Prosthesis Sockets Le Van Tuan, Onishi Kengo, Otsuka Hiroshi, Agarie Yukio, Akihiko Hanafusa, Shinichiro Yamamoto
- OS04-12 Quantiative Analysis and Evaluation of Prosthetic Sockets for Trans-Femoral Amputees Kazuma Kurosawa, Yoshitaka Kudo, Takuya Saito, Yukio Agarie, Hiroshi Otsuka, Kengo Onishi, Akihiko Hanafusa, Shin-Ichiro Yamamoto

Room #507 (chair: Prof. Kazuhisa Ito [SIT])

- OS05-01 Design and Prototyping for Control an Automated Storage and Retrieval System Parinyawat Boonsingh, Wichai Srisuruk, Kontorn Chamniprasart
- OS05-02 Development of a Small Interface Robot Using RT-Middleware as a Common Robot Platform Mirai Shimoyama, Kazuma Fujimoto, Motohiro Yasuda, Nobuto Matsuhira
- OS05-03 Factory Automation System for Learning: Automate Material Handling System Piyapong Nootong, Kontorn Chamniprasart

Poster Session (15:00-15:30, 16:30-17:00)

Poster presenters have to appear in front of your posters in both time slots.

4F Lobby

PS01-01	An Investigation of Soil Battery Voltage Efficiency with Several of Parameters Narong Mungkung, Somchai Arunrungrusmi, Pakpoom Chansri, Toshi fumiyuji
PS01-02	High Nitrate Wastewater Treatment Using Biofilter with Natural Media Jiranan Jattutasri, Soydoa Vinitnantharat, Sivawan Phoolphundh
PS01-03	Methane Emission from Powder Organic Fertilizer and Granule Organic Fertilizer in Paddy Field Sasidhorn Buddhawong, Sivawan Phoolphundh, Sawanya Junbang, Soydoa Vinitnantharat
PS01-04	The Effect of Building Form Manipulation on Cooling Load Performance of Medium Rise Building Wan Sharizatul Suraya, W.M.Rashdi, Mohamed Rashid Embi
PS01-05	Acid Concentration through Ultrahigh Flux Membranes Kotone Oura, Motoki Kitajima, Ayumi Ikeda, Mikihiro Nomura, Takahiro Saito, Hiromasa Tawarayama, Shinji Ishikawa, Kazuya Kuwahara
PS01-06	Ethanol Permeation from Sake through Ceramic Membranes Hitoshi Aoki, Gabriel Gama da Silva Figueiredo, Motoki Kitajima, Kotone Oura, Ayumi Ikeda, Mikihiro Nomura
PS01-07	Developments of Ion Exchange Membranes for the Thermochemical Hydrogen Production I-S Process
	Takehide Kodaira, Kotone Oura, Ayumi Ikeda, Mikihiro Nomura, Yasuhito Naka, Shin-ichirou Imabayashi, Shin-ichi Sawada, Tetsuya Yamaki, Nobuyuki Tanaka, Shinji Kubo
PS02-01	Dollhouse-Smart House Interface: Age 3+ Operates Household Appliances Shohei Imanara, Ryota Horie

PS02-02	Multi-Objective Planning and Optimization for Wimax Site Placement: Case Study in Nakhon Ratchasima City, Thailand Chitapong Wechtaigsong, Chutima Prommak, Ekkaluk Eksook
PS02-03	Quantization Noise Reduction of Linear PCM Sound by Using Denoising Auto-Encoder Shohei Oouchi, Kazunori Mano
PS02-04	Emotion Perception Analysis in Whispered Speech Yuya Matsumoto, Kazunori Mano
PS02-05	Beaconless Approach to Maintain Optical Link for Free- Space Laser Communication Keiichi Yano, Koichi Gyoda
PS02-06	A Visualization Method of Human Speech Impressions by Using Speech Balloons Tomohiro Yamada, Kazunori Mano
PS02-07	The Multiple-Linear Regression Model for Analyzing the Factors of Customer's Purchasing Process Eri Usami, Vajirasak Vanijja, Masahiro Inoue
PS03-01	CASBEE-City (Worldwide Use) Assessment in Johor Bahru Akmal Hakim, Loon Wai Chau, Chin Siong Ho, Shuzo Murakami, Toshiharu Ikaga, Shun Kawakubo
PS03-02	Integrated Stop Transit for Pedestrian in Pasir Gudang Nur Syazwani Saari, Sharifah Salwa Mahdzar, Sara Jaberolansar
PS03-03	The Zoning System in Japan: The Coexistence of High- and Low-Rise Buildings Serge Gérard N. Ekpodessi, Jun Watanabe, Hitoshi Nakamura
PS03-04	Navigation for Location-Based Data Acquisition Using Geofences Masafumi Nakagawa, Toshiaki Kamio, Hiroaki Yasojima, Yosuke Miyagaki
PS03-05	Geo-Tagged Image Acquisition and Management in Sabo Facility Inspection Masafumi Nakagawa, Yosuke Miyagaki, Tomoya Nuno, Yuuki Saito, Yasuaki Noda, Kazuyuki Hashimoto, Masaya Ito, Masahiro Miyo
PS03-06	Patch-Based Texture Reconstruction from Colored Point Cloud Masafumi Nakagawa, Tomoya Nuno, Takuya Takahashi, Yumi Hanawa, Sho Takayama
PS03-07	Development of Seismic Response Control Rack for Automatic Warehouse Hidetaka Funaki, Fumitoshi Kumazawa, Kenji Kabayama
PS04-01	Expression of Recombinant Protein ORF2 from Porcine Circovirus in Escherichia Coli without Isopropyl-β-Thiogalactoside Inducer Truong Quoc Phong
PS04-02	Exploitation of Bioactive Components from Extracts of Ginger, Galangal to Preserve of Squid and Cuttlefish PhanThanh Tam, Nguyen Hai Yen, Le Sy Hong Lam
PS04-03	Effect of Inclined Support Surface on Postural Strategy during Platform Translation Jun Kawano, Shin-Ichiro Yamamoto
PS04-04	Quantitative Assessment for Trans-Femoral Prosthetic Socket Yoshitaka Kudo, Kazuma Kurosawa, Takuya Saito, Yukio Agarie, Hiroshi Otsuka, Kengo, Onishi, Akihiko Hanafusa, Shin-ichiroh Yamamoto
PS04-05	HIV-1 Tat or Rev Fused Fluorescent Proteis, Their Regulation for Emission Induced by Binding with Corresponding RNAs
	Yusuke Ito, Chie Nakagawa, Naoki Ooizumi, Syougo Yokota, Kazuya Takahashi, Seiya Urata, Hiroaki Kozuka, Keita Hamasaki

February 24, Wednesday

Intensive Workshop (9:00-16:00)

Room #403

Intensive workshop will be held for the final presentations of "Intensive Workshop", one of a common course in Master course, Shibaura Institute of Technology. Anyone is welcome to join this session and discuss with presenters.

Technical Session (9:00-16:00)

Time slot 1 (9:00-10:20)

Room #40	Room #404 (chair: Prof. Muralidhar Miryala [SIT])		
OS06-07	High Density Plasma Nitriding of Pure Titanium		
	Josephine M. Windajanti, T. Aizawa, D.J. Djoko H.S.		
OS06-08	Low Temperature Plasma Nitriding of Pure Tantalum for Industrial Applications Tatsuhiko Aizawa		
OS06-09	Performance Evaluation of Ankle Foot Orthoses Based on Biosignal Feedback and Ankle Position Dimas Adiputra, Saiful Amri Mazlan, Hairi Zamzuri, Mohd Azizi Abdul Rahman		
OS06-10	Investigation of Design Parameters Affecting on Mechanical Properties of Coronary Artery Stent Made by Shape Memory Alloys Sutthinai Uthaiwattananont, Anak Khantachawana		
Room #40	5 (chair: Prof. Mitsuo Yamashita [SIT])		
OS04-05			
OS04-14	The Study on Multi-Stage Bio-Extract Production from Wastewater Originated from Virgin Coconut Oil Manufacturing Process with Fish Wastes		
	Sasithorn Kusuwanwichid, Sudarut Tripetchkul, Saengchai Akeprathumchai		
OS04-15	Rhizobium Isolates Antagonistic Activity against Fusarium sp. FT-04 Cause of Fusarium Wilt of Tomato		
	Kingchan Malisorn, Nathapong Malisorn		
OS04-16	Possible Role of Phenolic Compounds on Vermicomposting of Coir Pith Kanokwan Pundee, Saengchai Akeprathumchai, Sudarut Tripetchkul		
Room #40	6 (chair: Assoc. Prof. Hiroaki Morino [SIT])		
OS02-13	The Tradeoff between Power Consumption and Average Throughput for Energy Efficient Macrocell Strategy Nur Ellina Binti Ishak, Eiji Kamioka		
OS02-14	Network Selection in Heterogeneous Network Using Analytic Hierarchy Process N. Effiyana Ghazali, S. H. S. Ariffin, M. A. Baharudin		
OS02-15	Precise Packer Detection Using Model Checking Nguyen Minh Hai, Do Duy Phong, Quan Thanh Tho, Le Duc Anh		
OS02-16	Reducing Packet Losses during Handover Process via Simple Adaptive RSS Threshold Concept Muhammad Ariff Baharudin, Eiji Kamioka		
Room #407 (chair: Prof. Yoshihiro Niitsu [SIT])			
OS11-07			
OS11-08	Analytical Framework for Velocity-Considered SINR Based Vertical Handoff with Dynamic Threshold		
	Damar Widjaja, Peerapong Uthansakul		

OS11-09	The Ring Antenna with I-Shaped Feeding on Circulary Reflector Plane for RFID Applications Nuchanart Fhafhiem, Piyadanai Boonmaitree, Apinya Innok
OS11-10	Investigation on the Effect of User Position in Mimo Cognitive Radio Systems with Overlapping Spectrum Sharing
	Rattasat Laikanok, Peerapong Uthansakul, Monthippa Uthansakul
Room #50	3 (chair: Prof. Mikihiro Nomura [SIT])
OS01-01	Using Well Logging Data to Predict Permeability of a Complex Formation Fadhil Sarhan Kadhim, Ariffin Samsuri , Ahmad Kamal Idris
OS01-02	Feasibility Study of Positioning for Free-Fall Type Underwater Observatory System Using Dynamic Image Analysis
	Kouki Noguchi, Yuta Sato, Takuya Matsumoto, Kenta Hata, Yoshikazu Koike, Hiroaki Morino, Etsuro Shimizu, Kunio Sakata, Shigeo Itoi, Yoshinari Kou, J Itaru Kawakami, Kuniaki Kurihara, Junich Muramoto
OS01-03	S1 PWR Subchannel Void Distribution Using CFD Methods T.K.D. Hoang, P.K. Nguyen, V.H. Pham, X.L. Bui
OS01-04	Development and Verification of Offshore Wind Farm Layout Optimization Numerical Model with Wake Losses Danai Kollasuta, Chawin Chantharasenawong
Poom #50	4 (chair: Prof. Goro Fujita [SIT])
OS10-01	Building Thermal Modeling Based on Energy Consumption and Ambient Temperature Minh-Hoang LE, Trung-Kien NGUYEN
OS10-02	Reactive Current Compensating Device for High-Frequency Transformer Takahiro Ogiya, Satoshi Ogihara, Kazuo Kobayashi, Satoshi Matsumoto
OS10-03	Cyclability Performance of Electric Double Layer Capacitor with Glass Wool Separator Mohd Ferdaus Mohammad Yaacob & Zulkarnain Ahmad Noorden
OS10-04	Direct Power Control for Dual-Active-Bridge Converter Nguyen Duy Dinh, Goro Fujita
Room #50	5 (chair: Prof. Hitoshi Nakamura [SIT])
OS03-01	Urban Theories and a Lighting Master Plan for Historic Quarters in Bangkok Jirachet Meemootti, Chanyaporn Chuntamara
OS03-02	Urban Tissue of Tokyo Inner Harbor Case Study of Shibaura District Hidetoshi Maeda
OS03-03	Creating Child-Friendly Environment through Artworks in Cities Tun Mohd Irfan Mohd Suria Affandi, Ismail Said
OS03-04	River as a Public Space Corridor in a City Mohd Hisyam Rasidi, Sara Izrar Aziz
Room #50	6 (chair: Prof. Masahiro Shibata [SIT])
OS04-17	Anticancer Activity of Mulberry Suspension Cultured Cells Induced by Elicitors Rittipun Rungruang, Orapin Kerdchoechuen, Natta Laohakunjit
OS04-18	Quantification of the Vitamin K3 Concentration Mio Sawada, Yoshitomo Suhara, Nobuo Watanabe
OS04-19	Effectiveness of Thai Plant Medicinal Extracts against the Fungi Collectotrichum spp., the Causal Agents of Chili Anthracnose Metinee Wasoontharawat, Kravintra Songkampoo, Kunlaya Kaewked
OS04-20	Effect of Volatile Organic Compounds from Phomopsis sp. (JA1B1-2) as Plant Growth Promoters and Their Antifungal Activities Sakuntala Siri-Udom, Saisamorn Lumyong
Room #50	7 (chair: Prof. Nobuto Matsuhira [SIT])
OS05-04	An Assistive Sute with Intention Detection Using Pneumatic Artificial Muscles Hiroshi Suzuki, Daisuke Morisaki, Takahiro Kanno, Yukio Kawakami, Kenji Kawashima
OS05-05	Adaptive Communication Mechanisms of Responsible Servers for Distributed Care Robot Systems Satoru Nakayama, Miyuki Nakano, Midori Sugaya

- Design of High-Speed Automatic Visual Inspection Machine for Head Gimbal Assembly (HGA) OS05-06 Prathan Ch, Sorada K , Jiraphon S
- Proposal of Foot Structure with Linear Springs for Biped Robot OS05-07 Nguyen Van Tinh, Hiroshi Hasegawa

Time slot 2 (10:50-11:50)

Room #40	14 (chair: Prof. Ayako Yamamoto [SIT])
OS06-11	Feasibility Study of Dealloying Corrosion Prevention in Manganese Aluminium Bronze (MAB) Thunyaphorn Piankijsakul, Napachat Tareelap, Kaysinee Sriraksasin, Nakorn Srisukhumbowornchai
OS06-12	Accurate Metal Flow Analysis in the Micro-Extrusion Process of Aluminum Alloys Alsunayyin Khalid, Tatsuhiko Aizawa
OS06-13	A Study of Friction Coefficient of Gas Soft Nitriding and Sulfur Nitring Treatment on the Plain Carbon and Alloy Steel
	Somsak Siwadamrongpong, Sirijit Champee
Room #40	15 (chair: Prof. Shin-ichiro Yamamoto [SIT])
OS04-21	Preventive Potential of Extract from Germinated Soybean against Diabetes Pasjanant Hiran, Orapin Kerdchoechuen, Natta Laohakunjit
OS04-22	Evaluation and Selection of Rice Landraces for Early Drought Tolerance Aduldach Taweephum, Boonanun Kaewkunok, Theera Thummawongsa, Saijai Posoongnoen
OS04-23	Probiotic Cashew Apple Pulp Fermented with Lactic Acid Bacteria and Bifidobacteria Ratchadaporn Kaprasob, Orapin Kerdchoechuen, Natta Laohakunjit
Room #40	6 (chair: Prof. Yoshihiro Niitsu [SIT])
OS02-17	Unknown English Words Automatic Detection System with Eye-Tracking Hikari Itani, Eiji Kamioka
OS02-18	Detection of Learner's Concentration in Distance Learning System Kimario Nizetha Daniel, Eiji Kamioka
OS02-19	Effects of Amplified Amplitudes of English Speeches on Brain Function Kazukiyo Inada, Atsuko K. Yamazaki
Room #40	17 (chair: Prof. Koichi Gyoda [SIT])
OS11-11	Wideband Slot Antenna for Mimo Systems
	Apinya Innok, Watcharaphon Naktong, Nuchanart Fhafhiem
OS11-12	Design of a Quasi-Rhomboid Shaped Antenna with Cylindrical Parabolic Reflector for Ultra Wideband Communications
	Supawat Kochapradit, Worawut Boonpeang, Charnon Srisuma, Poramin Kumrayom, Kompisit Krajaipote, Thanaset Thosdeekoraphat, Chanchai Thongsopa
OS11-13	Mushroom Shaped Monopole Antenna Which Has Tuning on Ground Plane with Slot Etching
	Technique Is Two Layers of Stair for Applying Ultrawideband (UWB) Technology
	Watcharaphon Naktong, Apinya Innok, Supatinee kornsing, Amnoiy Ruengwaree
Room #50	3 (chair: Assist. Prof. Sivawan Phoolphundh [KMUTT])
OS01-05	The Experimental Study of Thailand Seasonal Coefficient of Performance of Heat Pump Water Heater
OS01-06	Natcha Ohnjaikla, Surachai Sanitjai, Piyatida Trinuruk, Amornrat Kaewpradup New Membrane Shape Ceramic Adsorbents for Water Purification
0501-00	Mikihiro Nomura, Ayumi Ikeda, Yuki Hayashi, Shotaro Tanaka, Yo Matsuo, Toyomitsu Itai
OS01-07	Decomposition of Tar from Biomass Gasification over Carbonaceous Material Supatchaya Konsomboon, Suneerat Fukuda
Deers #50	
	4 (chair: Prof. Goro Fujita [SIT]) Electrical Tree Growth Performances of Plasma Treated Silicone Rubber Based Nanocomposites

Electrical Tree Growth Performances of Plasma Treated Silicone Rubber Based Nanocomposites OS10-05 F. N. Musa, N. Bashir, M. H. Ahmad

- OS10-06 A Study on the Pressure Dependence of Wedge Air-Gap Discharge Voltage in Insulated Coating Conductors Torii Hirotaka, Matsumoto Satoshi
- OS10-07 Effect of Accelerated Thermal Ageing on Electrical Properties of Vegetative Oil under High Voltage Stress

Nor Asiah Muhamad, Mohd Fikri Hilmi Mohd Taib, Abdul Ariff Abdullahamed, Yanuar Z. Arief, Mohd Hafizi Ahmad, Zuraimy Adzis

Room #505 (chair: Prof. Hitoshi Nakamura [SIT])

OS03-05 Affrodances of Street Environment during Children's Home-School Journey in Old City Zone of Makassar

Arti Manikam Asrun, Ismail Said, Dilsan Remaz Ossen

- OS03-06 Safety and Risk Assessment Systems for Underground Space Facilities in Shanghai Shan Lu, Nakamura Hitoshi, Yu Shu
- OS03-07 Applying the Rudimentary Method for Cultural Ecosystem Services Provision through Urban Squirrel Movements Noraini Bahari, Ismail Said

Room #506 (chair: Prof. Asao Nakamura [SIT])

- OS07-01 Enhancement of Lipid Production of Oleaginous Green Microalga, Ankistrodesmus Densus Wipawan Siangdung, Kalyanee Paithoonrangsarid, Saiwaree Ngoenphoemsup, Panya Triratana, Boosya Bunnag
- OS07-02 Gel Electrophoresis Ideally Identifies and Authenticates Cave and House Edible Bird's Nests from Common Adulterants

Lee Ting Hun, Waseem A. Wani

OS07-03 Synthesis of Wax Esters from Palm Oil and Cetyl Alcohol by Alkali-Catalyzed Transesterification Sirirat Wilaikaew, Kornkanok Aryusuk, Narumon Jeyashoke, Kanit Krisnangkura

Room #507 (chair: Prof. Nobuto Matsuhira [SIT])

- OS05-08 Case Study Applying the Machine Vision for Face Detection and Recognition System Suphen Thawatcharaphorn, Sorada Khaengkarn, Kontorn Chamniprasart
- OS05-09 Contour Based Objects Pose Estimation Using Differential Evolution Algorithm Tao Ngoc Linh, Hiroshi Hasegawa
- OS05-10 Robotic Curve Tracking and Reproduction Using Machine Vision Phuwarin Sinmaroeng, Pichitra Uangpairoj, Kontorn Chamniprasart

Time slot 3 (13:00-14:20)

Room #404 (chair: Prof. Tatsuhiko Aizawa [SIT]) OS06-14 Effect of Mechanical Alloying on Hydrogen Cycling of Magnesium Hydride (MgH2) at Elevated Temperatures A. Miizan, T. Ashida, A.Takasaki OS06-15 Comparison of Microstructure and Mechanical Properties of Hard-Facing Welds Generated by GTAW and OAW Welding Processes Jongkol Srithorn, Kampoon Promsupha OS06-16 Nb2O5 and Si Enhanced Hydrogen Sorption Kinetics Synthesized by Mechanical Milling M. A. Shamsudin, K. Mineo, A. Takasaki OS06-17 Perovskite-Type Mn-Based Oxygen Storage Materials Synthesized by Mechanical Milling Kengo Nishihara, Alicja Klimkowicz, Tetsuya Yamazaki, Akito Takasaki Room #405 (chair: Assoc, Prof. Sota Yamamoto [SIT]) OS04-24 Production of Flavored Kluay Hom Tong for Milk Additive Agent Sorasak Ngamsanga, Natta Laohankunjit, Orapin Kerdchoechuen OS04-25 Theaflavins Improve Circulatory Function through Sympathetic Nerve System Akiko Saito, Masahiro Shibata, Takeshi Ishii, Tsutomu Nakayama, Naomi Osakabe Baked Foams Compositing of Cassava Starch, Eucalyptus Fiber, and Gluten Protein for Food OS04-26 Packaging

Nattapon Kaisangsri, Orapin Kerdchoechuen, Natta Laohakunjit

OS04-27	Effect of Erythrocyte's Density upon the Rheological Behavior in the Micro-Tube Flow Hiroshi Yonezawa, Fumiya Kobayashi, Masahiro Shibata, Nobuo Watanabe
Room #40	6 (chair: Prof. Eiji Kamioka [SIT])
	Real Time Obstacle Detection and Avoidance Using Kinect Depth Sensor and Pioneer LX Mobile Robot Thanh-Huong Nguyen, Minh-Hoang Le
OS02-21	Intuitive Operation of Drones Using Newly Developed Three-Dimensional Input Device Hiroya Sano, Yuya Mochiyoshi, Michiko Ohkura
OS02-22	Temperature Dependent Sleep Control Using Virtual Ground Voltage Detection for Fine-Grain Power Gating Masaru Kudo, Kimiyoshi Usami
OS02-23	Collecting Data of SNS User Behavior to Detect the Symptom of Its Excessive Usage - Design of Data Collection Application Ploypailin Intapong, Tiranee Achalakul, Michiko Ohkura
Room #40	7 (chair: Prof. Masahiro Inoue [SIT])
OS11-14	A University Testbed for Data Transmissions over Visible Light Communication Channels Do Trong Tuan, Ha Duyen Trung
OS11-15	Intelligent Water-Saving Irrigation System for Cassava Field Using Fuzzy Controller Teerapat Charoenpru, Tanasan Srikotr, Prayoth Kumsawat
OS11-16	Mobility Prediction for High Speed Vehicle Using User's History Data Traffic with Markov Chain Algorithm Arfah A. Hasbollah, Sharifah H. S. Ariffin
OS11-17	DWT Based Image Compression for Wireless Sensor Networks Tanasan Srikotr, Teerapat Charoenpru, Prayoth Kumsawat
Room #50	3 (chair: Asist. Prof. Sivawan Phoolphundh [KMUTT])
OS01-08	Dry Powder Foods Sterilization Techniques by Atmospheric-Pressure Plasma Narong Mungkung, Somchai Arunrungrusmi, Pakpoom Chansri, Toshi fumiyuji
OS01-09	Effective Hydrogen Separation through Silica Based Membranes Ayumi Ikeda, Mikihiro Nomura
OS01-10	Separation of Alkaline Solutions through Zeolitic Ceramic Membranes Motoki Kitajima, Kotone Oura, Ayumi Ikeda, Mikihiro Nomura
OS01-11	Study on Bioenergy Recovery from Anaerobic Co-Digestion of Glycerol Residue and Treated Palm Oil Mill Effluent Using Anaerobic Hybrid Reactor Chinnapong Wangnai, Pratin Kullavanijaya, Chalermchai Ruangchainikom
Poom #50	4 (chair: Prof. Satoshi Matsumoto [SIT])
	PQ Power Optimization in Hydro-Thermal Power System Using Newton Iteration Technique Luu Huu Vinh Quang
OS10-09	Basic Experiment on 13.56 MHz Coupling System of Wireless Power Transfer for Electric Vehicle Dynamic Charging Nguyen Tri Cuong, Kan Akatsu
OS10-10	Performance Study of Supercapacitor-Battery Integration Scheme for Energy Storage System Nasrur Rasyadi Md Rafie & Zulkarnain Ahmad Noorden
OS10-11	Countermeasures to Voltage Fluctuation during Reclosing Islanded Entity to Utility Tran Thanh Son, Goro Fujita
Room #50	5 (chair: Prof. Hidetoshi Maeda [SIT])
OS03-08	Estimating the Effects of Traffic Heat Reduction through Neighborhood Greening Methods in a World Heritage Site - Malacca, Malaysia Kei Saito, Ismail Said, Michihiko Shinozaki
OS03-09	Modelling Deforestation and Greenhouse Gas Emissions in Iskandar Malaysia Yakubu Aliyu Bununu, Ahmad Nazri Muhamad Ludin, Nafisa Hosni

OS03-10	Achieving Low Carbon Built Environment in Iskandar Malaysia Using Expanded Life Cycle Assessment with Induced Impact: Overview of Existing Assessment System Developed for Iskandar Malaysia	
	Dora Yeap Chu Im, Ho Chin Siong	
OS03-11	The Sustainability Reality of Subdivision Designs in Iskandar Malaysia Anis Shazreen Azmi, M. Rafee Majid	
Room #50	6 (chair: Prof. Yoshihide Suwa [SIT])	
OS06-18	Plasma Oxydation Printing onto Carbon-Based Coatings for Micro-Texturing Ersyzario Edo Yunata, Tatsuhiko Aizawa	
OS06-19	Plasma Oxidation Printing onto the DLC and Ceramic Coatings for Fabrication of Micro-Stamping Dies	
	Nike F.Khusnah, Tatsuhiko Aizawa, Setyawan Sakti	
OS06-20	A Surface Effect of Ceramic Cutting Using Abrasive Waterjet	
	Paphakorn Pitayachaval, Kongkiat Phimchat, Narongsak Thammachot	
Room #507 (chair: Prof. Yukio Kawakami [SIT])		
OS05-11	A Numerical Study of a Rectangular Plate Resulting from Close-In Underwater Explosion Shock Tien-Dat Hoang , Ngoc-Kien Nguyen , Hai-Anh Nguyen	
OS05-12	Structure Analysis of Low Floor Electric Bus Using the Finite Element Method Worakiat Prasatsup, Kontorn Chamniprasart	
OS05-13	An Application of the Parameter-Influence Technique for a Reduced Heat Transfer Model	
	Identification	
	Chanyut Khajorntraidet, Kazuhisa Ito	
OS05-14	Experimental and Modeling Study on a Future Cooling System for Lithium-Ion Battery of Electric Vehicle	
	Naoki Ono, Tatsuya Yamada, Yosuke Hoshi, Takashi Yamada	

Time slot 4 (14:50-15:50)

Room #40	4 (chair: Prof. Tatsuhiko Aizawa [SIT])	
OS06-21	Influence of Heat Treatment Condition on Mechanical Behavior of 6061 Aluminum Alloy Kanokporn Boonjubut, Rattanaporn Wongthong	
OS06-22	Microstructural Interactions during Casting and Artificial Ageing for a Hypoeutectic A356 Aluminium Alloy with Ag and Sc Additions	
	D. Bakavos, Supparerk Boontein, C. Limmaneevichitr, D. Bakavos	
OS06-23	Material Properties of an AZ31 Magnesium Alloy Sheet at Room Temperature Masahiro Ohkawa, Shigeki Mori, Akito Takasaki	
Room #405 (chair: Assoc. Prof. Nobuo Watanabe [SIT])		
OS04-28	Physicochemical, Functional and Prebiotic Properties of Dietary Fiber Prepared from Rice Hull Kulnipa Tanarungrangsee, Natta Laohakunjit, Orapin Kerdchoechuen	
OS04-29	Flavan 3-ols Retarded Disuse Atrophy Induced by Hindlimb Suspension in Mice Mao Ito, Masahiro Nakamura, Yuji Miyake, Naomi Osakabe	
OS04-30	Decolorization of Stevia Syrups by Coagulation/Flocculation Techniques Keerati Thamapan, Natta Laohakunjit, Orapin Kerdchoechuen	
Room #406 (chair: Assoc. Prof. Ryota Horie [SIT])		
OS02-24	Automatic ECG R-Peak Detection Algorithm toward Computational Atrial Fibrillation Diagnosis Mohamad Sabri, Eiji Kamioka	
OS02-25	Walking Support System for Blind People Using Phosphene Manami Kanamaru, Eiji Kamioka	
OS02-26	Evaluation of Feelings of Excitement in Driving Simulator by ECG Yoshihiro Harada, Haruhiko Nakatsuji, Yosuke Tate, Hiroki Seto, Takeshi Aikawa, Kodai Ito, Michiko Ohkura	

Room #407 (chair: Prof. Kimiyoshi Usami [SIT])

- Generating Evacuation Routes by Using Drone System and Image Analysis to Track Pedestrian and OS11-18 Scan Area after Disaster Occurrence Aljehani Maher, Masahiro Inoue
- OS11-19 Mathematical Modeling of Pixel Identification Base on Thermal Imaging for Real Time Dead Animal Detection Worawut Boonpeang, Kompisit Krajaipote, Chanon Srisuma, Poramin Kuntayom, Supawat ,Kochapradit, Sumran Santalunai ,Thanaset Thosdeekoraphat, Chanchai Thongsopa

Room #504 (chair: Prof. Satoshi Matsumoto [SIT])

Partial Discharge Characteristics of Low-Density Polyethylene and Effect of Nanofiller Using Pulse OS10-12 Sequence Analysis

Yanuar Z. Arief, Mohd Hafizi Ahmad, Nor Asiah Muhamad, Rudi Kurnianto, Noor Aliaa Awang, Rainer Patsch

- OS10-13 Numerical Consideration of Integrated Radial and Dual Axial-Flux Ferrite Magnet Machine Takatoshi Sunaga, Shoji Shimomura
- Effect of Humidity and Nanofiller on Self-Healing Properties of Silicone Rubber OS10-14 Zuraimy Adzis, Muhammad Taufik Kamaruddin, Yanuar Z. Arief, Mohd Hafizi Ahmad, Izzah Hazirah Zakaria

Room #505 (chair: Prof. Hidetoshi Maeda [SIT])

- OS03-12 Framework of Decision Making for Managing Variations to Construction Design Norazam Othman, Abdul Ghani Khalid, Sarajul Fikri Mohamad, Zuhaili Mohamad Ramly, Mohd Saidin Misnan, & Zakaria Mohd Yusof
- OS03-13 Building Attributes Acquisition Using High Resolution Satellite Sar Data and Airborne Lidar Data Tatsuya Yamamoto, Masafumi Nakagawa
- OS03-14 Camera Path Design for Panoramic Image Acquisition Shido Tanaka, Sho Takayama, Masafumi Nakagawa

Room #506 (chair: Prof. Yoshihide Suwa [SIT])

- A Part Orientation Analysis Based on Support Structure OS06-24 Paphakorn Pitayachaval, Apichet Koncam
- Strain-Induced Phase Transformation from Martensitic to Austenitic Phases by Nitrogen Solid OS06-25 Solution

Abdelrahman, Tatsuhiko Aizawa

OS06-26 Effect of Particle Size Compatibilizer and Waste Melamine Formaldehyde Content on Characteristics of Highdensity Polyethylene Matrix Composites Somsak Siwadamrongpong, Janjira Aphirakmethawong

Room #507 (chair: Prof. Masaomi Kimura [SIT])

- OS05-15 A Research on Energy Efficiency Improvement of Water Hydraulic Motor System Pha N. Pham, Kazuhisa Ito
- OS05-16 Efficiency Improvement of Hydraulic System with Boosting Suction Line and Load Sensing Technique

Ryo Yagisawa, Kazuhisa Ito

A Permutation-Based Genetic Algorithm for Solving the Machine Layout of Manufacturing System OS09-01 Suphatra Kritwattanakorn, Kontorn Chamniprasart, Wanwanut Boongsood

Poster Session (10:20-10:50, 14:20-14:50)

Poster presenters have to appear in front of your posters in both time slots.

4F Lobby

PS05-01 Optimization of Resonance Frequencies in a Rotor Dynamic System by Applying the Multi Objective Genetic Algorithm

Tien-Dat Hoang, Ngoc-Kien Nguyen, Hai-Anh Nguyen

PS05-02	The Study of Factors Influencing to Surface Hardness of Hardened Carbon Steel -SCM440 Grade in Hard Turning
	Peerapong Kasuriya, Komson Jirapattarasilp
PS05-03	Development of a New Cooling System for Lithium-Ion Battery of Electric Vehicle Utilizing Phase
	Change Material and Heat Pipes
PS05-04	Tatsuya Yamada, Kazuhiro Kudo, Naoki Ono Observation and Measurement of the Vapor Phase and Its Flow Velocity in a Heat Pipe System
	Yosuke Hoshi, Ryo Ueno, Hitoshi Nakamura, Takashi Yamada, Naoki Ono
PS05-05	Fault Diagnosis for Water-Hydraulic Servo Cylinder System with Kalman Filter Shohei Tsuruda, Kazuhisa Ito
PS05-06	Development of Eldery Pedestrian Accident Simulation Model and Evaluation of Injury Risk Tomoaki Wakamiya, Sota Yamamoto
PS05-07	Bending Stiffness of Stent Graft by 4-Point Bending Test Yuya Sato, Sota Yamamoto
PS05-08	Biomechanical Evaluation of Hip Pad for Elderly Male Hip Fracture Abe Takamiti, Sota Yamamamoto
PS06-01	Characterization of Carbon Materials Prepared from Biomass Charcoals
PS06-02	Kamonwan Aup-Ngoena, Mai Noipitaka, Kornkanok tangjitmanb Efficiency Improvement of Small-Drilling on Titanium Alloys by Diamond-Like Carbon Coatings
F300-02	Nutthanun Moolsradoo
PS06-03	Fracture Analysis of Gantry Crane Gear Tooth by Nondestructive Evaluation Method Mai Noipitak, Sittisak Charunetratsamee
PS06-04	Osteoblast Proliferation on Graphene Oxide Electrodeposited on Anodized Titanium for Orthopedic
	Implants Pacharaporn Tanurat, Sirinrath Sirivisoot
PS06-05	Study on Tool Performance of Drill Coated with Diamond-Like Carbon Coatings for Drilling on
	Duplex Stainless Steel Grade Uns S31803 Suthiphong Sopha
PS06-06	Effect of Heat Treatment Cycle to the Microstructural Analysis of Service-Exposed Ni-Cr Alloy Turbine Blade
	Nuzul Hazwani Mohamad Hanafi, Astuty Amrin, Roslina Mohammad
PS06-07	Viscosity Evaluation of Air Foam Mixed Soil for Foam Injection Shield Tunneling Method Mika Yamamoto, Yoshihide Suwa, Atsushi Kagawa
PS08-01	Study on the Settlement Behavior of Embankment on the Soft Ground Reinforced by Soil-Cement
	Columns Le Ba Khanh, Le Ba Vinh, Ngo Binh Giang, Nguyen Tan Bao Long
PS08-02	Time Required for Take-Over from Automated to Manual Driving When Exiting the Highway
PS08-03	Arata Takada, Toshio Ito Driver Modeling in Unconcsious Driving State
1500 05	Kenta Yamazaki, Toshio Ito
PS08-04	Nighttime Pedestrian Detection by On-Board Monocular Camera Yuki Takata, Toshio Ito
PS10-01	Adjusting the Energy Value of Water Consumption for PQ Power Optimization in Hydro-Thermal
	Power System Luu Huu Vinh Quang
PS10-02	Comparing the Impacts of the SVCs and the SCs Affecting to the Transient Stability in
	Multi-Machine Power System Luu Huu Vinh Quang
PS10-03	Using the Transient Energy Function to Assess the Dynamic Stability in Multi-Machine Power System
	Luu Huu Vinh Quang
PS10-04	Terahertz Spectroscopy of Freon Substitute Refrigerant and Molcular Vibration Analysis Yukinari Hirai, Ryo Saito, Tatsuya Ishizuka, Satoshi Matsumoto
PS10-05	Moth-Flame Optimization for Optimal Reactive Power Dispatch Khai Phuc Nguyen, Goro Fujita

- PS11-01 A Design of Patch Antenna Operated in Ultra High Frequency with Graphene and Titatium Diocide Nateetorn Fugto, Sirinrath Sirivisoot,
- PS11-02 Noise Reduction Based on a New Sensor Mounting Method in Tilt Measurement with Analog Accelerometer Hung Viet Dao, Takashi Komeda
- PS12-01 Promoting the Entrepreneurship Intention of Engineering Students in Vietnam: A Brief Review and Proposed Measuring Model
 - Trang Doan Thi Thu, Le HieuHoc, Kien Dao Trung
- PS12-02 The Effective Comparison of Feedforward Training of Visual Defect Inspection Patterns in Welding Phonsak Lerthiranphanya

Closing Session (16:20-17:00)

Large Lecture Room (Multi-Activity Building)

Closing event will be prepared. Every participant join the final session.

SEATUC Symposium 2016 organizing committee will present Best Paper Award and Best Poster Award

to good presentations to boost young researchers or young staff members towards the cutting edge of research.