

2017-ISBNST Symposium Program
(E-13 Nien-Tzu International Conference Hall)

v.4

October 19 (Thursday)

08:00-09:00	Registration (E-13 Lobby)			
09:00-09:30	Opening Ceremony (Room: E1301) Opening remark: Prof. Chein Tai <i>The President of Southern Taiwan University of Science and Technology, Taiwan.</i>			
09:30-10:30	Keynote Lecture 1 (Room: E1301) Prof. I-Ming Chen <i>Professor of School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore.</i> <i>Title: Innovations in Infrastructure Service Robotics</i> Chair: Prof. Cheng-Hsin Chuang			
10:30-11:00	Coffee Break			
11:00-12:00	Keynote Lecture 2 (Room: E1301) Prof. Nilo Bugtai <i>Professor and Chair of Department of Manufacturing Engineering & Management, De La Salle University, Philippines.</i> <i>Title: Sustainable Development for Philippine Biomedical Devices Innovation: The DLSU-Manila Initiatives</i> Chair: Prof. Aaron Raymond See			Poster Presentation 1 (Session A & D) (E-13 Lobby)
12:00-13:00	Lunch Break (Room: E1302 - E1303)			
13:00-14:30	Poster Presentation 2 (Session B & C) (E-13 Lobby)			
	Session A Room: E602	Session B Room: E604	Session C Room: E1305	Session D Room: E1301
14:30-15:00	Invited Prof. Irsyadi Yani <i>Professor of Department of Mechanical Engineering, Universitas Sriwijaya, Indonesia.</i> <i>Title: Recyclable Bottle Identification System Using the Quality of a Color</i> Chair: Prof. Cho-yu Lee	Invited Prof. Tadahiko Maeda <i>Professor of Graduate School of Information Science and Engineering, Ritsumeikan University, Japan.</i> <i>Title: Design and measurement techniques for antenna systems placed in the vicinity of a human body</i> Chair: Prof. Tsang-Yi Wang	Invited Prof. Shyh-Jier Huang <i>Distinguished Professor of Department of Electrical Engineering of National Cheng Kung University, Taiwan.</i> <i>Title: Next-Generation Wireless Charging Perspective: Electric Vehicles Applications</i> Chair: Prof. Tsung-Shiun Lee	Invited Prof. Yasuhito Shimada <i>Professor of Department of Integrative Pharmacology, Mie University Graduate School of Medicine, Japan.</i> <i>Title: Zebrafish in Drug Discovery: Disease Models and Chemical Screening for Obesity and Cancer Research</i> Chair: Prof. Ching Feng Weng
15:00-15:30	Oral I-Chih Wu <i>Title: Lock-in thermography for defect localization of IC package after board level reliability drop test</i> Krerkkiat Sasiwimonrit <i>Title: Re-activating polymer electrolyte membrane fuel cells without environmental control</i> Quoc Thien Pham <i>Title: The development and application of servo motor driven TPA system</i> Chair: Prof. Nai-Shang Liou	Invited Prof. Teerasit Kasetkasem <i>Professor of Department of Electrical Engineering, Kasetsart University, Thailand.</i> <i>Title: Super Resolution Mapping Algorithm Based on Level Set Methods</i> Chair: Prof. Tsang-Yi Wang	Oral Welsey Daniel C. Advincula <i>Title: Visualization Toolkit for Medical Image 3D Reconstruction: A Review</i> Chokcharat Rityen <i>Title: Microcontroller based Lemons Counting and Sorting Machine</i> Chair: Prof. Ji-Jer Huang	Invited Prof. Ching Feng Weng <i>Professor of Department of Life Science, National Dong Hwa University, Taiwan.</i> <i>Title: In silico approaches potentiate herbal compounds screening for new drug discovery</i> Chair: Prof. Yasuhito Shimada
15:30-16:00	Oral Daniela Martinez Alvarez <i>Title: Plant Growth Model under EMF Radiation Treatment</i> Mahmoud Ibrahim <i>Title: Influence of Laser Power and Scanning Speed on the Hardness and Microstructure of Fe-Based Metallic Glass Coating on Nickel-Free Stainless Steel Substrate</i> Chair: Prof. Sheng-He Wang	Invited Prof. Tsang-Yi Wang <i>Professor of Institute of Communications Engineering, National Sun Yat-sen University, Taiwan.</i> <i>Title: Robust Distributed Estimation in Wireless Sensor Networks in the Presence of Sensor Faults</i> Chair: Prof. Teerasit Kasetkasem	Oral Delfin Enrique G. Lindo <i>Title: Recent Developments of Laparoscopic Instruments for Minimally Invasive Surgery</i> Tatsana Thomthong <i>Title: Parabolic Solar Tracking Concentrator Development for Drinking Water</i> Chair: Prof. Seng Chi Chen	Oral Shih-Ting Lin <i>Title: The production of γ-aminobutyric acid (GABA) from waste feedstocks- A preliminary study on carbon sources</i> Ping Shen <i>Title: In vitro biosynthesis of 3-hydroxypropionic acid from biomass</i> Pei-Hsuan Su <i>Title: Fabrication of Catanionic Vesicles from Pseudotriple-Chained Ion Pair Amphiphiles</i> Chair: Prof. Jian-Chyi Chen
16:00-16:30	Coffee Break			
16:30-17:00	Invited Prof. Yu-Lung Lo <i>Distinguished Professor, Department of Mechanical Engineering, National Cheng Kung University, Taiwan.</i> <i>Title: Optimized Parameters in Manufacturing for 3D Selective Laser Melting System-Simulation and Experiment</i> Chair: Prof. Sheng-Chang Wang	Oral Francis Carl L. Belista <i>Title: Conceptual Design of a Smart Aeroponics Vertical Farming System</i> Raphael Benedict G. Luta <i>Title: Supervised Learning for Multi-label Classification of pH Levels</i> Ming-Jong Lin <i>Title: A Practical Approach on the Immersed-oil Transformer Fault Diagnosis with the Duval Triangle Scheme</i> Chair: Prof. Wei-Wen Hu	Oral Francisco Emmanuel T. Munsayac Jr III <i>Title: Design Analysis of a Sugarcane Cutter using Finite Element Method</i> Aira Patrice Ong <i>Title: Recent Advancements on Human Motion Technology and Tracking Systems in Sport and Exercise Biomechanics</i> Chair: Prof. Chun-Ju Hou	Oral Jian-An Su <i>Title: Electrochemical approach for biochemical analysis in microbial culture system</i> Guan-Wei Chiu <i>Title: The edible film production from seed gum of Hyptis suaveolens</i> Wei-Cheng Wang <i>Title: The potent anti-inflammatory actions of Guilu Erxian Glue extracts remedy joint pain and ameliorate the progression of osteoarthritis in mice</i> Chair: Prof. Jian-Chyi Chen

17:00-17:30	<p>Oral Paul Dominick E. Baniqued <i>Title: Biomechanical Analysis of a 5-Degree-of-Freedom Upper Limb Exoskeleton Mechanism using Motion Capture</i></p> <p>Joseph Gabriel G. Villanueva <i>Title: A Low-cost 3D Filament Maker for Polyactic Acid (PLA) and Polyethylene Terephthalate (PET) Scrap Plastics: A Mechanical Concept Design using Catia</i></p> <p>Chair: Prof. S.-T. Peng</p>	<p>Oral Jhu-Jyun Yang <i>Title: Lossless Compression Methodology for Panoramic Film</i></p> <p>Jun-Lin Chen <i>Title: Driver's immediate physiological perception monitoring system</i></p> <p>Yue-Han Tsai <i>Title: GdOX Resistance Random Access Memory Thin Films</i></p> <p>Chair: Prof. Wei-Wen Hu</p>	<p>Oral Danica Mitch Pacis <i>Title: Current Researches and Trends in Miniaturization Techniques for Wearable Medical Monitoring Systems</i></p> <p>Chair: Prof. Hung-Chi Yang</p>	<p>Oral Wei-Hsun Lin <i>Title: Optimization and Application of Cobalt-based Dye Sensitized Solar Cells under Indoor Lighting Condition</i></p> <p>M. Matsumura <i>Title: Effect of graphene oxide nanofluid on heat pipe thermal performance</i></p> <p>Yu-Xin Yang <i>Title: Effects of bovine serum albumin on the Langmuir monolayer behavior of mixed dihexadecyl-chain ion pair amphiphile/hydrophilic additive systems</i></p> <p>Chair: Prof. Hong-Ru Lin</p>
17:30-18:00	<p>Oral Kohei Hamahata <i>Title: Promoted Boiling Heat Transfer on Vibrated Heating Surface</i></p> <p>Taiki Ishimoto <i>Title: Study On Electric Boiler by a Direct Sending of Electricity</i></p> <p>Chair: Prof. Chin-Tu Lu</p>	<p>Oral Yi-Tang Wang <i>Title: Design and implementation of VLC-based punch card machine</i></p> <p>Shiue-Ling Wu <i>Title: A Novel Method for Traffic Sign Detection and Recognition</i></p> <p>You-Xuan Zheng <i>Title: A High-Performance Kalman Filter FPGA Design for Location Tracking</i></p> <p>Chair: Prof. Wei-Wen Hu</p>	<p>Oral Ming-Min Liou <i>Title: A Multi-Approach Study on Circular Fringe of a Light Art with a Cylindrical Lightpipe</i></p> <p>Kai-Hsuan Li <i>Title: A Real-Time and Non-Contact Flowing Liquid Concentration Measurement</i></p> <p>Chair: Prof. Jeng-Feng Lin</p>	<p>Oral Chen-Ying Yang <i>Title: Fabrication of Vesicular Structures from a Fatty Acid Mixture</i></p> <p>Chao-Wei Lee <i>Title: Study on Catalyzed Transesterification Reaction of Soybean Oil and Waste Cooking Oil over Lithium Metasilicate</i></p> <p>Chair: Prof. Hong-Ru Lin</p>
18:30	Banquet (Premier Restaurant)			
October 20 (Friday)				
09:00-09:35	Keynote Lecture 3 (Room: E1301) Prof. Sato Mitsunobu <i>President of Kogakuin University, Professor of Department of applied physics, Kogakuin University, Japan.</i> <i>Title: Photovoltaic Lithium-Ion-Battery for Hydrogen Society</i> Chair: Prof. Shuichi Torii			
	Session A Room: E602	Session B Room: E604	Session C Room: E1305	Session D Room: E1301
09:40-10:05	<p>Invited Prof. Tomohiro Yamaguchi <i>Associate professor of Department of Applied Physics, Kogakuin University, Japan.</i> <i>Title: Outstanding capability of In-situ Monitoring Techniques in RF-MBE Growth of InN and GaInN</i></p> <p>Chair: Prof. Tung-Yung Huang</p>	Academic Exchange	<p>Invited Prof. Shoou-Jinn Chang <i>Chair Professor of Dept. of Electrical Engineering, National Cheng-Kung University, Taiwan.</i> <i>Title: Enhanced conversion efficiency for III-V multi-junction solar cells</i></p> <p>Chair: Prof. Ching-Ming Hsu</p>	<p>Invited Prof. Bing-Hung Chen <i>Department of Chemical Engineering, National Cheng Kung University, Taiwan.</i> <i>Title: Synthesis of Glycerol Oligomers from Etherification of Glycerol over γ-Alumina Supported Strontium Catalysts</i></p> <p>Chair: Prof. Ching-Feng Mao</p>
10:05-10:30	<p>Invited Prof. Hiroki Nagai <i>Assistant Professor of School of Advanced Engineering, Kogakuin University, Japan.</i> <i>Title: Fabrication of CNT/TITANIA Composite Thin Films on Quartz Glass Substrate by Molecular Precursor Method</i></p> <p>Chair: Prof. Cheng-Hsin Chuang</p>	Academic Exchange	<p>Invited Prof. Shih-Yen Lin <i>Research Fellow, Research Center for Applied Sciences, Academia Sinica, Taiwan.</i> <i>Title: The Preparation of Large-area Two-dimensional Materials and The Establishment of Their Hetero-structures for Device Applications</i></p> <p>Chair: Prof. Ching-Ming Hsu</p>	<p>Invited Prof. Takeshi Kawai <i>Department of Industrial Chemistry, Faculty of Engineering, Tokyo University of Science, Japan.</i> <i>Title: Transparent Conductive Ultrathin Films with High Flexibility Prepared by Irradiation with UV Light on Metal NPs Monolayer</i></p> <p>Chair: Prof. Mohd Hamdi Bin Abd Shukur</p>
10:30-10:45	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:45-11:10	<p>Invited Prof. Subongkoj Topaiboul <i>Professor of College of Integrated Science and Technology, Rajamangala University of Technology Lanna, Thailand.</i> <i>Title: Change of Texture and Chemical Properties of 'Kluai Hom Thong' Using Thai Local Leaves as Ripening Agent</i></p> <p>Chair: Prof. Ching-Hua Wei</p>	<p>Invited Prof. Jonathan Hoyin Chan <i>Professor of School of Information Technology, King Mongkut's University of Technology Thonburi, Bangkok, Thailand.</i> <i>Title: Smart Bedroom with Simple Gesture Control for the Ageing Society</i></p> <p>Chair: Prof. Shu-Chen Cheng</p>	<p>Invited Prof. Ahmad Tossin Alamsyah <i>Senior Lecturer of Department of Electrical Engineering, Politeknik Negeri Jakarta, Indonesia.</i> <i>Title: The Engineering of silicon sand to be the composite materials as a basic of gas sensor and other electronics component</i></p> <p>Chair: Prof. Jeng-Feng Lin</p>	<p>Invited Prof. Mohd Hamdi Bin Abd Shukur <i>Department of Mechanical Engineering Faculty of Engineering, University of Malaya, Malaysia.</i> <i>Title: Functional ceramic thin film developed via Physical Vapour Deposition systems</i></p> <p>Chair: Prof. Takeshi Kawai</p>
11:10-11:35	Academic Exchange	<p>Invited Prof. Pao-Ta Yu <i>Professor of Department of Computer Science and Information Engineering, National Chung Cheng University, Taiwan.</i> <i>Title: Deep Learning-Based Technology to Improve the Performance of Noise Classification and Image Restoration</i></p> <p>Chair: Prof. Shu-Chen Cheng</p>	Academic Exchange	<p>Invited Prof. Hui Suan Ng <i>Assistant Professor of Faculty of Applied Sciences, University College Sedaya International, Malaysia.</i> <i>Title: New approach on recovery of added-value compounds from fruit by-products</i></p> <p>Chair: Prof. Yasuhito Shimada</p>
11:40-12:15	Closing Ceremony (Room: E1301) Closing remark: Prof. Kun-Chung Li <i>The Vice President for Academic Affairs of Southern Taiwan University of Science and Technology, Taiwan</i>			
12:15-13:30	Lunch Break (Room: E1302 - E1303)			
14:00-17:30	Excursion (Chimei Museum)			