

2016 International Symposium on Novel and Sustainable Technology



Southern Taiwan University of Science and Technology



Ministry of Education, Republic of China (Taiwan)
Tainan City Government

2016-ISNST Symposium Program

(E-13 Nien-Tzu International Conference Hall)

	(E	-13 Nien-Tzu International	Conference Hall)					
		October 6 (Thurs						
08:00-09:00	Registration (E-13 Lobby)							
		Opening (Ceremony					
09:00-09:30	(Room: E1301) Opening remark: Prof. Chein Tai, Chairman of Congress, The President of Southern Taiwan University of Science and Technology, Taiwan Keynote Lecture 1 (Room: E1301)							
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		Prof. Ben Wang	·					
09:30-10:30	The Gwaltney Chair in Manufacturing	g Systems in the School of Industrial and	d Systems Engineering & Professor of Ma	aterials Science and				
07.30-10.55		Engineering, Georgia Tec						
		Title: The future of manu Chair- Prof. Nai-Shan	· · · · · · · · · · · · · · · · · · ·					
10:30-11:00		Coffee Break	g Llou		Poster Presentation 1			
10.00		Keynote Lecture 2 (Room: E1301)						
		Prof. RNDr. Ladislav l	Kavan		(Session B & D) (E-13 Lobby)			
11:00 -12:00	Head of Department of Electrochemical Materials, J. Heyrovský Institute of Physical Chemistry, the Czech Academy of Sciences, Czech Republic.							
	Title : Nanomaterials ba	• •	Electrochemical Energy Conversion and S	torage				
		Chair- Prof. Nai-Shang Liou						
11:50-13:30		Lunch Break (Room: E1302 \ E13	003)					
		· · · · · · · · · · · · · · · · · · ·	on 2 (Session A & C)		1			
13:30–14:30	1		Lobby)					
	Session A Chair-Prof. Wei-Chin Chang	Session B Chair-Prof. Shu-Chen Cheng	Session C Chair-Prof. Chi-Jo Wang	Sessior Chair- Prof. Chei Chair- Prof. Chin	ng-Ho Chen			
	Room: E1305	Room: E604	Room: E602	Room: E1	1301			
14:30-15:00	Invited Prof. Shuichi Torii Professor of Department of Mechanical System Engineering, Kumamoto	Invited Prof.Yo-Ping Huang Professor of Department of Electrical Engineering, National Taipei University	Invited Prof. Numyoot Songthanapitak President of Rajamangala University of Technology Lanna, Thailand.	Engineering, National Taiwan				
	University, Japan. Title: Thermal Wave Propagation Phenomenon in Very Thin Film	of Technology, Taiwan Title: Applications and Perspective of IoT-based Healthcare Systems	Title: RMUTL'S Industrial Cooperation With Education In Thailand Chair-Prof. Chi-Jo Wang	University, Title: Energy-Saving I Extraction-Distillation Azeotropic Se	Design of Hybrid ion System for			
15:00-15:30	Invited Prof. Hadi Sutanto Dean of School of Engineering, Atma Jaya Catholic University Title: Nanotechnology Development in Indonesia: An Overview	Invited Prof. Hiroyuki Tarumi Professor of Department of Electronics and Information Engineering, Kagawa University, Japan. Title: Supports for Remote Informal Communication and its Application for Music Performances	Invited Prof. Toshimitsu Morizane Professor of Department of Electrical and Electronic Systems, Osaka Institute of Technology, Japan. Title: Disc-Shaped Lim For Levitation And Traction Force Control Powered By Source Using Component Synchronous With Motor Speed Chair-Prof. Ming-Shyan Wang	Invite Prof. Tomohir Professor of Departn Chemistry, Tokushii Japan Title: Stereoregu Alkylacrylamide) Polymerization and A	ro Hirano ment of Applied ma University, n. ular Poly(N- OS – Radical Aqueous Phase			
15:30-16:00	Invited Prof. Akira Ueno Collage of Science and Engineering, Department of Mechanical Engineering, Ritsumeikan University Title: Introduction of Research Center for Energy-Innovation Materials and Fuel-Cell Systems in Ritsumeikan University	Coffee Break	Invited Prof. Tatsuo Mori Professot of Department of Electrical Engineering, Aichi Institute of Technology, Japan. Title: Air-Flow-Combined 2-Step Fabrication Process for Organic Perovskite Solar Cells Chair-Prof. Ching-Ming Hsu	Invited Prof. Hiroharu Ajiro Professor of Institute for Resear Initiatives, Graduate School of Materials Science, Nara Institute Science and Technology, Japan Title: Molecular Technology for Functionalized Polymer Biomaterials Using Poly(Trimethy) Carbonate) and Polylactides				
16:00-16:30	Coffee Break	Oral Prof. Shu-Chen Cheng Title: Assessment of the Difficulty of	Coffee Break	Coffee Br	reak			
Departme of Advar 16:30-17:00 Title: No Thin F Substrat	Invited Prof. Hiroki Nagai Department of Applied Physics, School of Advanced Engineering, Kogakuin University Title: Novel Route to Cuprous Oxide Thin Films Fabrication on Glass Substrate Using Molecular Precursor Method Chair-Prof. Shuichi Torii	Itle: Assessment of the Difficulty of Items in Computer Adaptive Learning Platform for Calculus Prof. Yi-Zeng Hsieh Title: Design of Mobile-Aided system for ADHD Children Chih-Hao Chang Title: A PROPOSAL FOR REINFORCED PUBLIC E-SERVICE MARKETING MODEL Prof. Yu-Lin Jeng Title: INFORMATION PARSING SYSTEM FOR POPULAR AND FORWARD-	Oral Tajuddin Nur Chair-Prof. Jeen-Min Ling Southern Taiwan University of Science and Technology Title: Study The Effect Of Magnet Edge Slotting Of Fractional Structure To Reduce Cogging In Inset-Permanent Magnet Synchronous Generator	Oral Dr. Kuan-Ti Technology Research Department, Plast Development Cent Title: A Cost-Effective Recyclable Photocata ZnFe2O4, As A Book Photocatalyst for Fento	ing Lee h Development itics Industry ter, Taichung e, Magnetically alyst, Pt Coupled reakthrough			
		LOOKING TREND ANALYTIC						

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17:00-17:30	Invited Prof. Tomhiro Yamaguchi Department of Applied Physics, Kogakuin University, Japan Title: Study on Mist CVD Growth of IN2O3	Academic exchange	Oral Ilham Ari Elbaith Zaeni Chair-Prof. Shih-Chung Chen Southern Taiwan University Of Science And Technology Title: A SSVEP Based BCI On Mobile Robot Using Magnitude Squared Coherence And Fuzzy Tracking Algorithm Yu-Te Huang Southern Taiwan University Of Science And Technology Title: Visual Servo Tracking Control By Camshift	Oral Dr. Shanmuganathan Venkatesan National Cheng Kung University Title: Effects of Nanofillers on the Performance of Gel-State Dye- Sensitized Solar Cells
17:30-18:00	Oral Dedy Ramdhani Southern Taiwan University of Science and Technology Title: Mechanical Simulation and Experimental of Stamping Metallic Bipolar Plates in Proton Exchange Membrane Fuel Cell (PEMFC) Ran Fukami Kumamoto University Title: Extraction from Citrus Using Under water Shock Wave	Academic exchange	Oral Hemin I. Azeez Chair-Prof. Hung-Chi Yang Southern Taiwan University Of Science And Technology Title: Wearable Multi-Band Dipole Textile Antenna Nana Sutarna Southern Taiwan University Of Science And Technology Title: Equivalence Between Fuzzy PID Controllers And Conventional PID Controllers	Prof. Chang-Ning Huang Southern Taiwan University of Science and Technology Title: Zinc Blende and Wurtzite
18:30		(Premier R	nquet Restaurant)	
	Session A	October 7 (Frida	Session C	Session D
	Chair-Prof. Yi-Chu Hsu	Chair-Prof. Da-Huei Lee	Chair - Prof. Ming-Shyan Wang	Chair-Prof. Jian-Chyi Chen
09:00-09:30	Room: E1305 Oral Martinez A. Daniela Southern Taiwan University of Science and Technology Title: Ethanol Green Chain in Fuel Cells Technology T. Hiraoka Kumamoto University Title: Explosive Compaction of Al-SiC Composites Assisted with Thermite Reaction	Invited Prof. Takeshi Fukusako Professor of Department of Computer Science & Electrical Engineering, Kumamoto University, Japan. Title: Broadband circularly polarized antenna technologies and their applications.	Invited Prof. Indrazno Siradjuddin Professor of Department of Electrical Engineering Department, Malang State Polytechnic, Indonesia. Title: One-Shot Learning Algorithm For Imitating Primitive Movements Of A Robot Actuator Chair-Prof. Ming-Shyan Wang	Injuersity Taiwan
09:30-10:00	Oral Ouoc Thien Pham Southern Taiwan University of Science and Technology Title: Development of Loading System for Measuring Texture Profile Parameters of Fruit Flesh Shota Matsumoto Kumamoto University Title: Study on Combustor and Heat Exchanger Using Waste Biomass Fuel	Title: DESIGN OF EIGHT-ELEMENT MIMO ANTENNAS FOR NEXT GENERATION MOBILE COMMUNICATION SYSTEMS Bo-Kai Zhang Title: Design and Implementation of Digital Exam System	Oral Agan Agary Chair-Prof. Lian-Jou Tsai Southern Taiwan University Of Science And Technology Title: Design Of Flexible And Intelligent Li-Ion Battery Management System For Electric Bicycle Chia-Chuan Kuo Southern Taiwan University Of Science And Technology Title: Communication Method And Apparatus Using Dc Power Feed Sheng-Ting Huang Southern Taiwan University Of Science And Technology Title: Wireless Pseudo-Stereo Electronic Stethoscope	Invited Prof. I-Son Ng Professor of Department of Chemical Engineering, National Cheng Kung University, Taiwan. Title: Functional Genes and Proteome Exploring from Extracellular Electron Transport (EET) Microbe: Shewanella Species
10:00-10:20	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:20-10:50	Oral Ramli Southern Taiwan University of Science and Technology Title: Effects of Nanoscale Precipitation on the Material Property of the 7003 Aluminum Alloy Yomei Hirata Kumamoto University Title: Development of the Pipe Velocity Measurement Method Combine with X-ray and PIV	Oral Rong-Da Lin Title: PIFA-TYPE WLAN MIMO ANTENNAS FOR USB DONGLE APPLICATIONS Hao-xuan Wang Title: DETECTION OF ENDO SYMPTOM BY USING IMAGE PROCESSING TECHNOLOGY IN PANORAMIC X-RAY FILM	Oral You-Cheng Chang Chair - Prof. Hsyi-En Cheng Southern Taiwan University of Science and Technology Title: Fabrication of ZnO/MgO Distributed Bragg Reflector	Invited Prof. Yu-Shen Cheng Professor of Department of Chemical and Materials Engineering, National Yunlin University of Science and Technology, Taiwan. Title: Developing Biological Systems for Biorefinery of Ulva Lactuca

10:50-11:20	Oral Wei-Chin Chen Southern Taiwan University of Science and Technology Title: The observations and analyses of Anodizing Treatment on the surface defect in 7XXX Aluminum Alloys Shinichi Miyauchi Kumamoto University Title: The Effects of Center Body, Rotor -tip Interval and Propeller Profile on the Aerodynamic Characteristics of Micro Quad-rotor	Academic exchange	Oral Chih-Yin Chiang Chair - Prof. Hsyi-En Cheng Southern Taiwan University of Science and Technology Title: Simulation of Light Extraction Efficiency of Bulk-Gan Based Flip-Chip LEDs	Invited Prof. Chi-Wei Lan Professor of Chemical Engineering & Materials Science, Yuan Ze University, Taiwan. Title: Improvement of Polyhydroxyalkonates Production by Recombinant Ralstonia Eutropha from Waste Feestocks			
11:20-12:00	Vice Presid	(Room Closing remark: Pr	Ceremony : E1301) of. Lee Kuen-Chorng rn Taiwan University of Science and 1	- echnology			
	Chair- Prof. Nai-Shang Liou						
12:00-13:30	Lunch Break						
14:00-17:30			ursion Museum)				

Congratulatory Speech from President of STUST

October 06,2016

Distinguished guests, honorable scholars and professors, Ladies and Gentlemen, good morning:

First of all, on behalf of Southern Taiwan University of Science and Technology (STUST), I would like to express our warmest welcome for your participation in the "2016 International Symposium on Novel and Sustainable Technology (2016 ISNST)", and thank those who contribute to the success of this conference by sharing your professional competence and valued experience.

This is the fourteen year we hold this international conference. With our consistence, this conference has been made known to the academic public, and encouragingly more than two hundred will be presented this year. I would like to express my deep appreciation to twenty outstanding professors to give remarkable speeches. On this day, through the brainstorming, interactions, and discussions among the scholars and experts, we believe this conference will be successful and provide you more ideas.

Finally, I again deeply appreciate all the participants for your support and contribution to this conference. I would also like to express my sincere wishes for the success of the conference, and for your findings of new opportunities in the ever-growing realm of mechanical technology, electrical and computer engineering technology, chemical technology, and opto technology. Many thanks again for your coming~

Sincerely yours,

Chein Tai

President of Southern Taiwan University of Science and Technology

2016/10/06

2016 International Symposium on Novel and Sustainable Technology

Keynote Lecture

	October 6 (Thursday)					
			Venue : E1301			
Time	ID	Speaker	Title	Page		
09:30-10:30	K-01	Prof. Ben Wang	The Future of Manufacturing – My Perspective Georgia Institute of Technology, USA	K-01		
10:50- 11:50	K-02	Prof. RNDr. Ladislav Kavan	Nanomaterials Based on Ti(IV) Oxides: Applications for Electrochemical Energy Conversion and Storage The Czech Academy of Sciences, Czech	K-02		

Session A: Invited Lecture

October 6 (Thursday) **Venue** : E1305 ID Speaker Title Time Page Thermal Wave Propagation Phenomenon in Very Prof. Shuichi 14:30 -15:00 I-01 Thin Film I-01 Torii Kumamoto University, Japan Nanotechnology Development in Indonesia: An Prof. Hadi 15:00 -15:30 I-02 Overview I-02 **Sutanto** Atma Jaya Catholic University, Indonesia **Introduction of Research Center for** Prof. Akira **Energy-Innovation Materials and Fuel-Cell** 15:30 -16:00 I-03 I-06 Ueno Systems in Ritsumeikan University Ritsumeikan University, Japan **Novel Route to Cuprous Oxide Thin Films** Prof. Hiroki Fabrication on Glass Substrate Using Molecular 16:30 -17:00 I-04 I-07 Nagai **Precursor Method** Kogakuin University, Japan Prof. Study on Mist CVD Growth of In₂O₃ 17:00 -17:30 I-05 **Tomohiro** I-08 Kogakuin University, Japan

Yamaguchi

Session B: Invited Lecture

	October 6 (Thursday)					
			Venue: E604			
Time	ID	Speaker	Title	Page		
14:30 –15:00	I-06	Prof.Yo-Ping Huang	Applications and Perspective of IoT-based Healthcare Systems National Taipei University of Technology, Taiwan	I-10		
15:00 –15:30	I-07	Prof. Hiroyuki Tarumi	Supports for Remote Informal Communication and its Application for Music Performances Kagawa University, Japan	I-11		

	October 7 (Friday)					
	Venue : E604					
Time	ID	Speaker	Title	Page		
9:00 –9:30	I-08	Prof. Takeshi Fukusako	Development of Wideband Circularly Polarized Antennas Kumamoto University, Japan	I-12		

Session C: Invited Lecture

	October 6 (Thursday)				
			Venue : E602	1	
Time	ID	Speaker	Title	Page	
14:30 –15:00	I-09	Prof. Numyoot Songthanapitak	RMUTL's Industrial Cooperation with Education in Thailand Rajamangala University of Technology Lanna, Thailand	I-13	
15:00 –15:30	I-10	Prof. Toshimitsu Morizane	Disc-shaped LIM for Levitation and Traction Force Control Powered by Source Using Component Synchronous with Motor Speed Osaka Institute of Technology, Japan	I-14	
15:30 -16:00	I-11	Prof. Tatsuo Mori	Air-Flow-Combined 2-Step Fabrication Process for Organic Perovskite Solar Cells Aichi Institute of Technology, Japan	I-15	

	October 7 (Friday)					
			Venue : E602			
Time	ID	Speaker	Title	Page		
9:00 -9:30	I-12	Prof. Indrazno Siradjuddin	One-shot Learning Algorithm for Imitating Primitive Movements of a Robot Actuator Malang State Polytechnic, Indonesia	I-17		

Session D: Invited Lecture

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Time	ID	Speaker	Title	Page		
14:30 –15:00	I-13	Prof. I-Lung Chien	Energy-Saving Design of Hybrid Extraction-Distillation System for Azeotropic Separation National Taiwan University, Taiwan	I-21		
15:00 –15:30	I-14	Prof. Tomohiro Hirano	Stereoregular Poly(N-Alkylacrylamide)S – Radical Polymerization and Aqueous Phase Transition Behavior Tokushima University, Japan	I-22		
15:30 –16:00	I-15	Prof. Hiroharu Ajiro	Molecular Technology for Functionalized Polymer Nara Institute of Science and Technology, Japan	I-24		

	October 7 (Friday) Venue : E1301				
Time	ID	Speaker	Title	Page	
9:00 -9:30	I-16	Prof. Wen-Chien Lee	Functional inclusion bodies in recombinant Escherichia coli as biocatalysts National Chung Cheng University, Taiwan	I-26	
9:30 –10:00	I-17	Prof. I-Son Ng	Functional Genes and Proteome Exploring from Extracellular Electron Transport (EET) Microbe: Shewanella Species National Cheng Kung University, Taiwan	I-27	
10:20 -10:50	I-18	Prof. Yu-Shen Cheng	Developing Biological Systems for Biorefinery of Ulva Lactuca National Yunlin University of Science and Technology, Taiwan	I-28	
10:50 –11:20	I-19	Prof. Chi-Wei Lan	Improvement of Polyhydroxyalkonates Production by Recombinant Ralstonia Eutropha from Waste Feestocks Yuan Ze University, Taiwan	I-29	

Session A: Advanced Manufacturing Science and

Technology

Oral Session

	October 6 (Thursday)						
	Venue: E1305						
Time	ID	Authors	Title and Affiliation	Page			
17:30-17:45	A-O-001	<u>Dedy Ramdhani,</u> Wei-Chin Chang, Yu-Chu Li	Mechanical Simulation and Experimental of Stamping Metallic Bipolar Plates in Proton Exchange Membrane Fuel Cell (PEMFC) Southern Taiwan University of Science and Technology	A-01			
17:45-17:60	A-O-002	Ran Fukami, Shigeru Tanaka, Yoshie Tsujikawa, Kazuyuki Hokamoto, Atsushi Yasuda, Shigeru Itoh	Extraction from Citrus Using Under water Shock Wave Kumamoto University	A-03			

	October 7 (Friday)						
	Venue : E1305						
Time	ID	Authors	Title and Affiliation	Page			
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		Chang	Southern Taiwan University of Science and Technology				
9:15-9:30	A-O-004	T. Hiraoka, T. Yamamoto, K. Oka, K. Hokamoto	Explosive Compaction of Al-SiC Composites Assisted with Thermite Reaction	A-06			
			Kumamoto University				

9:30-9:45	A-O-005	Quoc Thien Pham,	Development of Loading System for	A-07
		Xin-Jia Huang,	Measuring Texture Profile Parameters of	
		Nai-Shang Liou	Fruit Flesh	
			Southern Taiwan University of Science and	
			Technology	
9:45-10:00	A-O-006	Shota Matsumoto,	Study on Combustor and Heat Exchanger	A-09
		Shuichi Torii	Using Waste Biomass Fuel	
			Kumamoto University	
10:20-10:35	A-O-007	Ramli, C.C. Wu,	Effects of Nanoscale Precipitation on the	A-11
		Wei-Chih Chen,	Material Property of the 7003 Aluminum	
		Ya-Hsiu Hung	Alloy	
			Southern Taiwan University of Science and	
			Technology	
10:35-10:50	A-O-008	Yomei Hirata,	Development of the Pipe Velocity	A-13
		Shuichi Torii	Measurement Method Combine with X-ray	
			and PIV	
			Kumamoto University	
10:50-11:05	A-O-009	C. C. Wu,	Effects of Secondary Aging Treatment on	A-15
		Wei-Chih Chen,	the Microstructure and Hardness of the	
		Ya-Hsiu Hung	7003 Aluminum Alloy	
			Southern Taiwan University of Science and	
			Technology	
11:05-11:20	A-O-010	Shinichi Miyauchi,	The Effects of Center Body, Rotor-tip	A-16
		Shohei Mitsuzaki,	Interval and Propeller Profile on the	-
		Mizue Munekata,	Aerodynamic Characteristics of Micro	
		Hiroyuki	Quad-rotor	
		Yoshikawa	Kumamoto University	

October 6 (Thursday)					
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A-P-01	Chia-Chin Chang,	under Different Temperature	A-18		

	Lung-Hao Hu	Southern Taiwan University of Science and Technology	
A-P-02	I-Chih Wu, Min-Haw Wang, Ling-Sheng Jang, Yi-Chu Hsu	Novel methods for defect localization of WLCSP after board level reliability tests National Cheng Kung University	A-20
A-P-03	Po-Chia Huang, Jow-Lay Huang, Sheng-Chang Wang, Muhammad Omar Shaikh	SNS and SNS2 Nanocrystals as Effective Electrocatalysts for the Hydrogen Evolution Reaction National Cheng Kung University	A-25
A-P-04	Chia-Yuan Chou, Sin-Wei Wu, Keh-moh Lin	Fabrication and characterization of ITO/AgNW/ITO and ZnO/AgNW/ZnO hybrid transparent electrodes Southern Taiwan University of Science and Technology	A-27
A-P-05	Yung-Chuan Kang, Sin-Bo Wang, Keh-moh Lin	Design and implementation of optical inspection system for curved lens Southern Taiwan University of Science and Technology	A-29
A-P-06	F. Kino, H. Oda, S. Tanaka, K. Hokamoto	Synthesis of Titanium Carbide in Liquid Paraffin through Metal Wire Explosion Kumamoto University	A-31
A-P-07	T. Yamashita, S. Otsuka, D. Inao, S. Tanaka, K. Hokamoto	Underwater Explosive Welding of Thin Stainless Steel on Copper Plate Kumamoto University	A-32
A-P-08	Chia-Ling Wu, Po-Chia Huang, Sanjaya Brahma, Jow-Lay Huang, Sheng-Chang Wang	One-Step Hot-Injection Method to Synthesize MoS ₂ @MoO ₂ Composite Electrocatalysts for Hydrogen Evolution Reaction National Cheng Kung University	A-33
A-P-09	H. Ikeda, Y. Kunita, K. Shimomiya, M. Oshita, K. Hokamoto	Fabrication of Unidirectional Porous Metal through Explosive Compaction Using Modified Cylindrical Geometry Kumamoto University	A-34
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		A Study in The Discussion of The effect of In-Mold		
	Heinn Jub Trans	Decoration Process for Shear Stress through Mold		
A-P-11	Hsinn-Jyh Tzeng,	Flow Analysis	A-37	
	Po-Chin Huang	Southern Taiwan University of Science and		
		Technology		
		Development and Application of Optical		
	Hsin-Hung Cheng	Nano/Micro-		
A-P-12	, Ya-Jung Wu, and	Scale Sensors with Strong Enhancements on the	A-38	
	Chiao-Sheng Lin	Aflatoxin in Food		
		Taipei College of Maritime Technology		
		The Study of Using Mold Flow Analysis to		
	Hsinn-Jyh Tzeng	Investigate The Effect of Temperature for In-Mold		
A-P-13	, Jen-Chou Hsiung	Decoration Process	A-40	
	,Cheng-Lung Lee	Southern Taiwan University of Science and		
		Technology		
	V W Huang and	Soft Mask Based on Embedded Color Resists with		
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	1C. Lee	National Cheng Kung University		
		Stationary Bike with Continuously Variable	A-43	
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A-F-13	and Y.H. Wang	Southern Taiwan University of Science and		
		Technology		
		The Influence of Recast Layer on Tool Steel Under		
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A-F-10	and G.Y. Chen	Southern Taiwan University of Science and	A-44	
		Technology		
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A-P-17	Tzu-Yao Tai, Shun-Wei Huang,	Working Step During EDM Process	A-45	
A-F-1/	Guan-Yu Chen	Southern Taiwan University of Science and	A-43	
	Guaii- Tu Chen	Technology		
	Shou Tao Dana	An Application of Visual Servoing Control to The		
A-P-18	Shou-Tao Peng, Sheng-Sing Chen,	Contour Trace of An Object Image	A-46	
∆-1-10	Zih-Kai Lin	Southern Taiwan University of Science and		
	Zill-Kai Lill	Technology		
	Jui-Hung Liu,	Typhoon Wind Analysis to The Wind Turbines in		
A-P-19	Jien-Chen Chen	Taiwan	A-48	
	Jien-Chen Chen	Southern Taiwan University of Science and		

		Technology	
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A-P-21	Yu-Chu M. Li, Chao-Ming Huang, Kai-Jan Lin, Hong-Siang Du, Chun-Yu Yang	Application of Supercapacitor to Assist Electric Tricycle Southern Taiwan University of Science and Technology	A-51
A-P-22	Sheng-Ping Luo, Jun-Ting Guo, Nai-Shang Liou	Investigatin The Mechanical Properties of Asia Pear by Indentation Test Southern Taiwan University of Science and Technology	A-53
A-P-23	<u>Da-Wei Yang,</u> Jia-Ling Syu, Nai-Shang Liou	Investigating The Deformation of Load Cell of a Texture Profile Analyzer by Using Finite Element Method Southern Taiwan University of Science and Technology	A-55
A-P-24	Yi-Jhang Yang, Bing-Shen Dung, Nai-Shang Liou	Development of a Drop Test Facility for the Study of Fruit Flesh Under Impact Load Southern Taiwan University of Science and Technology	A-57
A-P-25	Chia-Hsiang Su, Cheng-Wei Wu, Min-Hon He	Application of reverse engineering technology to shorten the product development cycle Southern Taiwan University of Science and Technology	A-59
A-P-26	Chih-Liang Chu, Hung-Chi Chen, Ming-Han Sie	5-Dof Nano-Positioning Stage With Error Compensation System Southern Taiwan University of Science and Technology	A-61
A-P-27	ZH. He, YH. Chen, CC. Kao	Automatic RFID Transportation System Southern Taiwan University of Science and Technology	A-63
A-P-28	C. Hsu, S. Tsai, U. Peng, W. Wu	Enahnced Mechanical Properties of Flexible Ito Film Using Surface Recess Architechers Southern Taiwan University of Science and Technology	A-65

A-P-29	<u>Taiki Ishimoto,</u> Shuichi Torii	Study on High-Efficiency Electric Boiler by a Direct Sending of Electricity	A-67
A-P-30	Masatoshi Matsumura, Shuichi Torii	Kumamoto University Study on Thermal Characteristics of Graphene Oxide Nanofluid Kumamoto University	A-68
A-P-31	Shoko Urakami, Shuichi Torii	Studies on Char Combustion Transmission Characteristics by Air Negative Ions Atmosphere Kumamoto University	A-69
A-P-32	Chun-Cheng Chen, Ching-Hua Wei, Wu-Chung Sue	A Study of Acidic Etching with Pretreatment of Mechanical Lapping and Sandblast Applied on The Texturization of Multicrystalline Silicon Southern Taiwan University of Science and Technology	A-70
A-P-33	Takaomi Utatsu, Mizue Munekata, Hiroyuki Yoshikawa, Yasuhiro Okumura	Characteristics of Boundary Layer Flow Over a High Speed Rotating Disk Under Orbital Motion Kumamoto University	A-71
A-P-34	Takamasa Kinoshita, Hiroyuki Yoshikawa, Mizue Munekata	Numerical simulation of flowing liquid film over rotating disk Kumamoto University	A-72
A-P-35	Ryota Shimasaki, Satoshi Kataoka, Wataru Tobo, Mizue Munekata, Hiroyuki Yoshikawa	Effects on aerodynamic characteristics of a hovering micro quad-rotor near the transverse side walls Kumamoto University	A-73
A-P-36	<u>Fei-Hung Tsai</u>	Study and Analysis of ITO Films under Different Ar Flow by RF Magnetron Sputtering Southern Taiwan University of Science and Technology	A-74
A-P-37	Shinq-Jen Wu and Wei-Yong Chen	HFPN-BASED MULTI-STREAM GROWTH-SIGNAL-TRANSDUCTION PREDICTION Department of Electrical Engineering, Da-Yeh University	A-75

Session B: Intelligent System & Electronics

Oral Session

October 6 (Thursday) Venue: E604 Time **Title and Affiliation** ID **Authors** Page 16:00-16:30 **B-O-001** Shu-Chen Cheng and Assessment of the Difficulty of Items in Computer **B-01** Adaptive Learning Platform for Calculus Shing-Lin Chang Yi-Zeng Hsieh Design of Mobile-Aided system for ADHD Children **B-O-002 B-03** Chih-Hao Chang and 16:30-17:00 **B-O-003** A PROPOSAL FOR REINFORCED PUBLIC **B-04** Yu-Lin Jeng E-SERVICE MARKETING MODEL **B-O-004** Yu-Lin Jeng and INFORMATION PARSING SYSTEM FOR **B-06** Yi-Zeng Hsieh POPULAR AND FORWARD-LOOKING TREND **ANALYTIC**

October 7 (Friday)					
Venue : E604					
Time	ID	Authors	Title and Affiliation	Page	
09:30-10:00	B-O-005	Wei-Wen Hu, Da-Huei	Design and Implementation of Digital Exam	B-08	
		Lee, Yu-	System		
		Xian Qiu, Fu-Liang			
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