		Room A	(6F-Li)
31th October (Sat.)	Oral Session 1 9:00 12:00	A1. F. Computer & Information Engineering SL. Intelligent Automation and Smart Systems SU. Advances in Information Analysis Techniques Chung-Chi Huang, Far East University, Session Chair Kuan-Chen Lin, Far East University, Session Chair	
		A1-1 9:00	A1-9 11:00
		SL5002- Intelligent Diagnosis and Prescription for Customized Physical Fitness and Healthcare System	F5005- Extracting Retrospective Patternsfrom Time-Stamped Texts According to Variable Query Time Interval
		Chung-Chi Huang, Hsiao-Man Liu, Chung-Lin Huang, Cong-Hui Huang, and Yen-Ting Ke	Jing-Doo Wang, Heri Wijayanto
		A1-2 9:15	A1-10 11:15
		SL5003- Intelligent Scheduling of Execution for Customized Physical Fitness and Healthcare System	F5012- A Neural-based Skyline Identifier for Finding Similar Users in Social Networks Yu-Ting Sun, Chun-Jhong Wang, Yi-Chung Chen,
		Chung-Chi Huang, Hsiao-Man Liu, Chung-Lin Huang, Cong-Hui Huang, and Yen-Ting Ke	Yu-Liang Hsu, Heng-Yi Su
		A1-3 9:30	A1-11 11:30
		SL5004- Fool-Proofing Design and Crisis Management for Customized Intelligent Physical Fitness and Healthcare System	F5014- Tracking Driver's Face Fast and Reliably for Detecting His Drowsiness In-Ho Choi, Chan-Hee Jeong, Yong-Guk Kim
		Chung-Chi Huang, Hsiao-Man Liu, Chung-Lin Huang, Cong-Hui Huang, and Yen-Ting Ke	
		A1-4 9:45	A1-12 11:45
		SL5005- Intelligent Diagnosis and Maintenance System for Maximum Performance of Power Generation with Solar Energy	SU5002- Data Processing and Economic Analysis of NTA: An Introduction Kevin Y. Hsieh, Jay S. Lin, An-Chi Tung
		Chung-Chi Huang, Cong-Hui Huang, Kuan-Chen Lin, Sheng-Feng Yang, and Cheng-Chi Tsai	Revin 1. Histor, vay 5. Lui, 111 Chi Tung
		A1-5 10:00	
		SL5006- Cloud-Dust Based Intelligent Tracking System for Components Analysis	
		Chung-Chi Huang, Kuan-Chen Lin, Chung-Lin Huang, Chi-Ao Hsieh, and Jun-Jie Liu	
		A1-6 10:15	
		SL5007- Design and Implementation of Intelligent Dust System for Cloud-Dust Based Intelligent Manufacturing System	
		Chung-Chi Huang, Chung-Lin Huang, Cong-Hui Huang, Kuan-Chen Lin, and Sheng-Sian Tang	
		A1-7 10:30	
		SL5008- Development of Improved Customer Satisfaction Based Intelligent Decision Support System for Travelling Management	
		Chung-Lin Huang, Chung-Chi Huang	
		A1-8 10:45	
		F5003- Memory Allocation and Computations for Laplace's Equation of 3-D Arbitrary Boundaries <i>Tswn-Syau Tsay, Shen-Haw Ju</i>	

		Room B (6F-	· Boardroom)
31th October (Sat.)	Oral Session 1 9:00	B1. C. Electrical & Electronic Engineering SP. Recent Advances in Information	
	12:00	Jeong-Dong Kim, Korea University, Session Chair Yun-Parn Lee, Ming Chuan University, Session Chair	r
		B1-1 9:00	B1-9 11:00
			SP5002- Collaborative Learning System Using SNS-based Social Feedback Jiseong Son, Jeong-Dong Kim, Hong-Seok Na, Doo-Kwon Baik
		B1-2 9:15	B1-10 11:15
		C5007- Research on the Air-core Reactor Integrated in Transformer Longfu Luo, Jinwen Xiang, Chonggan Liang,	SP5003- CA5W1HOnto-based Life Data Analysis and Monitoring for Personalized Healthcare Service
		Wendi Liao	Jeong-Dong Kim, Hong-Seok Na, Suk-Hyung Hwang, Doo-Kwon Baik
		B1-3 9:30	B1-11 11:30
		C5009- A Study of the Effects of Insulation Methods to the Square Electrodes for Micro Machining Shape on Shape Memory Alloy in Electrochemical Machining Seung-Geon Choi, Kwang-Ho Chun, Eun-Sang Lee	
		B1-4 9:45	B1-12 11:45
		C5011- Permanent Magnet Synchronous Motor	
		Chiu-Keng Lai and Kuo-Hsuan Hsu	
		B1-5 10:00	
		C5016- A Novel Rail-to-Rail Operational Amplifier with Low Output Resistance <i>Shu-Hang Zhang, Yu-Cheng Feng, Miin-Shyue Shiau,</i> <i>Qi-Ming Wan, Don-Gey Liu</i>	
		P1 / 10.17	
		B1-6 10:15 C5018- A Variable Step-size Algorithm for Active Noise Control of Distributed Networks Ju-Man Song, Poo-Gyeon Park	
		B1-7 10:30	
		C5019- Optimal Location and Sizing of DG in the Island-Scale Distribution System for Loss Reduction Cheng-Ting Hsu, Roman Korimara, Tsun-Jen Cheng	
		B1-8 10:45	
		SP5001- Dynamic Access Control Model for Privacy Preserving Personalized Healthcare in Cloud Environment Jiseong Son, Jeong-Dong Kim, Hong-Seok Na, Doo-Kwon Baik	
		Duo-κωυπ Duik	

		Room C (7F	- Confucious)
31th	Oral	C1.	
October	Session 1	SN. Recent Advances in Bioinformatics and Bio-inst	truments
(Sat.)	9:00	O. Other Engineering and Technology Related Topi	cs
	12:00	Jason Shian-Ching Jang, National Central University Mun-Ho Ryu, Chonbuk National University, Session	
		C1-1 9:00	C1-9 11:00
		SN5004- Hyperparameter Tuning for Hidden Unit	SN5012- Fluorescence Analysis for Black Printed
		Conditional Random Fields	Circuit Board Based Micro-Polymerase Chain
		Eun-Suk Yang, Chan-Young Park, Jong-Dae Kim, Hey Jeong Song, Yu-Seop Kim	Reaction Chip Ji-Soo Hwang, Jong-Dae Kim, Yu-Seop Kim,
		They seeing song, Tu-seep Kim	Hye-Jeong Song, Doohee Jeong and Chan-Young Park
		C1-2 9:15	C1-10 11:15
		SN5005- Korean Semantic Role Labeling using	SN5013- Temperature Sensors for Biochips based
		Korean PropBank Frame Files	on Resistance Temperature Detectors on PCB
		Miran Seok, Chan-Young Park, Jong-Dae Kim, Hye-Jeong Song, Yu-Seop Kim	Sang-Yoon Kim, Jong-Dae Kim, Yu-Seop Kim, Hye-Jeong Song, Sihn Ae Lee, Chan-Young Park
		C1-3 9:30	C1-11 11:30
		SN5006- Automatic Semantic Role Conversion based on Word Similarity and Statistics	SN5015- Biocompatibility Study of Ni-free Zr-base and Ti-base Metallic Glasses
		Young-Shin Youn, Min-Jeong Seo, Chan-Young Park,	Jason Shian-Ching Jang, Pei-Hua Tsai, Tsung Heiung Li and Kai Ti Heu
		Jong-Dae Kim, Hye-Jeong Song, Yu-Seop Kim	Tsung-Hsiung Li and Kai-Ti Hsu
		C1-4 9:45	C1-12 11:45
		SN5007- Pipetting Monitoring by Image Processing	
		in Automated Laboratory Analyzer	Life Style Board
		Jun Yeon, Hye-Jeong Song, Chan-Young Park, Yu-Seop Kim, Kie-Bong Nahm, Jong-Dae Kim	Peng-Jyun Liu, Ming-Chuen Chuang
		C1-5 10:00	
		SN5008- Performance Evaluation of	
		Cost-Optimized Thermal Cycler Young-Hyun Park, Hye-Jeong Song,	
		Chan-Young Park, Yu-Seop Kim, Ji Hyoung Lee, and	
		Jong-Dae Kim	
		C1-6 10:15	
		SN5009- Reaction Chamber Temperature	
		Measurement of Micro PCR Chip Seung-Cheol Lee, Hye-Jeong Song, Chan-Young Park,	
		Yu-Seop Kim, Ah-Reum Park, and Jong-Dae Kim	
		C1-7 10:30	
		SN5010- Automatic Detection of Malaria Parasite in Blood Images Using Two Parameters	
		Kyeong-Min Nam, Jong-Dae Kim, Chan-Young Park,	
		Yu-Seop Kim, Hye-Jeong Song	
		C1-8 10:45	
		SN5011- Fluorescence Standard Reference Plate	
		for UV Illumination using Quantum Dots	
		Deuk-Ju Lee, Jong-Dae Kim, Yu-Seop Kim, Hye-Jeong Song, Inyoung Kim, and Chan-Young Park	
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		Room D (7F- Mean)
31th	Oral	D1.	· · · · · · · · · · · · · · · · · · ·
October	Session 1	J. Mechanical Engineering	
(Sat.)	9:00	SA. Recent Advances in Dynamics and Vibration Er	ngineering
	12:00	Kihong Shin, Andong National University, Session Cl	hair
	12.00	Tai-Ping Chang, Andong National Kaohsiung First U	Iniversity of Science and Technology, Session Chair
		D1-1 9:00	D1-9 11:00
		SA5001- A Low Cost Flexible Electrodynamic	J5027- Design of a Gas-filled Adjustable Shock
		Planar Loudspeaker	Absorber and a Ride Comfort-based Spring for Active Vehicle Suspension Systems
		Jium-Ming Lin, Ubadigha Chinweze Ukachukwu, Cheng-Hung Lin	Caiyang Wei, Pak Kin Wong, Zhengchao Xie,
		Cheng Hung Lin	Jing Zhao, Rui Deng
		D1-2 9:15	D1-10 11:15
		SA5002- Structural Damage Identification and	J5028- Design of a Road Friendly SAS System for
		Optimal Design of Retrofitting for Railway Bridges	Heavy-duty Vehicles based on a Fuzzy
		with Composite Plates Based on Bridge Responses	Hybrid-ADD and GH-control Strategy
		Tai-Ping Chang	Jing Zhao, Pak Kin Wong, Zhengchao Xie, Rui Deng,
			Caiyang Wei
		D1 2 0 20	
		D1-3 9:30	D1-11 11:30
		SA5003- Nonlinear Vibration of Single-Walled Carbon Nanotubes with Small Scale Effects and	J5030- Fabrication of Tiny Whiskers on Core-shell Nanowires Based on Stress-induced Atomic
		Random Material Properties	Migration
		Tai-Ping Chang	Yuhki Toku, Mikio Muraoka, Yang Ju
		0 0	, , , ,
		D1-4 9:45	D1-12 11:45
		SA5007- Correlation Analysis of Transient	J5034- Investigation of Characteristics of Shear
		Vibration Signals for the Location Template	Layer: Application of Synthetic Jet in
		Matching Method	Backward-Facing Step Flow Field
		Kihong Shin	Chia-Wei Hsu, San-Yih Lin
		D1-5 10:00	
		SA5011- Dynamic Behavior of Steel Plates	
		Subjected to Blast Loading	
		Jong Yil Park, Eunsun Jo, Min Sook Kim,	
		Young Hak Lee	
		D1-6 10:15	
		SA5022- Evaluation of Machine Learning Method	
		for Ground Vibration Prediction Model Induced by High-speed Railway	
		Chi-Jim Chen, Yit-Jin Chen	
		on our onen, in our enen	
		D1-7 10:30	
		SA5032- Using CAE Techniques for the Dynamic	
		Analysis of 3-Axis CNC Machine Tools	
		Yunn-Lin Hwang, Jung-Kuang Cheng,	
		Van-Thuan Truong	
		D1 8 10.45	
		D1-8 10:45	
		J5020- Hole Problems in a Circular Piezoelectric Plate	
		Yen-Chu Liang, Yun-Ping Sun and Lung-Nan Wu	
		Ten Shu Lung, Tun Ting Sun unu Lung-Hun Wu	
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		Room E (7)	F- Mencius)
31th	Oral	F1	
October	Session 1	F. Computer & Information Engineering	
(Sat.)	9:00	L. Environmental, Food, Health Science & Technology	
	12:00	SD. Multimedia Communications and Applications	and the second
		SS. Advances in Computer Engineering and Artifici	0
		Yih-Chuan Lin, National Formosa University, Session Yao-Tang Chang, Kao Yuan University, Session Chai	
		Tuo Tung chung, tuo Tuun chirersuy, session chu	
		E1-1 9:00	E1-9 11:00
		SD5003- Spectrum Monitoring for Wireless TV	F5029- A Simple Personal Information
		Broadcast Using Software-Defined Radio	Authorization Architecture
		Wen-Tzu Chen, Ku-Tung Chang, Chung-Pao Ko	Hsia-Hung Ou
		E1-2 9:15	E1-10 11:15
		SD5004- Effects of a Computer-assisted Argument	SS5004- Multi-bits Data Hiding Scheme for
		Mapping Learning Strategy on Sixth Grade	Compress Secret Message
		Students' Argumentative Essay Reading	Wen-Chung Kuo, Shao-Hung Kuo, Lih-Chyau Wuu
		Comprehension <i>Kuang-Hung Chiang, Cheng-Yu Fan, Hsiao-Hung Liu,</i>	
		Gwo-Dong Chen	
		,	
		E1-3 9:30 SD5005 Prediction Techniques for Ored Tree	E1-11 11:30 SS5010 Convergence Analysis of the Josephi
		SD5005- Prediction Techniques for Quad-Tree Partition in HEVC	SS5010- Convergence Analysis of the Jacobi Pseudo-spectral Method for Second Order Volterra
		Yih-Chuan Lin, Jian-Cheng Lai, Hsu-Chun Cheng	Integro-differential Equations
			Xiao-Yong Zhang
		E1-4 9:45	E1-12 11:45
		SD5006- Confidential Enhancement with Logistic	L5007- SMS-Based Automated Water Level Recorder
		Map/M-sequence Mapping for Scrambling H.264/AVC Video Streaming over SAC-OCDMA	in Increasing Social Preparedness toward Flash Flood at Bringin River, Semarang, Indonesia
		Network	Suharyanto, Suyitno H. P.
		Yao-Tang Chang, Yih-Chuan Lin	5unui yuno, 5uyuno 11. 1 .
		E1-5 10:00	
		SD5007- A Study of Object-based Error	
		Concealment in 3D Video	
		Chuen-Ching Wang, Chien-Shiang Hong,	
		Shen-Chuan Tai	
		E1-6 10:15	
		SD5010- An Interactive Multimedia e-Learning	
		Material on Fiber Welding and Measurement	
		Yu-En Wu, Yu-Sing Yeh, Wei-Chih Hsu,	
		Min-Hsiang Huang	
		E1-7 10:30	
		F5022- Improving IDS Alerts Using Predictive	
		Apriori Algorithm	
		Budi Tiar Saputra, Fuw-Yi Yang	
		E1-8 10:45	
		F5023- CIDP Treatment: An Innovative Mobile	
		Botnet Covert Channel based on Caller IDs with P8	
		Treatment	
		Chia-Hao Lee, Chih-Wen Ou, Fu-Hau Hsu, Yu-Liang Hsu	
		In Lang Hou	
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	Room C (7F- Confucious)	Room D (7F- Mean)
31th Oral October Session (Sat.) 13:00 15:00	¹² A. Materials Engineering SJ. Recent Advances in Civil Engineering and Construction Material	D2. A. Materials Engineering J. Mechanical Engineering SB. Recent Advances in System Dynamics, Design and Control Engineering Yi-Cheng Huang, National Changhua University of Education, Session Chair Kai He, Center for Precision Engineering, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Session Chair
	C2-1 13:00	D2-1 13:00
	A5001- Effect of Li2CO3 Addition on The Microstructure and Electrical Properties of Lead-Free (Na0.5K0.5)NbO3-Bi0.5(Na0.90K0.10)0.5TiO3 <i>Chun-Huy Wang</i>	SB5001- Iterative Learning Control Bandwidth Tuning Using the Particle Swarm Optimization Technique for High Precision Motion Yi-Cheng Huang, Yi-Wei Su and Po-Chou Chuo
	C2-2 13:15	D2-2 13:15
	A5002- Effect of Sintering Condition on the Microstructure and Electrical Properties of Lead-Free (Na0.5K0.5)NbO3 - Bi0.5(Na0.83K0.17)0.5TiO3 Ceramics <i>Chun-Huy Wang</i>	SB5002- Prediction and Design of Optimal Surface Roughness for CNC Turning of Aluminium 7075-T6 by Using Taguchi-based Response Surface Methodology and Hybrid Quantum-Behaved Particle Swarm Optimization Wen-Jong Chen, Chuan-Kuei Huang, Qi-Zheng Yang, Yin-Liang Yang
	C2-3 13:30	D2-3 13:30
	A5038- Study on the Cracking in the Acrylic Glass	SB5004- Study of Piezoelectric Materials Combined
	of a Trainer Aircraft Cockpit Banglin Dong, Weitao Lou, Huipeng Chen, Jingjing He, Weifang Zhang	with Electromagnetic Design on Bicycle Power Dyi-Cheng Chen, Shih-Hung Kao, Chen-Kun Huang, Chia-Yu Liu, Yi-Ting Lai
	C2-4 13:45	D2-4 13:45
	A5005- The Influence of Concrete Compression Strength Gradation to the Behavior of an Element Han Aylie, Buntara S. Gan, M. Mirza Abdillah Pratama	SB5007- Modified Dynamic Viscometer Designs at Micro-scale <i>Jin-Chuan Chang, Kerwin Wang</i>
	C2-5 14:00	D2-5 14:00
	A5008- Core-shell Typed Copolyaniline Coated Polymeric Nanoparticle Suspension and Its Viscoelastic Response under Electric Fields Il-Jae Moon and Hyoung Jin Choi	A5004- A New Kind of Incremental Bending Method for Complicated Curved Sheet Metal Jiuhua Li, Xiaobing Dang, Kai He, Qiyang Zuo and Ruxu Du
	C2-6 14:15	D2-6 14:15
	A5014- Wireless Inertial Sensors Made on Flexible Substrate and Based on Thermal Convection and Near-Field-Communication Principles Jium-Ming Lin, Cheng-Hung Lin	A5029- Preparation of Cu-Zn Ferrite Photocatalyst and It's Application Yen-Chun Liu, Jarn-Chih Hsu, Yen-Pei Fu and Kuo-An Tsai
	C2-7 14:30	D2-7 14:30
	A5020- Microwave Dielectric Properties of NdTi0.5W0.5O4 Ceramics	J5009- A New Test Method for Shipping Pallet of Solar Product
	Yih-Chien Chen, Min-Zhe Weng and Ruei-Yang Syu	Shu-Tsung Hsu, Yean-San Long, Teng-Chun Wu
	C2-8 14:45	D2-8 14:45
	SJ5007- Study on Utilization of LVL Sengon (Paraserianthes falcataria) for Gable Frame Structure	J5026- Finite Element Analysis on the Response of 6061-T6 Aluminum Alloy Tubes with a Local Sharp Cut under Cyclic Bending
	Ali Awaludin, Pinta Astuti	Chen-Cheng Chung, Kuo-Long Lee, and Wen-Fung Pan

		Room E ('	7F- Mencius)
31th	Oral	E2.	
October (Sat.)	Session 2 13:00	SC. Multimedia Application and Tools SH. Recent Innovations in Sensors	
	15.00	SH. Recent Innovations in Sensors Hsiang-Chen Hsu, I-Shou University, Session Chair	
	15:00	Ethan Yun-Yao Chen, National Cheng Kung University	
		E2-1 13:00	E2-7 14:30
		SH5001- Development of Tooling Machine	SH5002- MTPDF: A Novel Machine Tool
		Diagnostic System using MEMS Micro Sensors: A	Performance Diagnosis Framework
		Case Study Shang-Liang Chen, Yin-Ting Cheng, Zheng-Wei Lin,	Shang-Liang Chen, Yin-Ting Cheng, Zheng-Wei Lin, Yun-Yao Chen
		Yun-Yao Chen	
		E2-2 13:15	E2-8 14:45
		SH5004- Design on MEMS-Based 3D Biochip for	SC5004- Arch Index and Plantar Pressure
		Drug-Released Dispenser Hsiang-Chen Hsu, Li-Ming Chu, Baojun Liu,	Calculation using Automatic Footprint Detection Approach
		Chien-Yuan Lai	Thossaporn Kaewwichit, Ke-Han Su,
			Chien-Hsun Tseng, Chong-Ching Chang
		FA 2 12 20	
		E2-3 13:30 SH5022- Combined Multi-Hop Distributed	
		Energy-Efficient Cluster Algorithm with Fuzzy	
		Logic Control for Wireless Sensor Networks	
		Young-Long Chen, Li-Hsien Chang, and Tuo-Jing Huang	
		E2-4 13:45	
		SH5026- EyeSee; an Assistive Device for Blind Navigation with Multi-Sensory Aid	
		Catherine A. Todd, Mohammad Albatat,	
		Amish Suchak	
		E2-5 14:00	
		SH5025- Creative Activity Aid using Active Tremor Cancellation	
		Catherine A. Todd, Shaikha AlBadi, Nour El Sayed,	
		Mina Makary, Omar Mahmoud	
		E2-6 14:15	
		SH5024- Towards an Autonomous Unmanned	
		Aerial Vehicle for Indoor Flight and Assistive Healthcare	
		Catherine A. Todd, Mohamed Watfa,	
		Yassine El Mouden, Sana Sahir, Áfrah Ali,	
		Ali Niavarani, Aoun Lutfi, Abigail Copiaco, Vaibhavi Agarwal, Kiyan Afsari,	
		Christopher Johnathon, Henry Okafor, Marina Ayad	

		Room A	(6F-Li)	
1st	Oral	A3.		
November (Sun.)	Session 3 09:00	J. Mechanical Engineering		
(Sun.)	09:00	SA. Recent Advances in Dynamics and Vibration Engineering SG. Recent Advances in Mechanism and Machine Design		
	12:00	SK. Recent Advances in Prognostics and System He		
		Yi-Chang Wu, National Yunlin University of Science	& Technology, Session Chair	
		Wan-Tsun Tseng, National Yunlin University of Scier	ice & Technology, Session Chair	
		A3-1 9:00	A3-9 11:00	
		SG5005- The Investigation of Electrode Design and	SK5001- A Virtual Maintenance-based Approach	
		Output Performance of Piezoelectric Actuator	for Satellite Assembling and Troubleshooting	
		Shyang-Jye Chang, and Zheng-Yang Hsieh	Assessment Geng Jie, Li Ying, Lv Chuan, Zhou Dong	
			Geng sie, El Ting, El Chuan, Enou Dong	
		A3-2 9:15	A3-10 11:15	
		SG5006- Development of Motion Vectors Searching Method for High-Resolution Image Sequence	SA5016- Design Validation of Dynamic Model of Small Satellite Structure	
		Shyang-Jye Chang, and Ray-Hong Wang	M. Prabu Sai Manoj, Rakesh Ramakrishnan,	
			V. Aditya, Nachiketa Chauhan, Akshay K. Gulati and	
			C. Padmanbhan	
		A3-3 9:30	A3-11 11:30	
		SG5008- Development of a low-power Permanent		
		Magnet Wind Power Generator for Micro-grid		
		Wan-Tsun Tseng, Li-Iau Su, Wen-Sheng Chen		
		A3-4 9:45	A3-12 11:45	
		SG5010- Structural Analyses of Water Lifting		
		Devices with Gears in Ancient China Kuo-Hung Hsiao, Yu-Hsun Chen		
		Kuo-mung msudo, nu-msun Chen		
		A3-5 10:00		
		A3-5 10:00 SG5013- Micromirror Based Laser Vector		
		Scanning Virtual Image Head-up Display		
		Chao Fan and Siyuan He		
		A3-6 10:15		
		J5023- Ultrasonic Assisted Thermoforming for		
		Rapid Fabrication of Micro-speaker Diaphragm		
		Ho-Jin Bae, Keun Park		
		A3-7 10:30		
		J5035- Layer Thickness Effects of Flexible Organic Light-Emitting Diodes		
		Tsai-Cheng Li, Sheng-Da Cai, Rwei-Ching Chang		
		A3-8 10:45		
		J5010- Development of an Interface between 3D		
		Kinect Scanner and Kossel Mini Printer		
		Cheng-Tiao Hsieh		

		Room B (6F-	Boardroom)
1st	Oral	B3.	
November (Sun.)	Session 3 09:00	I. Control Engineering	
(Suii.)	09:00	M. Innovation Management	
	12:00	N. Intelligent Computing WE. Medical Imaging, Image and Signal Processing	
		Hsiang-Chuan Liu, Asia University, Session Chair	
		Inchio Lou, University of Macau, Session Chair	
		B3-1 9:00	B3-9 11:00
		N5003- Backpropagation Neural Ensemble for	I5003- Quickly Implement FPGA Chip Control for
		Localizing and Recognizing Non-Standardized	Self-propelled Vehicle Searching Light on Simulink
		Malaysia's Car Plates	Platform
		Chin Kim On, Rayner Alfred, Teo Kein Yao, Patricia Anthony and Wang Cheng	Cheng-Shion Shieh
		B3-2 9:15	B3-10 11:15
		N5001- Algal Bloom Prediction by Support Vector	M5001- A Generalized DEMATEL Theory with a
		Machine with Genetic Algorithm Optimization in Freshwater Reservoirs	Shrinkage Coefficient of Indirect Relation Matrix
		Zhengchao Xie, Yanjie Wang, Inchio Lou,	Hsiang-Chuan Liu, Ben-Chang Shia, Yih-Chang Ou, Huan-Wen Su
		Wai Kin Ung, and Kai Meng Mok	
		B3-3 9:30	B3-11 11:30
		N5006- A Novel Ordering Theory For Multiple Choice Question Based on Liu's Polytomous	
		Ordering Theory	
		Hsiang-Chuan Liu, Yih-Chang Ou, Hsien-Chang Tsai,	
		Yen-Kuei Yu,Te-Ying Cheng, Huan-Wen Su	
		D2 4 0 45	D2 10 11 45
		B3-4 9:45 WE5002- Speeding up Estimation of the Hurst	B3-12 11:45
		Exponent by a Two-stage Procedure from a Large to	
		Small Range	
		Yen-Ching Chang	
		B3-5 10:00	
		WE5004- Total Variation Based Edge Enhancement of	
		Intima-Media Layer for Level Set Segmentation in	
		Carotid Arteries and Analysis of Shape Based Features	
		Sumathi Krishnaswamy, Mahesh Veezhinathan	
		B3-6 10:15	
		WE5007- Analysis of Brain Subanatomic Structures in	
		Alzheimer MR Images Using Anisotropic Diffusion and p-Laplace Level Sets	
		K. R. Anandh and C. M. Sujatha	
		ř	
		B3-7 10:30	
		WE5019- Time Sequence Images of PET with Wavelet Technique	
		Chih-Yu Hsu, Yeong-Lin Lai, Chih-Cheng Chen,	
		Yu-Tzu Lee, Yeong-Kang Lai, Chun-Yi Zheng,	
		Huai-Cian Jheng	
		B3-8 10:45	
		I5001- Robust Control of Pendulum-typed	
		Micro-Vibration Isolation System	
		Meng-Shiun Tsai, Yann-Shuoh Sun	

		Room C (7F-	- Confucious)	
1st	Oral	C3.		
November (Sun.)	Session 3 09:00	A. Materials Engineering		
(()()))		SF. Advanced Development on Materials and Mecha	anic	
	12:00	SU. Advances in Information Analysis Techniques		
		Chun-Hsiung Tseng, Nanhua University, Session Cha Jia-Shing Sheu, National Taipei university of Educati		
		C3-1 9:00	C3-9 11:00	
		SU5001- An Automatic Data Analysis Tool for the	SF5007- Stability of Twin Circular Tunnels in	
		Web	Cohesive-Frictional Soil Subjected to Surcharge Loading Using the Node-based Smoothed Finite	
		Chun-Hsiung Tseng, Yung-Hui Chen, Ching Lien Huang, Yan-Ru Jiang	Element Method (NS-FEM)	
		0 0/ 0	Thien M. Vo, An N. Chau, Tam M. Nguyen,	
			Hoang C. Nguyen	
		C3-2 9:15	C3-10 11:15	
		SU5003- Predicting the Financial Crisis by Mahalanobis Taguchi System –Adaptive Resonance	SF5009- Cutting of Glasses by Laterally Multi Economic Lagor	
		Theory Neural Network Algorithm in Dynamic	Hsiang-Chen Hsu, Shih-Jeh Wu and Wen-Fei Lin	
		Environments		
		Ching-Lien Huang, Chun-Hsiung Tseng, Yung-Hui Chen,		
		Tian-Long John Wan		
		C3-3 9:30 SU5004 Portials Swarm Ontimization Paged	<u>C3-11 11:30</u>	
		SU5004- Particle Swarm Optimization Based Networked Control System Design with		
		Uncertainties		
		Ti-Hung Chen, Ming-Feng Yeh, Wen-Yo Lee		
		C3-4 9:45	C3-12 11:45	
		SU5005- An Indoor Navigation Service with		
		Continuous Images for Enhancing Search Activities		
		in Libraries Hsuan-Pu Chang, Hao-Ming Lee and Shi-Pin Fong		
		<u>C3-5</u> 10:00		
		SU5006- The Data Analytics and Planning of Demand Quantity on Deteriorating Items for		
		Collaborative Forecasting in the CPFR Application		
		Business Models		
		Juin-Han Chen		
		$C_{2} \leftarrow 10.15$		
		C3-6 10:15 SU5007- The Application of Remote Control Home		
		Appliances Based on Bluetooth Phone App		
		Yung-Hui Chen, Ching-Lien Huang,		
		Chun-Hsiung Tseng, Lawrence Y. Deng, Deng-Qing Jian, Long-He Lee		
		C3-7 10:30		
		A5032- The Origin of High Efficiency in		
		Low-temperature Solution-processable Bilayer Organometal Halide Hybrid Solar Cells		
		Yang-Yen Yu, Chia-Fen Teng		
		0		
		G2 9 19 15		
		C3-8 10:45		
		A5033- Study on Preparation of High-k Organic–Inorganic Thin Film for Organic Thin		
		Film Transistor Gate Dielectric Application		
		Yang-Yen Yu, Chi-Ting Chiu		

		Room D (7F- Mean)
1st	Oral	D3.	
November (Sun.)	Session 3 09:00	C. Electrical & Electronic Engineering	
(5411)		J. Mechanical Engineering	
	12:00	SA. Recent Advances in Dynamics and Vibration Er SM. Recent Advances in Machinery Diagnostics, Mo	igineering Idal Analysis, Measurement & Signal Processing
		Yu Guo, Kunming University of Science and Technolo	• • • •
		Nan Pan, Kunming University of Science & Technolo	gy, Session Chair
		D3-1 9:00	D3-9 11:00
		J5044- Robust Optimization of	SM5012- Fabrication and Simulation of
		Micro-accelerometer with Piezoelectric Thin Films	Self-Focusing Field Emission X-ray Tubes
		Using Surrogate Modeling and Soft Outer Array Design	Kevin Cheng, Yi-Ping Chou, Meng-Jey Youh, Yih-Ming Liu, Ming-Der Ger, Kung-Hsu Hou,
		Chaio-Kai Chang and Jyh-Cheng Yu	Nen-Wen Pu
		D3-2 9:15	D3-10 11:15
		SM5001- Improved Narrowband Demodulation	C5005- An Unambiguous Correlation Function for
		Scheme for Gear Fault Diagnosis	Sine-Phased and Cosine-Phased BOC Signal
		Yu Guo, Qian-Nan Liu, Xing Wu, Jing Na	Tracking Keunhong Chae, Seong Ro Lee, Sunghyuk Woo,
			Seungsoo Yoo, Sun Yong Kim, Gyu-In Jee,
			Huaping Liu, Dong-Jin Yeom, and Seokho Yoon
		D3-3 9:30	D2 11 11-20
		J5013- Machining of Invar(Fe-Ni) Film Using	D3-11 11:30 C5006- A Three-Stage Side-Peak Cancellation Scheme
		Electrodes Array in Pulsed Electrochemical Micro	for Unambiguous CBOC(6,1,1/11) Signal Tracking
		Machining	Keunhong Chae, Seong Ro Lee, Sunghyuk Woo,
		Kwang-Ho Chun, Seung-Geon Choi, Eun-Sang Lee	Seungsoo Yoo, Sun Yong Kim, Gyu-In Jee,
			Huaping Liu, Dong-Jin Yeom, and Seokho Yoon
		D3-4 9:45	D3-12 11:45
		J5012- Electrochemical Micro Machining	SA5031- Vibration of an Air Coupled Driver's
		Characteristics of Fe64Ni36 Invar Film Using	Head
		Micro WC Rod Electrode	Jung-Ge Tseng, Bo-Wun Huang, Yu-Xian Qiu,
		Woong-Kirl Choi, Seong-Hyun Kim and Eun-Sang Lee	Xin-Huan Wang
		D3-5 10:00	
		J5001- Bearing Compound Fault Acoustic	
		Diagnosis based on Improved Blind Deconvolution	
		Algorithm	
		Nan Pan, Xing Wu, Yu Guo, Zeguang Yi	
		D3-6 10:15	
		J5016- Performance Investigation of an SI Engine	
		with Variable Valve Timing and Lift based on	
		Magneto-Rheological Valve	
		Yaojung Shiao, Wen-Shin Cheng	
		D3-7 10:30	
		J5018- A Study on Fine Sheet Metal Electro	
		Chemical Micro Machining Characteristics with	
		Nano Pulse Factors	
		Seong-Hyun Kim, Woong-Kirl Choi, Eun-Sang Lee	
		D3-8 10:45	
		SM5005- Research on Condition Monitoring of Industrial Robot Reducer with Acoustic Emission	
		Technology	
		Xiaoqin Liu, Xing Wu, Chang Liu, Tao Liu	

1st (Sun.) Oral 13:00 14. B4. Owenthy (Sun.) 15:00 1. Anomation Engineering and E. Parytomental, Food, Health Science & Technology (Sun.) 15. 1st.00 1. Statistic and Robustics Engineering E. Davitomental, Food, Health Science & Technology (Sun.) 15. 1st.00 1. Statistic and Instrumentation Construction Materials WD. Medical Devices, Biomedical Materials, Weiz Ting Lin, National Han University, Session Chair Nessurement and Instrumentation Charge Huang Chen, Tanggana Envircity, Session Chair St5001. Modified Bare Bone Particle Swarm Optimization Charge Huang Chen and Chir Ming Lin B4-1 13:00 A4-1 13:00 B4-1 13:00 St5018-Selssuic Performance of Reinforced Con Frames Retroffted with Inserted Steel Frame and Athered Waved Steel Frame and Kange Frame and Kange Frame Athered Steel Frame and Steel Frame and Athered Waved Steel Frame and Athered Waved Steel Frame and Ath			Room A (6F-Li)	Room B (6F-Boardroom)
Sovember (Sun.) Session 4 (Sun.) St. B event Advances in Infrastructure reclamage St. B event Advances in Civil Engineering and St. B event Advances in Civil Engineering and St. B event Advances in Civil Engineering St. Swerm Intelligence and Innovation of Power Engineering Applications (Cheng-Huang Chen, Tanggan University, Session Cheir Te-Kevi Wang, Marg Chu University, Session Cheir Ad-1 13:00 ST5001- Modified Bare Bane Particle Swarm Optimization Chang-Huang Chen and Chi-Ming Lin B4-1 13:00 ST5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen and Chi-Ming Lin. Te-Kevi Wang, Fa-Chia Wang, ST5003- Bridgelese Power Pactor Corrector for Permanent Magnet Synchronous Motor Driver Chih-Ming Lin. Te-Kevi Wang, Fa-Chia Wang, ST5003- Bridgelese Power Pactor Corrector for Permanent Magnet Synchronous Motor Driver Chih-Ming Lin. Te-Kevi Wang, Fa-Chia Wang, ST5004- Application of the NTP to a Power System Stability Measurement System Te-Kevi Wang St5003- Souditions Induces Mang, Sun-Jin Jap-Spliced Reinforcing Bars Considering Multi Stress Conditions Induces Si Kim A4-4 1345 J1-44 J345 St5004- Response of Pre-Damaged RC Members Stability Measurement System Te-Kevi Wang St5004- Response of Pre-Damaged RC Members Strengthened by Unbonded Tendons Sarg-Hum Chin. Structure Bary Metals in APC Residues from Chang, Ming-Yen Wev Measuremat System Te-Kevi Wang St5004- An Espe				
(3001) 1 1 3.1. 8.1. Recent Advances in Civil Engineering and C. Euviremental, Food, Health Science & Fechnology (1530) 1.5. 8.1. Recent Advances in Civil Engineering and C. Euviremental, Food, Health Science & Fechnology, Session Civil Engineering, Session Civil Engi	November			SI. Recent Advances in Infrastructure Technologies
15:30 L. Avironmenia, rood, fream Science & Feedback 15:30 Measurement and Instrumentation 15:30 L. Avironmenia, rood, fream Science & Feedback 15:30 Stous	(Sun.)	-		
bit. Swarm Intelligence and InflorMann & Power WD, Nether Parketin, State Matricks, Weisersenert and Instrumentation Chang-Hang Chen, Targum University, Seesion Chair Te-Koei Wang, Ming Chi University of Technology. Seesion Chair Wei-Fing Lin, National Har Divisority, Seesion Chair Te-Koei Wang, Ming Chi University of Technology. Seesion Chair A4-1 13:60 B-1 13:00 ST 5001- Modified Bare Bone Particle Swarm Optimization and ChibMing Lin S15018- Scisnic Performance of Reinforced Con Frames Retrofitted with Inserted Steel Frame an Adhered Waved Steel Panel A4-2 13:15 B-42 13:15 ST 5002- Economic Power Dispatch by Modified Quantum-balwaved Particle Swarm Optimization Chang-Huang Chen B-3 13:30 ST 5003- Endostine Group Line Change Manne Magnet Synchronous Motor Driver ChihMing Lin. Te-Kwi Wang, Fia-Chia Wang, Te-Kwi Wang S15028- Bond Strength Estimation Model for Lap-Spliced Reinforcing Bars Conditions Change Lee, Jane-Jine Magnet Strongthened by Unbonded Tenduced in Surrounding Conc Soon-Bam Ka, EurJi Lee, Jin-Huang, Sun,-Jin J Deack Huang Lee, and Kang Su Kim A4-4 13:45 B-4 13:30 ST 5004- Rebogical Brake for Adaptive Knee Orthosis S15048- Response of Pro-Damaged RC Members Strengthened by Unbonded Tenduced in Surrounding Concer Strengthened by Unbonded Tenduced Strengthe Strength Stating Table Tests on Effect Hazardous Heavy Metals in APC Residues from MSW Heither Hang La, Hang Chang, Ming-Yen Wey H-4 14:30 H-45 14:30 S15018- Chani				Construction Materials
WD. Medical Devices, Biomedical Materials. Measurement and Instrumentation Chang-Huang, Chen, Tungmun University of Technology, Session Chair A4-1 A4-1 J S00 ST5001- Modified Bare Bone Particle Swarm Ophimation Chang, Huang, Chen and Chih-Ming Lin ST5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang, Chen Chang-Huang, Chen A4-3 J St300 ST5003- Bridgeless Power Factor Corrector for a Permanet Magnet Synchronous Motor Driver Chang-Huang Chen Chang-Huang Chen A4-4 J Stability Measurement System Te-Kwei Wang Kability Measurement System Te-Kwei Wang Stability Measurement System Te-Kwei Wang Hui-Huang Ming-Yen Wey </td <td></td> <td>10100</td> <td></td> <td>Wei-Ting Lin, National Ilan University, Session Chair</td>		10100		Wei-Ting Lin, National Ilan University, Session Chair
Measurement and Instrumentation Chang-Huang Cher, Turggend University of Technology, Session Chair A4-1 13:00 ST 5501- Modified Bare Bone Particle Swarm Optimization Chang-Huang Chen and Chih-Ming Lin Stous-Session Cheron A4-2 13:15 St 5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen A4-3 13:30 St 5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen St 5022- Generalized Finite Element Analysts Usity St 5003- Endgeless Power Factor Corrector for a B4-3 Permanent Magnet Synchronous Motor Driver Stous- Rom Ka Euw-Ji Lee, Jin-Harbang, Sun-Jin Jouang-Jin Kim A4-4 13:45 St 5004- Application of the NTP to a Power System Stous- Rom Ka Euw-Ji Lee, Jin-Harbang, Sun-Jin Jouand Kimg Jiao, Mang Su Kim A4-4 13:45 St 5004- Reloogical Practice for Adaptive Kare Orthosis Partitioning and Leaching Characteristics of Hazardous Harg Lee, Jiao Wang, Su Kim A4-5 14:50 B4-5 14:10 B5002- Development of Liph				Dae-Jin Kim, Kyung Hee University, Session Chair
Te-Kwei Wang, Ming Chi University of Technology. Session Chair A4-1 13:00 ST5001- Modified Bare Bone Particle Swarm S15018- Scisnic Performance of Reinforced Con Optimization S15018- Scisnic Performance of Reinforced Con Chang-Huang Chen Andered Waved Steel Panel and Chit-Ming Lin Namkik Ann, Min Sock Kim, Scong-Ean Song, Young Ital. Lee A4-2 13:15 ST5002- Economic Power Dispatch by Modified S15025- Generalized Finite Element Analysis Usi Preconditioned Conjugate Gradieel Method Chang-Huang Chen CA-Aronado Duarte, Sumg-Cail Hong, Dae-Im Kin A4-3 13:30 ST5003- Bridgelese Power Factor Corrector a B4-3 Permatent Magnet Synchronous Motor Driver Stap Spliced Reinforcing Barc Conditoring Matti Chang-Hoo Hiu Stap Spliced Reinforcing Barc Conditoring Matti A4-4 13:45 ST5004- Application of the NTP to a Power System St5003- Response of Pre-Damaged RC Members Strongtheendy Unbonded Tendons Stop Stam, Staking Washing Table Tests on Effect Maperto-Rhonologial Brack for Adaptive Knee St5003- Response of Leg. Jan-Yuel Oh, Huyapin Ju, and Kang Staking A4-5 14:15 St4:60 B4007- Development of Light-				
Sesion Chair A4.1 13:00 A4.1 13:00 B4.1 13:00 ST5001- Modified Bare Bone Particle Swarm Optimization St5015- Seismic Performance of Reinforced Con Frames Retrofitted with Inserted Steel Prane an Adhered Waved Steel Panel A4.2 13:15 B4.2 13:15 ST5001- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen B4.2 13:30 A4.3 13:30 B4.3 13:30 ST5003- Bridgeless Power Factor Corrector for a Permanent Magnet Synchronous Motor Driver Chin-Ming Lin, Te-Kwei Wang, Fu-Chia Wang, Chang-Hau St5020- Bond Strength Estimation Model for St5030- Response of Pre-Damaged RC Members St5040- Application of the NTP to a Power System Stability Measurement System Te-Kwei Wang St5040- Response of Pre-Damaged RC Members Strengthened by Unbonded Tradoms Strengthened by Unbonded Tradoms Strengthened by Unbonded Tradoms Strengthened by Stems for Liqueffed Still Wars/Hur Chong Leaching Characteristics of Hazardons Heavy Metals in APC Residues From MSW Hacineration Chien-Hing Lu, Kui-Hao Chuang, Ming-Yen Wey St5003- Cemprose of Pre-Damaged RC Members Strengthened by Unbonded Stein Strengthened by Unbonded Stein Hazardons Leavy Metals in APC Residues From MSW Hacineration Chien-Hing Lu, Kui-Hao Chuang, Ming-Yen Wey St5003- Cemprose of Pre-Damaged RC Members Strengthene Dy Stems for Liqueffed Stein Hazardons Leavy Metals for Adaptive Knee Orthosis St5003- Centrifuge Shaking Table Tests on Effec St5003- Centrifuge Shaking Table Tests on Effec Modular Bridge Hazardong Leavy Metalske for Adaptive			Chang-Huang Chen, Tungnan University, Session Chair	
A4.1 13:00 B4.1 13:00 ST5001- Modified Bare Bone Particle Swarm Optimization Chang-Huang Chen and Chih-Ming Lin St5018- Seismic Performance of Reinforced Com Numbik Ala, Min Sock Kin, Scong-Eon Song, Young Hak Lee A4.2 13:15 B4-2 13:15 ST5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen B4-3 13:30 A4.3 13:30 B4-3 13:30 ST5003- Bridgeless Power Factor Corrector for a Permanent Magnet Synchronous Motor Driver Chint-Ming Lin, Tc-Kvet Wang, Fur Chia Wang, Chang-Hoo Hua B4-3 13:30 ST5004- Application of the NTP to a Power System Stability Measurement System Tc-Kwei Wang St5030- Response of Pro-Damaged RC Members Strasting Mass in APC Residues from MSW Incineration Chine-Hang La, Kai-Hao Chuang, Ming-Yen Wey St5030- Centrifuge Shaking Table Tests on Effect Wer: Hung, Chang-Jang Lee A4-5 14:00 B4-7 14:30 St5004- Revelopment A Polymer-Based Electronic Plazardons Lice, Jin-Hai Huang, Lin, Jingyen Lin St5030- Centrifuge Shaking Table Tests on Effect Wer Still Hang, Chang-Jang Lee A4-5 14:00 B4-7 14:30 St5004- Development A Polymer-Based Electronic Plaze Disgnosis Instrument for Measuring and Analyzing Plase Wave Velocity St5018- Choiride Ion Transport Behavior of Math Based on Centeri-Bang Havier Strunsmission Function Hist-Chang Chou, Kai-Hua Chuang,				
ST5001- Modified Bare Bone Particle Swarm Optimization St5015-Scienci Performance of Reinforced Com Primes Recrifted with Incerted Steel Frame an Adhered Wared Steel Panel and Chi-Ming Lin Namsik Akm, Mm Sook Kim, Seong-Eon Song, Young Hak Lee A4-2 13:15 St50015-Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen B4-2 A4-3 13:30 St50015-Bridgeless Power Factor Corrector for a Permanent Magnet Synchronous Motor Driver Chin-Ming Lin, Te-Kwei Wang, Fu-Chia Wang, Chang Hao Hsu St5025-Generalized Finite Element Analysis Usi Preconditioned Conjugate Guidhorg, Due-Jin Kim A4-4 13:50 B4-2 13:30 St5004-Application of the NTP to a Power System Stability Measurement System Ta-Kwei Wang St5030-Response of Pre-Damaged RC Members Strengthened by Unbonder Indon Subality Measurement System Ta-Kwei Wang B4-5 14:00 A4-5 14:00 B4-5 14:00 B5007-Partitioning and Leaching Characteristics of Hazardous Heavy Metals in APC Residues from MSW St5003-Centrifuge Shaking Table Tests on Effec Wrotsal Train Link, Link Link Chauge, Ming-Yen Wey A4-6 14:15 St5004-Application on Kui-Hang Lai, Tingyen Lin St5005-Chang-Jang, Lee Magneto-Rheological Brake for Adaptive Knee Orthosis Pa-14:30 Pa+7 14:30 WD5010-Development of Light-Weight Magneto-Rheolo			Session Chair	
Optimization Frames Retrofitted with Inserted Steel Frame an Albered Waved Steel Panel and Chih-Ming Lin Namshik Ann, Min Sook Kim, Seong-Eon Song, Young Hak Lee A4-2 13:15 ST5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-thang Chen 51502- Generalized Finite Element Analysis Usi Sto22- Generalized Finite Element Analysis Usi Sto22- Generalized Finite Element Analysis Usi Sto22- Sconomic Onjugate Gradient Method C. Armando Duarte, Sung-Gal Hong, Dae-Jin Kim A4-3 13:30 ST5003- Bridgeless Power Factor Corrector for a Permanent Magnet Synchronous Motor Driver Chih-Ming Lin, Te-Kwei Wang, Fue-Chia Wang, Sur-Jin J Dewer System B4-4 13:30 ST5004- Aprilia, Lin, Te-Kwei Wang, Fue-Chia Wang, Sur-Jin J Dewer Hang Lee, Alae-Yael Oh, Fyunjin Ja, and Kang Su Kim B4-4 13:45 St5004- Reponse of Pre-Damaged BC Members System St6030- Reponse of Pre-Damaged BC Members Surger, Hang Chen, Jac-Yuel Oh, Fyunjin Ja, and Kang Su Kim A4-5 14:00 B4-5 13:00 B5007- Partitioning and Leaching Characteristics of Hazardons Heavy Metals in APC Residues from MSW Sto303- Centrifuge Shaking Table Tests on Effect Name, Jace Yuel Oh, Fyunjin Ja, and Kang Su Kim A4-6 14:15 B4-6 14:16 Histore Development of Light-Weight Magneto-Rheodogical Brack for Adaptive Knee Orthosis Sto304- Centrifuge Shaking Table Tests or Clinos Chai, Waoseok Kam			A4-1 13:00	B4-1 13:00
Chang-Huang Chen Adhered Waved Stee Panel and Chih-Ming Lin Nomshit Ahm, Min Sook Kim, Seeng-Eon Song, Young Hak Lee At-2 13:15 B4-2 13:15 ST5002- Economic Power Dispatch by Modified S15025- Generalized Finite Element Analysis Usi Quantum-behaved Particle Swarm Optimization S15025- Generalized Finite Element Analysis Usi Permanent Magnet Synchronous Motor Driver S15025- Bond Strength Estimation Model for Chin-Hing Lin, Te-Kwei Wang, Fu-Chia Wang, S15020- Bond Strength Estimation Model for Ching-Hau S15020- Bond Strength Estimation Model for Sup-Shift Mag Lin, Te-Kwei Wang, Fu-Chia Wang, S15020- Reports of Pre-Damaged RC Members S15000- Application of the NTP to a Power System S15020- Response of Pre-Damaged RC Members S15001- Application of the NTP to a Power System S15020- Centrifuge Shaking Table Tests on Effect B5007- Partitioning and Leaching Characteristics of Hazardous Heavy Metals in APC Residues from Misw Incineration Chiern-Hsing Lu, Kui-Hao Chuang, Ming-Yen Wey S15000- Centrifuge Shaking Table Tests on Effect Magneto-Rheological Brake for Adaptive Knee Orthouse S15000- An Experimental Study on Concrete Bar Magneto-Rheological Brake for Adaptive Knee Orthouse Thauge Shaking Haui-Panetoring Haui-Panetoring Haui-Panetoring Haui			ST5001- Modified Bare Bone Particle Swarm	SI5018- Seismic Performance of Reinforced Concrete
and Cith-Ming Lin Numblit Ahn, Min Sook Kim, Seong-Eon Song, Young Hak Lee A4-2 13:15 B4-2 13:15 ST5002- Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen St5023- Generalized Finite Element Analysis Usi Preconditioned Conjugate Graduel Method C. Armando Duarte, Sung-Gul Hong, Dae-Jin Kim A4-3 13:30 B4-3 13:30 ST5003- Bridgeless Power Factor Corrector for a Permanent Magnet Synchronous Motor Driver Chin-Ming Lin, Te-Kwei Wang, Fu-Chia Wang, Chine-Mao Hsu St5023- Bond Strength Estimation Model for Lap-Spliced Reinforcing Bars Considering Multi Stress Conditions Induced in Surromoding Corre- Son-Bam Ka, Eun-Ji Lee, Jin-Ha Hwang, Sun-Jin J Deack Hang Lee, and Kang Su Kim A4-4 13:45 St5004- Response of Pr-Damaged RC Members Strengthened by Unbonded Tendons Strough Measurement System Ta-Kwei Wang Sts042- Response of Pr-Damaged RC Members Strengthened by Unbonded Tendons A4-5 14:00 B4-5 14:00 B4-5 14:00 B4-5 14:00 B4-5 14:00 B4-5 14:00 B4-5 14:00 B4-6 14:15 B4-6 14:15 St5003- Centrifuge Shaking Table Tests on Effect Vertaol Tain Systems for Liquefield Soil Wen-Yi Hung, Chang-Jang Lee Magneto-Rheological Brake for Adaptive Knee Orthoosis St5004-			Optimization	Frames Retrofitted with Inserted Steel Frame and
A4-2 13:15 B4-2 13:15 ST5002-Economic Power Dispatch by Modified Quantum-behaved Particle Swarm Optimization Chang-Huang Chen St5025-Generalized Finite Element Analysis Usi Preconditioned Conjugate Gradient Method C. Armando Duarte, Sung-Gui Hong, Dae-Jin Kim A4-3 13:30 B4-3 13:30 ST5003-Bridgeless Power Factor Corrector for a Permanent Magnet Synchronous Motor Driver Chin-Ming Lin, Te-Kwei Wang, Fu-Chia Wang, Chang-Hao Hsu St5020-Bond Strength Estimation Model for Lap-Splice Reinforcing Bars Considering Multi Stress Conditions Induced in Surrounding Concr Soon-Bum Ka, Eue, and Kang Su Kim A4-4 13:45 B4-4 13:45 ST5004-Application of the NTP to a Power System Stability Measurement System Te-Kwei Wang S15000-Response of Pre-Damaged RC Members Strengthened by Unbounded Tendons Surg-Hum Cho. Deuck Hang Lee, Jae-Yuel Oh, Hyunjin Ju. and Kang Su Kim A4-5 14:00 B4-5 14:00 B8007-Paritioning and Leaching Characteristics of Hozardous Heavy Metals in APC Residues from MSW Incineration S15004- Centrifuge Shaking Table Tests on Effect Vertical Drain Systems for Liquefied Soil Wen-Yi Hung, Chang-Jung Lee A4-6 14:15 B4-6 14:15 H5000-Development of Light-Weight Magneto-Rheological Brake for Adaptive Knee Orthosis S15018- Chairdie Ion Transport Behavior of Mat Based on Cenner Under Different Storing Envire Temperature Tau-Lung Weng, Shih-Han Weng A4-7 14:				
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Magneto-Rheological Brake for Adaptive Knee Orthosis Yaojung Shiao, chien-Hung Lai, Tingyen LinModular Bridge Hoseong Jeong, Dooyong Cho, Jinwoong Choi, Wooseok KimA4-714:30B4-714:30A4-714:30B4-714:30WD5010- Development a Polymer-Based Electronic Pulse Diagnosis Instrument for Measuring and Analyzing Pulse Wave VelocitySJ5018- Chloride Ion Transport Behavior of Mat Based on Cement under Different Storing Enviro TemperatureA4-814:45B4-814:45WD5011- Design Intelligent Wheelchair with ECG Measurement and Wireless Transmission Function Hsi-Chiang Chou, Yi-Ming Wang, Huai-Yuan ChangSJ5019- Risk Assessment Model for Reinforced Concrete Buildings Containing High Levels of Cl Ions Tsai-Lung WengA4-915:00SJ5017- Effect of 3D 2% Weight/volume Chitosan Scaffold on New Bone Formation in a Rabbit Calvarial Defect Thongchai Nuntanaranont, Bounthone Bounnanatham, Suttatip KamolmatyakulB4-1015:15L5004- Greenness and Livability: An Interwoven Approach to Successful Environmental Planning Hui-Ting Tang, Yuh-Ming LeeB4-1015:15			H5002- Development of Light-Weight	SJ5006- An Experimental Study on Concrete Barrier o
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Pulse Diagnosis Instrument for Measuring and Analyzing Pulse Wave VelocityBased on Cement under Different Storing Enviro TemperatureHsi-Chiang Chou, Kai-Jie Lin, Yi-Cheng TsaiTsai-Lung Weng, Shih-Han WengA4-814:45WD5011- Design Intelligent Wheelchair with ECG Measurement and Wireless Transmission Function Hsi-Chiang Chou, Yi-Ming Wang, Huai-Yuan ChangSJ5019- Risk Assessment Model for Reinforced Concrete Buildings Containing High Levels of Cl Ions Tsai-Lung WengA4-915:00B4-9WD5017- Effect of 3D 2% Weight/volume Chitosan Scaffold on New Bone Formation in a Rabbit Calvarial Defect Thongchai Nuntanaranont, Bounthone Bounmanatham, Suttatip KamolmatyakulSJ5013- Mechanical Properties and Durability of Concrete Containing Calcium Fluoride Sludge An ChengA4-1015:15B4-1015:15L5004- Greenness and Livability: An Interwoven Approach to Successful Environmental Planning Hui-Ting Tang, Yuh-Ming LeeSJ5014- Structural Degradation Assessment of Reinforced Concrete Structures using Self-diagned Technology				SJ5018- Chloride Ion Transport Behavior of Materials
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Scaffold on New Bone Formation in a Rabbit Calvarial Defect Concrete Containing Calcium Fluoride Sludge An Cheng Thongchai Nuntanaranont, Bounthone Bounmanatham, Suttatip Kamolmatyakul A4-10 15:15 A4-10 15:15 B4-10 15:15 L5004- Greenness and Livability: An Interwoven Approach to Successful Environmental Planning Hui-Ting Tang, Yuh-Ming Lee SJ5014- Structural Degradation Assessment of Reinforced Concrete Structures using Self-diagnee Technology				
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Approach to Successful Environmental Planning Hui-Ting Tang, Yuh-Ming Lee Reinforced Concrete Structures using Self-diagnor Technology				
Hui-Ting Tang, Yuh-Ming Lee Technology				Reinforced Concrete Structures using Self-diagnosis
				An Cheng

		Room C (7F- Confucious)	Room D (7F- Mean)
1st	Oral	C4.	D4.
November	Session 4	O. Other Engineering and Technology Related Topics	TC. Architecture and Building Materials
(Sun.)	13:00	SC. Multimedia Application and Tools	WA. Biocomputing and Bioinformatics
	15:30	SO. Clinical Optics	WC. Health Care Technology
		Jia-Shing Sheu, National Taipei university of Education, Session Chair	Yeong-Lin Lai, National Changhua University, Session Chair Yeong-Lin Lai, National Changhua University of
		Ching-Yi Wang, Tatung University, Session Chair	Education, Session Chair
		C4-1 13:00	D4-1 13:00
		SC5003- Implementation of an Interactive TV Interface via Gesture and Handwritten Numeral	WC5003- A Novel Wireless Health Monitor by Using a Wearable Rubber Glove with Three-Dimensional
		Recognition	Scanning Elastic Electrodes to Measure Acupuncture
		Jia-Shing Sheu and Ya-Ling Huang	Bio-Potentials and Impedances of a Whole Palm
			Jium-Ming Lin, Cheng-Hung Lin
		C4-2 13:15	D4-2 13:15
		SC5007- Realization of an Ethernet-based Synchronous Audio Playback System	WC5004- Study on Community Tai Chi Chuan Participants' Leisure Benefits and Well-being: Using
		Jia-Shing Sheu, Ho-Nien Shou,	Taoyuan City as an Example
		and Wei-Jun Lin	Cheng-Jong Lee, Chun-Chi Tseng, Mei-Yu Liu
		C4-3 13:30	D4-3 13:30
		SC5010- Developed 3D Game-Based Rehabilitation System to Explore the Related Factors of TKR	WC5009- Key Success Factors for Clinical Knowledge Management Systems: Comparing Physician and
		Patient'S Rehabilitation Achievement	Hospital Manager Viewpoints
		Chung-Ho Su	Shofang Chang, Ping-Jung Hsieh, Hui-Fang Chen
		C4-4 13:45	D4-4 13:45
		SC5017- Reversible Data Hiding Using Content-Based	WC5015- Development of Wrist Rehabilitation Robot
		Scan and Histogram Shifting Ming-Ni Wu, Guan-Sheng Chen	and Its Interface System Ikuo Yamamoto and Miki Matusi, Naohiro Inagawa,
		ming-m wu, Guan-sheng Chen	Kenji Hachisuka, Futoshi Wada, and Akiko Hachisuka
		C4-5 14:00	D4-5 14:00
		O5009- Research on Life Cycle Affordability	WC5022- Body Turning Recording and Notification
		Management of Aeronautic Equipment	System for the Care of Bed Bound Patients
		Xiao-Cui Li, Wei Wang	Rong-Shue Hsiao, Zhenqiang Mi, Bo-Ru Yang, Lih-Jen Kau, Mekuanint Agegnehu Bitew, Tzu-Yu Li
		C4-6 14:15	D4-6 14:15
		O5010- Application of Taguchi Method to Improve	WC5029- An Intelligent RFID Health Monitoring
		Imbalance Filling of Multi-cavity Tooling During the	System
		Auto Locks Parts Injection Molding Wei-Tai Huang, Der-Ho Wu, Chia-Lun Tsai	Yeong-Lin Lai, Chih-Cheng Chen
		C4.7 = 14.20	D4-7 14:30
		C4-7 14:30 O5011- Application of the Solar Energy used in	
		Cooling System of Internal Vehicle	WA5002- Numerical Evaluation and Experimental Validation of Vascular Access Stenosis Estimation
		Wan-Yi Lu, Fa-Ta Tsai, Rwei-Ching Chang	Weiling Chen, Cheng Dann Kan and Rui-Hung Kao
		C4-8 14:45	D4-8 14:45
		O5013- Optimum Process Mean, Standard Deviation,	WA5007- Multivariate Adaptive Regression Splines
		and Specification Limits Settings Under the Burr	Based Prediction of Peak Expiratory Flow with
		Distribution	Spirometric Data Bramila Viiguana havan and Mahash Vaszbinathan
		Chung-Ho Chen and Chao-Yu Chou	Pramila Vijayaraghavan and Mahesh Veezhinathan
		C4-9 15:00	D4-9 15:00
		O5001- An Event-related Potential Study of Expertise	TC5007- Thermal Performance Evaluation of the
		Effects for Artistic Furniture Ching-Yi Wang, Ming-Huang Lin, and Shih-Kuen Cheng	Paper Honeycomb Board Used as Insulation Material Kanshu Kobayashi, Hiroshi Matsumoto
		C4-10 15:15	D4-10 15:15
		SO5001- Characteristics of Visual Fatigue under the	TC5018- Study on Sintering System of Calcium
		Effect of 3D Animation Yu-Shuo Chang, Kwong-Chung Tung, Ya-Hsin Hsueh	Barium Sulphoaluminate by XRD Quantitative Analysis
		ru-snuo Chung, Kwong-Chung rung, 10-fisin fisuen	Jun Chang, Xiaopeng Shang, Jiuye Zhao

		Room A (6F- Li)	Room B (6F- Boardroom)
1st	Oral	A5.	B5.
November		K. Nanotechnology	M. Innovation Management
(Sun.)	15:45	WB. Biomechanics	Min-Ren Yan, Chinese Culture University, Session
	17:45	SX. Recent Advances in Microtechnology	Chair
	1	SW. Recent Advances in Biomaterials	Ming-Der Yang, National Chung Hsing University
		Jian-Neng Wang, National Yunlin University of Science and Technology, Session Chair	Session Chair
		Ming Chang, Chung Yuan Christian University,	
		Session Chair	
		A5-1 15:45	B5-1 15:45
		WB5001- Double Closed-Loop Cascade Control for Lower Limb Exoskeleton with Series Elastic Actuator	M5003- Strategic Product Innovations and Dynamic Pricing Models in Oligopolistic Industrial Engine Market
		Yanhe Zhu, Tianjiao Zheng, Hongzhe Jin, Jixing Yang and Jie Zhao	Min-Ren Yan and Danh-Nhan Tran
		A5-2 16:00	B5-2 16:00
		WB5006- Stretched Exponential Function for	M5006- Do Peak/Slack Seasons Influence
		Quantitative Analysis of the Stress Relaxation Behavior of the Ankle Ligament Complex	Semiconductor Machine Outliers? a Back Propagation Neural Network Analysis
		Che-Yu Lin, Yio-Wha Shau, Chung-Li Wang,	Keng-Chieh Yang, Chia-Hui Huang, Po-Hong Shih
		Jiunn-Horng Kang	- · · ·
		A5-3 16:15	B5-3 16:15
		SX5003- All-Fiber Microfluidic Multimode Mach-Zehnder Interferometers as High Sensitivity	M5008- Five-force Analysis of Micro-scale Manufacture Using 3D Printing
		Refractive Index Sensors	Yi-Ping Chen and Ming-Der Yang
		Chien-Hsing Chen, Wei-Te Wu, Jian-Neng Wang	It I mg chen and ming Der Tang
		A5-4 16:30	B5-4 16:30
		SX5006- Magnetic Control of Fe3O4 Nanomaterial	M5010- A Study on Triple Button Line of Campus
		for Fat Ablation in Microchannel	Sports Facilities Management
		Ming Chang, Ming-Yi Chang, Pei Yu Chao, Jacque Lynn Gabayno	Tsu-Lin Yeh, Hsia-Hung Ou
		AE 5 16.45	DE 5 16.45
		A5-5 16:45	B5-5 16:45
		SX5007- Study and Design of Switch-based Memristor Technology Integration on Flexible Substrate	
		Jiaying Jian, Arnaud Vena, Honglong Chang, Brice Sorli, Fange Chang	
		A5.6 17.00	P5 (17.00
		A5-6 17:00 SW5007 Melecular Dynamics Simulation of the	B5-6 17:00
		SW5007- Molecular Dynamics Simulation of the Effect of Angle Variation on Water Permeability through Hourglass-Shaped Nanopores	
		Dai Tang, Longnan Li, Yeong-Eun Yoo, Daejoong Kim	
		A5-7 17:15	B5-7 17:15
		K5004- Improving Electrospinnability of	
		Alginate/PEO Solutions: Hydrolysis Effect of Alginate Polymer	
		Teboho Clement Mokhena, Nokwindla Valencia Jacobs, Adriaan Stephanus Luyt	
		A5-8 17:30	B5-8 17:30

		Room C (7F- Confucious)	Room D (7F- Mean)
1st	Oral	C5.	D5.
November	Session 5 15:45	G. Green Technology & Civil Engineering	SE. Intelligent System
(Sun.)	15:45	TA. Civil & Structure Engineering	SG. Recent Advances in Mechanism and Machine
	17:45	TB. Environmental Engineering O. Other Engineering and Technology Related	Design WF. Modeling, Simulation, Systems and Control
		Topics	Chaur-Luh Tsai, National Kaohsiung Marine
		Chiu-Jen Ku, Shantou University, Session Chair	University, Session Chair
		I-Jyh Wen, National Yunlin University of Science and Technology, Session Chair	Jie-Tong Zou, National Formosa University, Session Chair
		C5-1 15:45	D5-1 15:45
		TA5016- Singular Spectrum Analysis: a Solution for Modal Parameter Identification from	SE5001- The Development of Portable Intelligent Battery Management System with Adaptive
		Force-embedded Acceleration Data of Linear	Charging Method
		Dynamic Systems	Shih-Sung Lin, Chien-Wu Lan, Hsueh-Ying Liu,
		Chiu-Jen Ku, Li-Shu Chou	Lin-Huei Chen, Tien-Cheng Huang
		C5-2 16:00	D5-2 16:00
		TA5020- Failure Mode Analysis of CEI	SE5005- Design and Implementation of a
		(Concrete-Epoxy Interface) Subjected to Combined	
		Conditions of Sustained Loading and Temperature <i>Yoseok Jeong, Jaeha Lee,</i>	Mode Controller for a Synchronous Reluctance Motor Speed Drive
		WooSeok Kim, Geunhyung Min	Huann-Keng Chiang, Wen-Bin Lin
		C5-3 16:15	D5-3 16:15
		TB5020- Lean Management System with Game theory in Asphalt Concrete Pavement	SE5009- The Application of Ultrasonic Indoor Positioning System to Indoor Navigation of
		Min-Che Ho, Kawai Kenji, Jyh-Dong Lin	Omni-directional Mobile Robot
		, , , , , , , , , , , , , , , , , , ,	Jie-Tong Zou, Chi-Yi Wang
		C5-4 16:30	D5-4 16:30
		TA5022- Research on Highway Construction	SE5010- The Development of Tilt-Rotor Unmanned
		Project Investment Risk Evaluation Based on BP Neural Network	Aerial Vehicle
		Li Ma, Shi-Han Bi and Yi-Ming Chang	Jie-Tong Zou, Pan,Zheng-Yan
		C5-5 16:45	D5-5 16:45
		O5004- The Assessment of the Application of	WF5003- The Insurance Behavior Model of
		Intelligent Disaster Equipment in Historic	Workers in the Container Terminal Operation
		Buildings	Context
		I-Jyh Wen, Hsu-Tang Lin	Chaur-Luh Tsai
		C5-6 17:00	D5-6 17:00
		G5007- High-Efficient Energy Harvester in	WF5005- Design of a Golf Swing Injury Detection
		Establishing Self-Support Supply System Kanjuro Makihara	and Evaluation Open Service Platform with Ontology-oriented Clustering Case-based
			Reasoning Mechanism
			Hao-Hsiang Ku
		C5-7 17:15	D5-7 17:15
			SG5012- Hand Tool Handle Design based on
			Human-hand Contour Measurements
			Ching-Yi Wang
		C5-8 17:30	D5-8 17:30