Session A1

Date	Time	Room A B. Mechatronic and Robotics Engineering, SSA. Advances in Marine Equipment, Facility, and Device Prof. Hyeung-Sik Choi, Session Chair
28 th Oct. (Sat.)	09:00~09:15	B7001 Isocline Performance analysis of Rocker-Finger Gripper's Ground Link Yun-Ju Chuang, Tsing-Tshih Tsung, Ho Chang, Yin-Tung Sun
	09:15~09:30	B7004 Investigation of a Spring Flexible Gripper Chun-Lun Shen, Yun-Ju Chuang, Lee-Long Han, Tsing-Tshih Tsung, Ho Chang
	09:30~09:45	SSA7002 Design and Experiment of Navigation System for Hybrid Underwater Glider Sang-ki Jeong, Hyeung-Sik Choi, Jin-Il Kang, Ji-Youn Oh, Seo-Kang Kim, Thieu Quang Minh Nhat
	09:45~10:00	SSA7003 Experimental Study of Dynamic Stability of Underwater Vehicle-Manipulator System using Zero Moment Point Jin-Il Kang, Hyeung-Sik Choi, Mai The Vu, Nguyen Ngoc Duc, Dae-Hyeong Ji, and Joon-Young Kim
	10:00~10:15	SSA7004 Energy Efficient Trajectory Design for the Underwater Vehicle with Bounded Inputs Using the Global Optimal Sliding-Mode Control Mai The Vu, Hyeung-Sik Choi, Sang-Ki Jeong, Dong-Wook Jung, and Hyun-Joong Son

Session B1

Date	Time	Room B A. Materials Engineering, O. Other Engineering and Technology related Topics, Invited Speech Prof. Tao-Hsing Chen, Session Chair
28 th Oct. (Sat.)	09:00~09:15	A7004 Fabrication of Attapulgite-Ag2WO4 Nanocomposite with Enhanced Visible-light Photocatalytic Activity Yu-Xiang Hua, Xiao-Heng Liu
	09:15~09:30	A7005 The Effect of Additional Layer between Liner and PMMA on Reducing Crack of Cement Mantle Hip Joint J Jamari, Han Ay Lie, Eko Saputra, Iwan Budiwan Anwar, Emile van der Heide
	09:30~09:45	O7006 Safety Analysis for Integrated Modular Avionics Based on Blueprints Jiayun Chu, Xiaohong Bao, Tingdi Zhao, Fuchun ren
	09:45~10:15	Invited Speech Topic. Carbonhydrate Polymer Lubrication with Stearic Acid Shih-Chen Shi, Yao-Qing Peng Speaker. Prof. Shih-Chen Shi, National Cheng Kung University

Session C1

Date	Time	Room C G. Green Technology & Civil Engineering, WB. Biomechanics Prof. Wen-Pei Sung, Session Chair Prof. Dong Ha Lee, Session Chair
28 th Oct. (Sat.)	09:00~09:15	G7008 Land Cover Classification of Landsat OLI Imagery Based on Optimum Index Factor Tri Dev Acharya, In Tae Yang and Dong Ha Lee
	09:15~09:30	G7013 Strength Characteristics of Artificial Organic Soils Stabilized with Copolymer Stabilizer Chia-Wen Law, Felix Ngee-Leh Ling, Boon-Khiang Ng
	09:30~09:45	G7014 Developing Neutral Equilibrium Device as Dynamic Virtual Piers for Emergency Relief Bridge Ming-Hsiang Shih, Wen-Pei Sung, Yu-Cheng Wang
	09:45~10:00	G7017 Affectivity of Biological Cement's Application to Sandy Soil for Geotechnical Engineering Wen-Yi Hung, Maytri Handayani, Chia-Sheng Hsu, Ssu-Ching Chen, Emma Yuliani
	10:00~10:15	WB7009 Open Source Software for Post-Match Spatio-Temporal Performance Analysis of Soccer Players Tyler Cross, Aneesh Chand

Session D1

Date	Time	Room D O. Other Engineering and Technology related Topics, SJ. Recent Advances in Green Innovative Materials and Civil Engineering, SQ. Innovations in Architecture, Engineering and Construction Prof. Kimio Oguchi, Session Chair Prof. Shang-Yuan Chen, Session Chair
28 th Oct. (Sat.)	09:00~09:15	O7007 Simulation and Motion Analysis of Deepwater Manifold Lifting Chen Zhiwei, Zhao Tingdi, Jiao Jian, Mao Dongfeng
	09:15~09:30	O7008 Human Reliability Research in Numerical Control Machining Based on Optimized Holistic Decision Tree Lu Chen, Run-Jiang Zhao, Jian Jiao, Yan-Bo Zhang
	09:30~09:45	O7011 Optimum Distance to Voice Navigate in Walking Support System for Visually Impaired Akinari Ohfuji, Yoshihiro Taniura, Dai Hanawa, Kimio Oguchi
	09:45~10:00	
	10:00~10:15	SQ7001 Green Building Information Modeling: Integrated Design and Analysis Decision-Making Procedures for Net Zero Energy Buildings Shang-Yuan Chen

Session E1

Date	Time	Room E F. Computer & Information Engineering Dr. Chunghui Kuo, Session Chair Prof. Yen-Ching Chang, Session Chair
28 th Oct. (Sat.)	09:00~09:15	F7007 The Novel Cloud Application Technology with Virtual Platform Ying-Chuan Chen, Shuen-Tai Wang, Yi-Lang Tsai
	09:15~09:30	F7019 Real-Time Big Data Analytics for Hard Drive Preventive Maintenance Chuan-Jun Su, Shi-Feng Huang
	09:30~09:45	F7028 A Flexible Contrast Enhancement Method with Visual Effects and Brightness Preservation: Histogram Planting Yen-Ching Chang
	09:45~10:00	F7035 Benchmarking Handheld GUI: Smoothness QoE Ying-Dar Lin, Edward TH. Chu, Chien-Ling Wen, Yuan-Cheng Lai
	10:00~10:15	F7043 Big Data Analytics for Enrichment of Rural Area Content Tourism in Okhotsk Sub-Prefecture of Japan Ali Bakdur, Fumito Masui, Michal Ptaszynski

Session A2

Date	Time	Room A J. Mechanical Engineering, SK. Mechanism and Machine Design Prof. Hsiang-Chen Hsu, Session Chair Prof. Wan-Tsun Tseng, Session Chair
28 th Oct. (Sat.)	10:30~10:45	J7002 Design and Fabrication on Wearable Medical Device for Initial Osteoarthritis (OA) Detection Hsiang-Chen Hsu, Jia-Jung Wang, Chin-Chuan Tsai, Yu-Jung Huang and Lih-Shan Chen
	10:45~11:00	J7003 Experimental and Finite Element Analysis on the Behavior of Locally Dented Circular Tubes under Cyclic Bending with Different Dent Depths and Diameter-to-thickness Ratios Kuo-Long Lee, Shung-Ru Wu, Wen-Fung Pan
	11:00~11:15	J7006 The Double Balance Lever of Torque Standard Machine with 5 KNm Calibration Capability in CMS Chiu-Hsien Chen and Sheau-shi Pan
	11:15~11:30	J7023 Multi-Faults Diagnosis for Vibratory Characterization of Rotating Machinery through Transient Signal and Wavelet Synchrosqueezing Transform Bernard Xavier Tchomeni, Alfayo Alugongo
	11:30~11:45	J7024 Numerical and Experimental Diagnosis of Complex Rotor System by Time-Frequency Techniques Bernard Xavier Tchomeni, Alfayo Alugongo
	11:45~12:00	SK7001 Determining the Rotor Induced Voltage of a Novel Three-phase Induction Motor with Wound Rotor Wan-Tsun Tseng, Bin-Fong Gau, Jun-Hao Sung, You-Long Xie

Session B2

Date	Time	Room B L. Environmental, Food, Health Science & Technology, TB. Environmental Engineering Prof. Ikuo Yamamoto, Session Chair
28 th Oct. (Sat.)	10:30~10:45	L7007 Swimming Motion: Butterfly Analysis Based on a Mobile Device Eric C. Shiao, Yi-Fan Chang, Tung-Wu Lu
	10:45~11:00	L7008 Wrist Rehabilitation Robotic System and Its Effectiveness for Hemiplegic Patients Ikuo Yamamoto, Miki Matsui, Toshio Higashi, Naoki Iso, Murray Lawn, Kenji Hachisuka, Akiko Hachisuka
	11:00~11:15	L7009 Organic Food Consumption Across Taiwan Strait: Self Congruity, Attitude, and Purchase Intention under the Moderating Role of Inertia Tsai-Fa Yen
	11:15~11:30	
	11:30~11:45	
	11:45~12:00	TB7008 Advance Innovative Approach for Analysis of Interrelationship Among Water Quality Variables and Vegetation Indices in Energy Limited and Water Limited Regions Muhammad Mazhar Iqbal, Muhammad Shoaib, Jung Lyul Lee

Session C2

Date	Time	Room C N. Intelligent Computing, TA. Civil & Structure Engineering Prof. Koichiro Ishikawa, Session Chair
	10:30~10:45	N7005 Combining Multiple Predictors for Electricity Demand Forecast Peng-Yeng Yin, Ching-Hui Chao
	10:45~11:00	TA7003 Earthquake Response Control of Double Layer Truss Walls by means of Innovative Fuse Connections Koichiro Ishikawa
	11:00~11:15	TA7005 Integrating Simulation and Artificial Bee Colony for Planning Mass Evacuation Routes of Public Buildings Hsin-Yun Lee, Hao-Hsi Tseng, Meng-Cong Zheng, Pei-Ying Li
28 th Oct. (Sat.)	11:15~11:30	TA7013 Assessment of the Traffic-Induced Vibrations in Ozanam Building of Adamson University Earl Shadd D. Araña, Rae Cecil N. Acedera, Leira Liz A. Bisain, John Elmer C. Guillermo, and Albert A. Griño, Jr.
	11:30~11:45	TA7016 Failure Contour for Cyclic Shear Behavior Evaluation on the Marine Silty Sand Jin Man Kim, Su Won Son, Min Jae Ko, Pouyan Bagheri, In Gu Kang, Jong Chan Yoon, Geon Young Moon, Dong Hun Lee
	11:45~12:00	TA7017 Exploring Association Rules of Work Activities for Producing Precast Components in Taiwan Construction Industry Jieh-Haur Chen, Sheng-Kuo Lin and Hsing-Wei Tai

Session D2

Date	Time	Room D E. Chemical & Biomedical Engineering, SW. Precison Systems and Biomedical Technology, WA. Biocomputing and Bioinformatics Prof. Moon G. Lee, Session Chair
28 th Oct. (Sat.)	10:30~10:45	E7003 Effects of Customized Exercise Rehabilitation Device on Dynamic Postural Balance in Patients with Scoliosis Ji-Yong Jung, Jung-Ja Kim
	10:45~11:00	SW7001 Optimal Microneedle Design for Drug Delivery Based on Insertion Force Experiments with Variable Geometry Bummo Ahn
	11:00~11:15	SW7002 Urinary Incontinence Treatment Tension Sling Yeongjin Kim, Jeongyoon Yi, and Bummo Ahn
	11:15~11:30	SW7004 Development of Vibrotactile Cradle for Smart Cell-phone Representing Spatial and Directional Cues Gi-Hun Yang, Yeonsub Jin, and Sungchul Kang
	11:30~11:45	SW7008 Design and Experiment of Noncontact Eddy Current Damper in Air Bearing Guided Linear Motion System Eunho Sung, Yongho Jeon, Young-Man Choi, Kihyun Kim, Moon G. Lee
	11:45~12:00	WA7003 Optimal Template Mask Search for Multiple DNA Microarray Images Analysis JaeHong Min, Jong-Dae Kim, Yu-Seop Kim, Chan-Young Park, Ji-Hyoung Lee and Hye-Jeong Song

Session E2

Date	Time	Room E C. Electrical & Electronic Engineering, SE. Data Driven Modelling and Soft Computing, SF. Recent Innovations and Smart Applications in Wireless Network, SR. Information and Communications Technological Convergence and Applications Dr. Xiangyang Ye, Session Chair Prof. Huan-Liang Tsai, Session Chair
28 th Oct. (Sat.)	10:30~10:45	C7022 Experiment and CFD Simulation of Exhaust Tube in High-Voltage Circuit Breaker Xiangyang Ye, Francesco Pisu, Stephan Grob, Mahesh Dhotre, Javier Mantilla
	10:45~11:00	C7027 Development of Arduino-Based Photovoltaic (PV) Supervision System Using MATLAB/Simulink Yu-Hui Lian, Chih-Han Huang, and Huan-Liang Tsai
	11:00~11:15	SE7005 Proposal of a State Estimation Model of Diffusion Phenomenon Using Twitter Information Kohei Otake, Takashi Namatame
	11:15~11:30	SF7006 A Reconfigurable Ring-Tree Topology for Bluetooth Sensor Networks Chih-Min Yu, Chun-Chyuan Chen and Jun-You Huang
	11:30~11:45	SR7001 Risk Assessment for Global Supplier Selection Using Text Mining Chuan-Jun Su, Yin-An Chen
	11:45~12:00	SR7006 An Interleaved-Sleeping-Listening Algorithm for Power-Saving Scheduling in Mobile Networks Riyanto Jayadi, Liang-Chun Chen, Yuan-Cheng Lai

Session A3

Date	Time	Room A SS. Healthcare Information and Management, WC. Health Care Technology Prof. Tin-Kan Hung, Session Chair
29 th Oct. (Sun.)	09:00~09:15	SS7002 Measurement of Respiration Rate and Depth through Difference in Temperature between Skin Surface and Nostril by Using Thermal Image Hieyong Jeong, Tianyi Wang, Takafumi Ohno, and Yuko Ohno
	09:15~09:30	SS7004 Noninvasive Measurement for Human Hand Behavior in Grasping Task with Prehensile Pressure Sensor Tianyi Wang, Hieyong Jeong, Takafumi Ohno, Soichiro Watanabe, Yuko Ohno
	09:30~09:45	SS7008 Characterization of Retinal Fundus Opalescent Sheen in the Retinal Nerve Fiber Layer in Relation to Other Visual Assessment Parameters in a 16-year Old Teenage Group in Taiwan Li-Chien Yang, David Pei-Cheng Lin, Han-Hsin Chang, Kwong-Chung Tung
	09:45~10:00	SS7009 Analyzing the Medical Factors Influencing the Rate of Emergency Department Revisits of First-time Patients within 72 Hours of Hospital Discharge: An Empirical Study Using Probit and Logit Models Li-Chun Huang, Hsien-Chang Li, Ya-Wen Huang, Ming-Jang Weng
	10:00~10:15	WC7007 Low Socioeconomic Status and Visual Health Behaviors as Factors in Childhood Myopia Development Cheng-Jong Lee, Yu-Ting Hsiao, Philip M. M. Sced, Shi-Huang Lee

Session B3

Date	Time	Room B J. Mechanical Engineering, O. Other Engineering and Technology related Topics, SZ. Recent Advances in Microtechnology, Prof. Minvydas K. Ragulskis, Session Chair Prof. Dyi-Cheng Chen, Session Chair
29 th Oct. (Sun.)	09:00~09:15	O7012 Research on Coalescence and Probabilistic Failure Physics Modeling of Coplanar Semiellipse Cracks Sufen Li, Yufeng Sun, Weiwei Hu, Zhaoxia Liu
	09:15~09:30	O7013 Improving the Overall Passenger Service Quality of the International Airport: Through Developing Innovative Service to Satisfy Tourist's Potential Travel Demands Kuang Li Yang, D. Y. Sha, Yung-Tsan Jou
	09:30~09:45	SZ7006 Micro-nano 3D Printing of Electronically Conductive Polymers as a New Process for Achieving Higher Electronic Conductivities Katsumi Yamada, Yuri Magori, Junji Sone
	09:45~10:00	J7017 The Study of Interior Ballistic by Nonlinear Finite Element Method for the Polygonal Gun Barrel of 9mm Pistol Shigan Deng, Tsung-Han Lin
	10:00~10:15	SM7001 Study of the Membrane Restrictors on the Hydrostatic Bearing Dyi-Cheng Chen, Ming-Fei Chen, Chih-Hsuan Pan and Jun-Yan Pan

Session C3

Date	Time	Room C ST. Control System and Applications, SU. Intelligent System and Internet, WF. Modelling, Simulation, Systems and Control Prof. Kuo-Lan Su, Session Chair Dr. Jr. Hung Guo, Session Chair
	09:00~09:15	SU7001 Development of a SLAM Based Automated Guided Vehicle Kuo-Lan Su, Jian-Fu Weng, Jr-Hung Guo
	09:15~09:30	ST7003 Design a Mobile Based Robot Arm with the Image System Kuo-Lan Su, Ji-Hua Li, Chien-Ming Hung
29 th Oct.	09:30~09:45	ST7006 Internet of Things Technology Applications in the Advanced Planning System Jr. Hung Guo
(Sun.)	09:45~10:00	WF7001 Proposal of a Method for Formulating Warm-Up Exercises for Logistics Workers by Musculoskeletal simulation Soichiro Watanabe, Hieyong Jeong, Daisuke Furushima, Nao Sonoda, Tianyi Wang, Yuko Ohno
	10:00~10:15	WF7002 Simulation and Visualization of Brain Herniation Caused by Subdural Hematoma Using Finite-Element Modeling Ke-Chun Huang, Furen Xiao, I-Jen Chiang, Yi-Long Chen, Yi-Hsin Tsai, Jau-Min Wong, Chun-Chih Liao

Session D3

Date	Time	Room D SI. Recent Innovations and Applications in Multimedia, SX. Mathematical Modeling of Engineering and System, SSD. Intelligent Systems and Control Prof. Meng-Han Yang, Session Chair Prof. Yung-Yue Chen, Session Chair
29 th Oct. (Sun.)	09:00~09:15	SI7007 Design of a Fuzzy PD+I Controller for Path Following of mBot System Chin-Tan Lee, Bo-Rui Su, Win-Der Lee
	09:15~09:30	SSD7014 Intelligent Control and Performance Evaluation of a Novel Precise Positioning Stage Guang-qing Lu, Audrius Čereška, Giedrius Augustinavičius, Rimas Maskeliunas, Minvydas Ragulskis
	09:30~09:45	SX7009 Data Mining the Co-Morbid Associations Between Dementia and Various Kinds of Illnesses Using a Medicine Database Pei Hua Chen, Fu-Yi Yang, Meng-Han Yang
	09:45~10:00	SX7010 Using Methods of Time Series Data Mining to Recognize the Influences of Environmental Factors on Epileptic Seizures Jhe-Nan Lin, Fu-Yi Yang, Meng-Han Yang
	10:00~10:15	SX7012 A Complete Modeling for Fish Robots with Actuators Yung-Yue Chen

Session A4

Date	Time	Room A SA. Recent Advances on Dynamics and Vibration Engineering Prof. Buntara S. Gan, Session Chair Prof. Tai-Ping Chang, Session Chair
	10:30~10:45	SA7001 Chaotic Motion of Fluid-Loaded Double-Walled Carbon Nanotubes Tai-Ping Chang
	10:45~11:00	SA7002 Chaotic Control of Snap Systems by Control of Amplitude, Velocity and Acceleration Tai-Ping Chang
29 th Oct.	11:00~11:15	SA7006 Semi Analytical Solution of a Rigid Pavement under a Moving Load on a Kerr Foundation Model Sofia W. Alisjahbana, Irene Alisjahbana, Shota Kiryu, Buntara S. Gan
(Sun.)	11:15~11:30	SA7008 Analysis and Reduction of Wobble Vibration for Motorcycles Yaojung Shiao, Po-Feng Chiang
	11:30~11:45	SA7013 Seismic Evaluation and Collapse Prediction of RC Moment Frame Structures by Using Energy Balance Concept Wen-Cheng Liao, Yu-Heng Chiang-Hsieh, Subhash C. Goel
	11:45~12:00	SA7017 Analytical Solution for Natural Frequency of Restrained Torsional Vibration of Composite Box Girders with Corrugated Steel Webs Ruijuan Jiang, Lingzhi Xie, Jian An, Tianhua Xu

Session B4

Date	Time	Room B D. Optical Engineering, M. Innovation Management, SD. Recent Development on Polymer, Polymer Composites and Polymer Application SG. Recent Innovations in Sensors, Prof. Huei-Zhen Gu, Session Chair Prof. Jyh-Cheng Yu, Session Chair
	10:30~10:45	D7001 The High Precision Compact Laser Interferometer Used in Rockwell Hardness Standards System in CMS Sheau-shi Pan and Chiu-Hsien Chen
	10:45~11:00	D7002 Optical design of High Illuminance Reading Panel Using Edge-lit LED Light Guide Plate Jyh-Cheng Yu and Chaio-Kai Chang
	11:00~11:15	M7004 A Research on Teaching Innovative Management of Teaching Assessment-Using IT to Implement Students' On-Line Peer Review of Learning Outcomes through Rubric Huei-Zhen Gu, Chien-Wei Ku
29 th Oct. (Sun.)	11:15~11:30	M7006 Evaluating Key Factors Affecting Knowledge Exchange in Social Media Community Li-Wen Chuang, Shu-Ping Chiu
	11:30~11:45	M7010 Opportunity Recognition for Small Businesses in Medical Tourism in Taiwan Ying-Hsun Hung, Jung Ma, Jerome Chih-Lung Chou, Ching-pei Lin
	11:45~12:00	SG7014 Image Sensor Based Fast Industrial Robot Positioning System for Assembly Implementation Chyi-Yeu Lin, Le Thai Son, Yu-Lun Chang, Ya-Shiun Shiue
	12:00~12:15	SD7001 Mechanical Properties of Glass Bead-modified Polymer Composite Tsung-Han Hsieh, Ming-Yuan Shen, Yau-Shian Huang, Qi-Qian He, Hsuan-Chih Chen

Session C4

Date	Time	Room C I. Control Engineering, SSD. Intelligent Systems and Control Prof. Chih-Min Lin, Session Chair Prof. Yung-Yao Chen, Session Chair
	10:30~10:45	I7002 XML-Based Modeling Method of Phased-mission Systems Subject to Probabilistic Common Cause Failures Huan Wu, Ting-Di Zhao, Jian Jiao
	10:45~11:00	I7004 Constant Voltage/Current with Slowly Rising Control for High Power DC-DC Converter Based on FPGA Digital Control Cheng-Shion Shieh
29 th Oct.	11:00~11:15	I7007 Improved Anticipatory Iterative Learning Control System for Positioning Accuracy by Particle Swarm Optimization Yi-Cheng Huang, Shih-Wen Hsu and Ming-You Ma
(Sun.)	11:15~11:30	SSD7002 Multidimensional Classifier Design using Fuzzy Brain Emotional Learning Neural Network Jing Zhao, Chih-Min Lin
	11:30~11:45	SSD7004 Multiple Exposure Fusion Based on Sharpness-Controllable Fuzzy Feedback Framework Yung-Yao Chen, Chih-Hsien Hsia, and Chiao-Wen Lu
	11:45~12:00	SSD7009 Research on Massive ECG Data in XGBoost Hao Li, Yan Kang, Bin Pu and Chenyang Lu

Poster I

Date	Time	No.	4F Hallway
		1	A7002 Laser Markings on Surface and Interior of Transparent Materials Using Nanosecond Pulsed Laser Kang Chao, Hsing-Cheng Yu, and Donyau Chiang
		2	A7007 Mechanical Properties of Metal/Ceramic Composites Predicted by Multiscale Simulation Cheng-Kuang Lee, Tien-Jung Huang, Chun-Mu Chen
		3	A7012 Antiwear and Antiimpact Analyses of a Multilayer Thin Film Die and Application in the Extrusion Forging Forming of Phillips Screw Punches Tung-Sheng Yang, Yin-Yu Chang, Sheng-Yi Chang
		4	
	09:00 09:50	5	B7003 Development of a Single-nozzle-based FDM Printer for Multi-material Printing Cheng-Tiao Hsieh
28 th Oct. (Sat.)		6	B7005 Design of a Robot Arm with Safety Consideration Jin-Siang Shaw and Sheng-Kai Lai
		7	C7002 Hiding Stealth CDMA Signals in Public BPSK Channel for Communications Secrecy Wen-Zong Zhang, Chih-Ta Yen, Jen-Fa Huang
		8	C7007 Fabrication of (111)-Silicon Nanowire Photodetector for Retinal Prostheses Using Light-Controlled Current Stimulation Yeok In Choi, Hyoungho Ko, and Sangmin Lee
		9	C7013 Secure Integrated Circuit with Physical Attack Detection using Reconfigurable Top Metal Shield Yeongjin Mun, Hyungseup Kim, Youngwoon Ko, Byeoncheol Lee, Dong Kyue Kim, Byong-Deok Choi, Ji-Hoon Kim and Hyoungho Ko
		10	C7014 Secure Circuit with Optical Energy Harvesting using On-chip Photodiode Against Unpowered Physical Attacks Hyungseup Kim, Youngwoon Ko, Yeongjin Mun, Byeoncheol Lee, Dong Kyue Kim, Byong-Deok Choi, Ji-Hoon Kim and Hyoungho Ko

Poster I (Continued)

Date	Time	No.	4F Hallway	
		11	C7020 Touch Panel Design Using Mutual Capacitive Method with Different Patterns of Sensing and Driving Electrodes Jium-Ming Lin, Ching-Hsuan Yen and Mung-Wei Lin	
			12	SB7002 Hydroxypropyl Methylcellulose Phthalate as a Corrosion Inhibitor for High-Speed Steel in Acidic Medium Shih-Chen Shi, Chieh-Chang Su
		13		
	09:00 09:50	14		
28 th Oct.		15	C7030 Building of the Parameters for Battery Model with Electrochemical Impedance Spectroscopy Van-Tsai Liu, Zong-Da Kan, Tzu-Lun Tseng	
(Sat.)		16	E7002 The Development of Polycaprolactone (PCL) Micro-carriers with an Emulsification Module by Supersonic Spraying Ying-Chieh Lin, Heng-Sheng Lin, Zheng-Han Hong, Zong-Hsin Liu, Cheng-Tang Pan	
		17	E7004 Adhesive Optical BCI System with Multiple Pulse Oximetry Module Array Sang-Ho Han, Mun-Ho Ryu	
		-	18	E7005 Human Joint Angle Estimation with Multiple-Strip e-Textile Stretching Sensor Sang-Ho Han, Mun-Ho Ryu, Je-Nam Kim
		19	E7006 Promoting the Expression of Antibody in E. coli by Antibody Database Shuhei Hattori, Teppei Niide, Hikaru Nakazawa, Ayumi Honda, Mitsuo Umetsu	
		20	E7007 Can all Bispecific Antibodies Activate T-lymphocyte Aruto Sugiyama, Manon Wayere, Hikaru Nakazawa, Mitsuo Umetsu and Izumi Kumagai	

Poster I (Continued)

Date	Time	No.	4F Hallway
	09:00 09:50	21	F7008 Prediction of the Concentration of PM10 using a Deep Neural Network Byoung-Doo Oh, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim
		22	F7011 Automatic Gazetteer Generation Methods using Recurrent Neural Network and Conditional Random Fields Byeong-Cheol Jo, Hye-Jeong Song, Chan-Young Park, Jong-Dae Kim, Yu-Seop Kim
		23	F7012 System Architecture for Integrating Large-scale WSNs and Cloud Computing Tae-Yoon Kim, Jung-Hyok Kwon, and Eui-Jik Kim
		24	F7013 Energy Efficient Medium Access Control based on Adaptive Priority in Wireless Body Sensor Networks Dongwan Kim, Daehee Kim, Jung-Hyok Kwon, and Eui-Jik Kim
28 th Oct. (Sat.)		25	F7014 Integrated Dataset-based Outlier Detection using Cluster Centroid for Healthcare System Sol-Bee Lee, Jung-Hyok Kwon and Eui-Jik Kim
		26	F7015 Resource Update Mechanism using Update Assistant for Wireless Sensor Networks Sungmo Kim, Jung-Hyok Kwon, and Eui-Jik Kim
		27	F7016 Broker-based Priority Control for Emergency Events of IoT Applications Hwi-Ho Lee, Jung-Hyok Kwon, and Eui-Jik Kim
		28	F7017 Parameter Characterization-based Sensor Management for Internet of Things Jung-Hyok Kwon, Minki Cha, Ho-Young Kim, and Eui-Jik Kim
		29	F7018 Adaptive Data Acquisition using Unmanned Aerial Vehicle in Wireless Sensor Networks Jung-Hyok Kwon, Hyo Hyun Choi, and Eui-Jik Kim
		30	

Poster I (Continued)

Poster I (Co	Time	No.	4F Hallway
	31 32 33	31	F7026 Area-Efficient Syndrome Calculation for Reed-Solomon Decoding YoungJoo Lee, In-Cheol Park, Bang Chul Jung and Hoyoung Yoo
		32	F7030 SHVC Tile-based 360 Video Streaming for Mobile VR Jang-Woo Son, Won Yeol Oh, Dae Hee Min, Seon Dae Kim, Eun-Seok Ryu
		34	F7038 Bringing Augmented Reality into Nursing Education: A Pilot Study Hsin-Hsin Lin
28 th Oct.	09:00 09:50	35	Provides Transfer From the Adoption of Wear Sensing or Image Sensing Devices for Applications of Body Action and Hand Gesture Recognition of the Aged or the Disabled Person Ing-Jr Ding, Rui-Zhi Lin and Zong-Yi Lin
(Sat.)		36	F7046 A Hybrid Data Mining Approach for Cardiovascular Disease Detection in Traditional Chinese Medicine Chun-Hui Wu, Ta-Cheng Chen, Yih-Her Yan
		37	
		38	G7006 Photoelectrochemical Biofuel Cells for Electric Generation and Hydrogen Production Chun-Ting Liu, Bo-Ching He, Guo-Dung Chen, Ting-Ting Chen
		39	G7007 Development of a Mobile Platform for Indoor Geomagnetic Positioning Huang He, Kun Chang, Wei Li, Dong Ha Lee, and Tri Dev Acharya
		40	G7010 Determination of Reference Height for Tidal Bench Mark using GPS Buoy Observations Kyung Wan Yoo, In Tae Yang, Ghungcheol Kim and Dong Ha Lee

Poster II

Date	Time	No.	4F Hallway	
		2	G7011 Development of Investigation Technique for Real-time Nonpoint Pollution Source using Open Application Programming Interface Kwan Sik Min, Dong Ha Lee	
			H7001 A Deep Learning-based Method for Automatic Digital Recognition in Industrial Panel Chien-Hao Tseng, Lun-Chi Chen, Jyh-Horng Wu, Fang-Pang Lin	
		3	J7001 Dynamic Analysis of a Slider-Crank Mechanism with Two Sliders and Revolute Clearance Joints Ngoc-Thai Huynh, Shyh-Chour Huang, Thanh-Phong Dao	
	10:00 10:50	4	J7004 Improved Stator Teeth Shape Design of Cogging Torque Reduction for Six-Phase Permanent Magnet Brushless Electric Machine Li-Jhen Chen, Hsing-Cheng Yu, and Cheng-Kai Lin	
28 th Oct.		5	J7005 Effect of Residual Shaft Bow on the Dynamic Analysis of a Double-stage Geared Rotor-bearing System with Translational Motion due to Shaft Deformation Ying-Chung Chen	
(Sat.)		6	J7008 An Integrated Numerical and Experimental Investigation on CPAP Blower Chien-Chung Jeng, Yen-Hsun Lin, Sheam-Chyun Lin, and Che-Wei Chang	
		7	J7009 Integrated Study on Aerodynamic and Acoustic Characteristics of the Vaneaxial Fan Sheam-Chyun Lin, Yu-Cheng Chen, Wen-Chi Yen, Fu-Yin Wang, Hung-Cheng Yen, Yung-Jen Cheng	
		8	8	J7010 Investigation of Helmholtz Resonator Applied on Forward-Curved Centrifugal Fan Sheam-Chyun Lin, Yu-Cheng Chen, Pin-Shiuan Wang, Fu-Yin Wang, Hung-Cheng Yen
		9	J7011 Numerical and Experimental Study for a Water-Driven Fan Ming-Chiou Shen, Sheam-Chyun Lin, Chien-Kai Lin, Hung-Cheng Yen, Chun-Hsiang Yang	
		•	10	J7016 Numerical Study of the Burner Parameters on the Thermal Field in a Sulfur Recovery Unit Thermal Reactor Chun-Lang Yeh

Poster II (Continued)

Date	Time	No.	4F Hallway
	10:00 10:50		J7018 Experimeantal Study of Adiabatic Two-Phase Flow in Double Narrow Rectangular Channels under Vibration Conditions Yu-Hsien Chang, Shao-Wen Chen, Min-Lun Chai, Hsiao-Jou Lin, Jin-Der Lee, Jong-Rong Wang, Chunkuan Shih
		12	J7020 The Systematic Design of Cam-Linkage Polishing Devices With Double-Circle Polishing Traces Part I: The Innovative Design Long-Chang Hsieh, Tzu-Hsia Chen
		13	J7021 The Systematic Design of Cam-Linkage Polishing Devices With Double-Circle Polishing Traces Part II: The kinematic Design and Prototype Verification Long-Chang Hsieh, Tzu-Hsia Chen
		14	J7022 New Design of Grab Mechanism in Plastic Glove Machine Wei-Chun Hsu, Ming-Jin Jiang, Gui-Liang Liu
28 th Oct.		15	J7026 A Study on the Derailment of Safety of Rolling Stock due to Cyclical Crosswind Hoon-Hee Han, Jun-Woo Kim, Jeong-Seo Koo, Jae-Seok Shim
(Sat.)		16	K7003 Automatic Calibration System for the Counting Efficiency of Liquid-borne Nanoparticle Counters Han-Fu Weng, Sheng-Hann Wang
		17	L7002 Molecular Characterization, Overexpression and Comparison of Esterases from Moderately Thermophilic and Mesophilic Bacteria Yu-Pei Chen, Shu-Shan Liang, Ing-Er Hwang, Mei-Chih Chien, Guey-Horng Wang and Li-Ling Liaw
		18	L7003 Development and Evaluation of Shoes Type Walking Assistive Device for Visually Impaired Person Chang-Min Yang, Ji-Yong Jung, Jung-Ja Kim
		19	
		20	M7002 Study on Relationship Between Project Management and Organizational Efficacy in Nonprofit Organizations I-Chan Kao

Poster II (Continued)

Date Date	Time	No.	4F Hallway
		21	N7002 A Generalized Museum Visitor Routing Problem with the Consideration of Preference and Congestion for Multiple Groups Yi-Chih Hsieh
		22	N7003 Modified Viterbi Scoring Algorithm For HMM-based Speech Recognition Jihyuck Jo, Han-Gyu Kim, In-Cheol Park, Bang Chul Jung and Hoyoung Yoo
		23	O7004 Study on Adult Career Planning on Adult Education Program and Assessment of Adaptive Design Model I-Chan Kao
	10:00 10:50	24	O7005 Study on Elderly Learners' needs and Obstacles in Network Learning by "3C products" I-Chan Kao
28 th Oct.		25	O7010 Advanced Technique for In-line Measurement of Critical Dimension by Transmission Small Angle X-ray Scattering Guo-Dung Chen, Chun-Ting Liu, Bo-Ching He
(Sat.)		26	O7015 A Method to Detect Abnormal GPS Satellite using Ionospheric Delay Measurements Kwang-Ho Choi, Joon-Hoo Lim, Hyung-Keun Lee
		27	SA7004 Acute Effects of Sling Exercise Recovery with Whole body Vibration Resting Muscle Function and Blood of Lactate Jh-Hwan Oh, Tae-Kyu Kwon
		28	
		29	SA7010 Nonlinear Behavior Analysis of Double-Clamped Nano-Beam with Casimir and van der Waals Effects Chin-Chia Liu
		30	SA7014 Antiknock Performance Evaluation of Slabs of Concrete-faced Rockfill Dams Subjected to Strong Shock Waves Caused by an Underwater Explosion: Case study of the World's Highest CFRD: the Shuibuya Dam Lu Lu, Ye Zhu, De-Gao Zou, Yun Dong, Chun-Yuan Zou, Jing Zhao

Poster II (Continued)

Date Date	Time	No.	4F Hallway
		31	SA7015 On-site Attenuation Experiments and Analysis of the Vibration Source Induced by Rail Vehicles Wei-Sen Li, Siao-Syun Ke, Chung-Sheng Lee
			SB7007 Electrochemical and Mechanical Properties of TiAl Intermetallic Alloy with Different Alloy Contents Tao-Hsing Chen, Ting-Yang Tseng
		33	SB7008 Integrated Assessment for Meteorological and Hydrological Drought of Southern Taiwan Hsin-Fu Yeh, Kai-Yin Lo, Jhe-Wei Lee
	10:00 10:50	34	SD7002 Polymer Blend effect on Mechanical Properties of Wood-Plastic Composites under Environmental Ageing Chin-Hsing Chen, Chin-Lung Chiang, Wei-Jen Chen and Ming-Yuan Shen
28 th Oct.		35	SD7003 Characterization and Properties of Modified GNPs / XNBR Nanocomposites Chen-Feng Kuan, Chin-Lung Chiang, Su-Hsia Lin, Wei-Guo Huang, Wen-Yen,hsieh and Ming-Yuan Shen
(Sat.)		36	SD7005 Combined Temperature and Moisture Effect on the Monotonic and Fatigue Strengths of Sandwich Beams with Glass-Polypropylene Faces and Aluminum Foam Cores Yi-Ming Jen, Chia-Wei Chang
		37	SD7009 Design and Simulation Analysis of Lightweight HDPE Milk Bottle Hsing-Hui Huang, Li-Wen Chen, Wei-Hua Lu, Wei-Cheng Lin and Yung-Chuan Chen
		38	SR7008 A Software Defined Sensor Network Architecture for Radio Spectrum Monitoring Systems Yih-Chuan Lin, Zhe-Sheng Shih
		39	
		40	SF7002 Optimal Power Allocation and Allowable Interference Shaping in Cognitive Radio Networks Hyang-Won Lee, Woohyuk Chang, and Bang Chul Jung

Poster III

Date Date	Time	No.	4F Hallway
		1	G7018 Noise Barrier Installation Technique on Highway Route No. 9 Chaddanai Jiradecha, Kritsanat Surakit, and Pruethipong Singhatiraj
		2	SG7003 New Fabrication Process of Silicon-Nanowire for Inertial Sensors Seohyeong Jang, Hun Lee, Jong Yoon Shin, Hyung Jung Yoo, and Dong-Il "Dan" Cho
	11:00	11:00	SG7005 A Low Noise Reconfigurable 12-to-16-bit Delta-Sigma Capacitance-to-Digital Converter with Chopper Stabilization Technique Byeoncheol Lee, Hyungseup Kim, Youngwoon Ko, Yeongjin Mun and Hyoungho Ko
			SG7006 A 1.23 pJ/Conversion-Step Energy-Efficient 16-bit SAR Capacitance-to-Digital Converter in 0.18 µm CMOS Process Youngwoon Ko, Hyungseup Kim, Yeongjin Mun, Byeoncheol Lee, and Hyoungho Ko
28 th Oct. (Sat.)			SG7007 Analysis on Tidal Channels based on UAV Photogrammetry: Focused on the West Coast, South Korea Case Analysis Jae Kang Lee, Jeong Ok Kim
		6	SZ7003 In-line Inspection of Surface Feature and Defect Ruifang Ye, Chia-Sheng Pan, Ming Chang
		7	SG7009 Plastic Optical Fiber Respiration Sensor Based on In-Fiber Microholes Young June Park, Jong-Dug Shin, Jaehee Park
		8	SG7012 Measurement of Electron Beams Induced Emission Signals Generated in Silica Optical Fibers Kyoung Won Jang, Sang Hun Shin, Wook Jae Yoo, Bongsoo Lee
		9	SR7009 A Novel Multi-signature Scheme Based on Chaotic Maps Kai Chain, Wen-Chung Kuo
		10	F7036 Non-contact estimation of the strength of human nasal airflow by using Far Infrared Imaging Dai Hanawa, Ryohei Takatori, Kimi Oguchi

Poster III (Continued)

Date Date	Time	No.	4F Hallway
	11 12 13 14 15 11:00 11:50 16 17 18 19	11	SH7003 Implementation a Smart Air Quality Monitoring and Alarm System Yui-Wei Wu, Hsiu-Lin Chen, Jia-Shing Sheu
		12	SH7004 Processing and Isolating Text Information on Business Card Ting-Shu Lin, Jia-Shing Sheu
		13	SH7005 An Efficient Overlap Fingerprint Feature Identification Method based on Multiple Filter Set and SVM Classifiers Yen-Lin Chen, Chia-Ming Liu, Chao-Wei Yu, and Yi-Pin Hsu
		14	SH7006 Improved Low Resolution Finger-Vein Image in Wavelet Domain Chih-Hsien Hsia
		15	SL7004 Structural Performance Evaluation of a Tempered Glass Guard and Handrail System Seonwoong Kim
28 th Oct. (Sat.)		1	SI7004 Development of a Data-driven ANFIS Model by using PSO-LSE Method for Nonlinear System Identification Ching-Yi Chen and Yi-Jen Lin
		17	SI7006 Hardware Design of Codebook-based Moving Object Detecting Method for Dynamic Gesture Recognition Ching-Han Chen, Ching-Yi Chen, and Nai-Yuan Liu
		18	G7003 Performance Evaluation of Permeability Cold Recycled Asphalt Using MMA Resin Jong-Won Lee, Hyo-Jin Cho, Jun-Young Bae, Young-Il Jang
		19	SK7002 Recent Trend in Bicycle Inner Transmission Hubs Yi-Chang Wu, Meng-Yu Shieh
		20	SK7003 Design of a Coaxial Magnetic Gear with an Integrated Brushless Permanent-Magnet Motors used for Electric Power Tools Yi-Chang Wu, Chin-Tsung Chan

Poster III (Continued)

Date	Time	No.	4F Hallway
		21	SK7004 A Modular Multi-Speed Inner Transmission for Medical Aids Yi-Chang Wu, Tsung-Yi Lin, Zi-Wei Kuo
		22	SK7005 A New Type of Multi-degrees of Freedom Piezoelectric Motor Shyang-Jye Chang, Jing-Yuan Lin
		23	SK7006 Structural Analyses of Wooden Pin Tumbler Locks in Ancient China Kuo-Hung Hsiao, Wen-Yi Xiong
	11:00 11:50	24	SL7005 Seismic Performance Evaluation of Highrise Steel Buildings According to Exposures Seonwoong Kim
		25	
28 th Oct. (Sat.)		26	
		27	SL7008 The use of Wavelet Shrinkage to Reduce the Multipath Effect in a GNSS based Bridge Health Monitoring System Jae Kang Lee, Jeong Ok Kim
		28	SL7009 A Study on the UAV Image-Based Efficiency Improvement of Bridge Maintenance and Inspection Jae Kang Lee, Jeong Ok Kim
			SR7002 On the Resource Utilization of M2M Group Communication in Cellular Networks Eunmi Chu and Bang Chul Jung
		30	SR7004 Research on the Smartphone APP with Functions of Earthquake Double-Checking and Sufferer Location Tracking Chuen-Ching Wang

Poster III (Continued)

Date	Time	No.	4F Hallway
		31	SS7006 Niche Genetic Algorithm for Solving the Multiplicity Problems of Genetic Feature Selections Chiu-Hung Chen, Wen-Hsien Ho
		32	SS7010 Evolutionary Algorithm in Adaptive Neuro-Fuzzy Inference System for Modeling Growth of Foodborne Fungi Jinn-Tsong Tsai, Wen-Hsien Ho
	11:00 11:50	33	SS7011 Gaussian Function-based Model with Improved Genetic Algorithm for Optimized P-wave Morphology in Electrocardiograms for Atrial Fibrillation Patients Yiu-Jen Chang, Wei-Hua Tang, Wen-Hsien Ho
		34	SS7012 Behavioral Intention and Performance Expectations for Health-Related Information Acquisition and Sharing on Social Networking Sites Hsien-Cheng Lin, Yao-Mei Chen, Wen-Hsien Ho
28 th Oct.		35	SS7013 Patient-specific Hemodynamics from Noisy Sounds of Heart and Lung Yenming J. Chen
(Sat.)		36	SS7014 Side Effect Assessment of Urinary Tract Infections for Patients Receiving Dapagliflozin Pei-Chun Chen, Su-han Hsu, Yenming J. Chen
		37	SS7015 Bayesian Approach in Patient's Admission Condition Stratification Yenming J. Chen, Kuan-Shan Chen, Wei-Hsiu Liu
		38	SS7016 Remote Temperature and Humidity Monitoring Device for Wheelchair Cushion Yu-Sheng Yang, Cheng-Tang Pan, Wen-Hsien Ho
		39	SSA7001 A Simplified Analytic Method for Flow-induced Vibration Response of Hydraulic Structure Caused by Flow Fluctuation Ya-Chao Wu, Ye Zhu, Lu Lu, Qin-Man Fan, Yun Dong, Chun-Yuan Zuo
		40	SSD7005 An Efficient Methodology based on Fuzzy Decision for Dental Shade Matching Chien-Hui Chuang, Hui-Wen Liu, Tzu-Yi Liao, Nung-Hsiang Lin, Ting-Lan Lin, Shaou-Gang Miaou, Szu-Yin Lin, and Shih-Lun Chen

Poster IV

Date	Time	No.	4F Hallway
			SSD7006 A Reconfigurable SOPC for Rapid Hardware Synthesis of Robot Controller Ching-Han Chen and Ching-Yi Chen
			SSD7010 Document Image Enhancement System Chih-Hsien Hsia
			ST7002 GPS Sensor Interference Suppression Using Modified Affine Projection Method Wei-Lung Mao, Chung-Wen Hung, Shi-De Ye, Guan-You Liu
		4	ST7008 The Control System for Plate Type Catalytic Reduction Performance Analysis with Automatic Blending Ming-Sen Hu, Liang-Hsiu Chen
	09:00 09:50	5	SU7003 Fuzzy Optimization based on Mixed-Integer Memetic Algorithm Yung-Chin Lin, Yung-Chien Lin
29 th Oct. (Sun.)		6	SU7004 The Design and Implementation of Intelligent Lighting System Based on Arduino and App Inventor Yung-Chien Lin, Yung-Chin Lin
		7	SV7002 Effect of Clean Solution on Electrical Characteristics and Reliability for Dense and Porous Low Dielectric Constant Materials Yi-Lung Cheng, Chi-Jia Huang, Chih-Yen Lee, Giin-Shan Chen, and Jau-Shiung Fang
		8	SV7003 Improving Electrical Characteristics of Thin-film Metal-electrode Substrates with Adhesion Layer during Folding Test Bor-Jiunn Wen, Pen-Cheng Wang, Tung-Yuan Lee, Pin-Hsuan Hung, Heng-Yin Chen
		9	SV7004 Material Characteristic Effect of Wafer Level Underfill on the Microbump Reliability of Ultra-Thin-Chip Stacking Type 3D-IC Assembly during Thermal Cycling Tests Chang-Chun Lee
		10	SV7005 Redistributed Geometrical Effect of Cu-Filled Stacked Vias on the Thermal-Induced Stress and Warpage of 3D-ICs Embedded Interposer Chang-Chun Lee, Jing-Yan He, Pei-Chen Huang

Poster IV (Continued)

Date	Time	No.	4F Hallway
		11	SV7006 The Study of Pool Boiling Heat Transfer on Anodic Aluminum Oxide Surfaces Wen-Shih Lin, Shih-Hsun Chen, Tsung-Chieh Cheng
		12	
		13	SW7003 Design of Inspection System for Drilling Holes in Carbon Fiber Reinforced Plastics (CFRP) Hyo-Young Kim, Chang-Hoon Seo, Moon-Gu Lee, Su-Geun Shin, Seok-Woo Lee
	09:00 09:50	14	SW7006 Development of Advertising Accessory with Light Guide for Mobile Devices Kihyun Kim, Hyo-Young Kim, Je-Heon Han
		15	SW7007 Deformation Analysis of Flexible Substrate by Finite Element Analysis You-Sung Kang, Moon G. Lee, Dongwoo Kang
29 th Oct. (Sun.)		16	SX7002 A Dynamic Pricing Model for Balancing Bike Sharing Systems Peng-Sheng You
		17	SX7004 Comparative Study on Electrical Characteristics of (111) and (100) Silicon Nanowire Transistors Using Quantitative Current Model Yeok In Choi, Sangmin Lee
		18	SX7008 Meta-Evolutionary Computation Approach for Nonlinear Constrained Signal Detectors Allocation Problems Ta-Cheng Chen, Sheng-Chuan Wang, Chun-Hui Wu, Ke-Wei Huang
		19	SX7011 Modeling and Quantitative Design of a Controller for a Bidirectional Converter with High Voltage Conversion Ratio Kuei-Hsiang Chao, Hong-Jhih Chen
		20	SX7015 Multi-Objective Competitive Location Problem with Cooperative-Covering for Distance-based Attractiveness Sheng-Chuan Wang, Ta-Cheng Chen

Poster IV (Continued)

Date	Time	No.	4F Hallway
		21	SZ7001 164 nW Inverter-based Capacitive Readout IC for Microaccelerometer Youngwoon Ko, Hyungseup Kim, Yeongjin Mun, Byeoncheol Lee and Hyoungho Ko
			SZ7002 Modeling and Simulation of Mass-Sensitive Oscillator based on AlN Piezoelectric Microresonator in Liquid Media Hyungseup Kim, Youngwoon Ko, Yeongjin Mun, Byeoncheol Lee, Yi-Gyeong Kim, Hyunjoong Lee, Yil Suk Yang, Chang Han Je, Woo Seok Yang and Hyoungho Ko
		23	SR7007 The Enhanced Confidentiality with Chaos/binary Mapping Algorithm for Secure Video Transmission in WDM Network Yao-Tang Chang, Yih-Chuan Lin and Wei-Hsiang Wang
	09:00 09:50	24	SZ7005 An Integrated Gas Microsensor by Doping Metal Oxides to Tin Dioxides for Detecting Multiple Gases Hsing-Cheng Chang, Yu-Liang Hsu, Ya-Hui Chen, Tai-Jiun Guo
29 th Oct.		25	WA7001 Correlation Analysis of BioMedical Entities using Word Embedding Byeong-Hun Yoon, Young-Shin Youn, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim
(Sun.)		26	WA7004 Left Truncation Criteria for Survival Analysis of Urothelial Transitional Cell Carcinoma on Renal Disease Patients with Maintenance Hemodialysis Yi-Horng Lai
		27	WB7003 Effects of Short-term Sling Exercise with Whole Body Vibration Recovery Method on Heart Rate, Blood Pressure and Lactate Acid Level Variability Jh-Hwan Oh, Tae-Kyu Kwon
		28	WB7004 Variations of Kinematic and Kinetic Patterns in Elderly Gait by Achilles Tendon Vibratory Stimulation Kiyoung Kwak, Huigyun Kim, Seunghun Ko, Dongwook Kim
			WC7001 Application of low-cost ZigBee Real-time Monitoring System that can be Constructed Swiftly on Demand to ICU Monitoring Ke-Feng Lin, Shih-Sung Lin, Min-Hsiung Hung, Chung-Hsien Kuo, Ping-Nan Chen
		30	WC7003 Effects of Local Vibration Applied to Lower Limb in Elderly on the Amplitude of Somatosensory Evoked Potentials Huigyun Kim, Kiyoung Kwak, Jaeseong Kim, Dongwook Kim

Poster IV (Continued)

Poster IV (Time	No.	4F Hallway
		32	WC7004 The Pilot Study of Health Care Management Systems for Premature Infants Mei-Hua Wang, Yu-Wen Fang, Chien-Tsai Liu
			WC7008 Stem Cells Processing for Repairing Brain Function After Stroke Po-Cheng Lin, Chao-liang Chang, Wan-Sin Syu, Ming-Hsi Chuang
			WC7009 The Effect of Stem Cells Treatment on Traumatic Brain Injury Rats Kai-Ling Zhang, Yung-Hsiao Chiang, Ming-Hsi Chuang
			WC7010 To Investigate the Feasibility of Adult Stem Cells in the Treatment of Periodontal Bone Defect Yii-Hsiu Chen, Hsiao-Pei Tu, Ming-Hsi Chuang, Chao-Liang Chang, Chun-Hung Chen
	09:00 09:50		WD7001 Component Selection by Aging Comparison for Polymerase Chain Reaction Thermal Cycler Mi-So Lee, Chan-Young Park, Yu-Seop Kim, Hye-Jeong Song, and Jong-Dae Kim
29 th Oct. (Sun.)		36	WD7002 User-Friendly Interface for Electrical Cell-substrate Impedance Spectroscopy System Sang-Oh Park, Chan-Young Park, Hye-Jeong Song, Yu-Seop Kim, Jongwon Kim, Won-kyun Im, Sung Ho Jeon and Jong-Dae Kim
		38	WD7003 Electrode Structure for Electrochemical Impedance Measurement Deviation Reduction Ji-Seong Park, Chan-Young Park, Yu-Seop Kim, Hye-Jeong Song, and Jong-Dae Kim
			WD7004 A Study of PCR Control via Cloud Using FCM So-Yeon Lee, Jong-Dae Kim, Yu-Seop Kim, Hye-Jeong Song, Ah-Reum Park, and Chan-Young Park
			WD7005 Emulation Test of the Integrated Polymerase Chain Reaction Chip Ji-Soo Hwang, Yeo-Reum Kim, Dong-Geon Jo, Jong-Dae Kim, Yu-Seop Kim, Hye-Jeong Song, Doohee Jeong and Chan-Young Park
		40	WD7006 Control the PCR Instrument through Cloud Using COAP Jeong-Uk Park, Jong-Dae Kim, Hye-Jeong Song, Yu-Seop Kim, Inyoung Kim and Chan-Young Park

Poster V

Date	Time	No.	4F Hallway
			WD7010 A Microfluidic Device Platform with Nano-and mciro-structures for Cell-trapping Application Shih-Chi Chan, Chi-Huang Huang, Tien-Li Chang, Chun-Ting Hsiao, Cheng-Ying Chou, Kai-Che Liu, Shih-Wei Huang, Ching-Hao Li
			WD7011 A Biomaterial Storage Device with Automated Access Function Ming-Hsi Chuang, Po-Cheng Lin, Wen-Peng Shen
	10:00 10:50	3	WD7012 A Simple Method for Removing Initial Irregularity of an Electrocardiogram during a Transient State of a Power Supply in Defibrillator Jeong-Han Yi, Young-Jae Bang, Hyung-Sik Kim
		4	L7004 Effect of Relative Humidity on Adsorption Breakthrough of CO2 on Activated Carbon Fibers Yu-Chun Chiang, Yu-Jen Chen, and Cheng-Yen Wu
29 th Oct. (Sun.)		5	TA7010 Influences of Ground Motion Parameters on the Seismic Responses of Anchored Bedding Rock Slope Ningbo Peng, Yun Dong
		6	F7025 Lung nodule detection using ensemble classifier in CT images Chien-Cheng Lee, Shuo-Ting Tsai
		7	C7031 A Multi-Task Learning Network for Handwritten Numeral Recognition Jinhui Hou, Huanqiang Zeng, Lei Cai, Jianqing Zhu, Jing Chen, Canhui Cai
		9	SL7001 Efficient First-Order Plastic Hinge Analysis Based on the Generalized Finite Element Method Sung-Gul Hong, Yousun Yi, Hongjun Son, Dae-Jin Kim
			SL7002 Structural Performance of a New Steel Frame Modular Beam-Column Connection under Lateral Loading Bong-Ho Cho, Jae-Sub Lee, Taehyu Ha, Ji-Eun Jung, Dae-Jin Kim
		10	SL7003 Push-out Test and Analysis of Steel Pile Caps Strengthened with Perfobond Shear Connectors Hong Chul Rhim, Young Ho Kim, Jeongwook Yoo, Dae-Jin Kim

Poster V (Continued)

Date	Time	No.	4F Hallway	
		11	SSD7011 A Transfer Learning Algorithm for Automatic Requirement Model Generation Yan Kang, Hao Li, Chenyang Lu and Bin Pu	
		12	SG7008 Using SONOS Device Under PVS as UV TID Nonvolatile Radiation Sensor Wen-Ching Hsieh, Fuh-Cheng Jong, Hao-Tien Daniel Lee, Shich-Chuan Wu and Zeng-Wei Ting	
		13		
	10:00 10:50	14		
29 th Oct.		15		
(Sun.)		10	16	
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		18		
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		20		