

Session A1

Date	Time	<p style="text-align: center;">Cattleya</p> <p>B. Mechatronic and robotics Engineering, L. Environmental, Food, Health Science & Technology, CK. Advanced Techniques and Applications for Mobile Communication</p> <p><i>Prof. Ying-Ling Chen, Session Chair</i></p>
16th July (Tue.)	08:00~08:12	<p>CB9001</p> <p>Robotic Control by Teleoperation and Delay Time Issues Using the Internet</p> <p><i>Anuntachai Machim, Murray John Lawn, Ikuo Yamamoto</i></p>
	08:12~08:24	<p>CB9003</p> <p>Effective Path Planning for Collision-Free Guidance of a Passive Robot Walking Helper</p> <p><i>Shu-Ling Cheng, Chun-Hsu Ko, Kuu-Young Young</i></p>
	08:24~08:36	<p>CB9006</p> <p>Path Control iRobot Create2 Based Sensors</p> <p><i>Narong Aphiratsakun, Santi Liwsakphaiboon</i></p>
	08:36~08:48	<p>SCK9002</p> <p>Design and Implementation of a Capacitorless Low Dropout Regulator for Low Power SoC Applications</p> <p><i>Min-Chin Lee, Yi-Xiang Huang</i></p>
	08:48~09:00	<p>SCK9003</p> <p>Improving the Skills Training of Base Station Maintenance by Using the MR Fusion and Image Recognition Techniques</p> <p><i>Chin-Lun Lai</i></p>
	09:00~09:12	<p>SCK9006</p> <p>Implement an Assisting Equipment of Power Rehabilitation System</p> <p><i>Ching-Sung Wang, Yo-Wei Lin</i></p>
	09:12~09:24	<p>SCK9007</p> <p>Using Mobile Computing Technique for English Education</p> <p><i>Ying-Ling Chen</i></p>
	09:24~09:36	<p>CL9003</p> <p>Reclamation of Nickel in Wastewater as Basic Nickel Carbonate Crystal by Fluidized-bed Homogeneous Crystallization (FBHC)</p> <p><i>Syuan-Tang Wang, Cheng-Yen Huang, Yu-Jen Shih, Yao-Hui Huang</i></p>
	09:36~09:48	<p>CL9006</p> <p>Recovery of Iron as Goethite in the Presence of Carbonate and Dissolved Oxygen by Fluidized-bed Homogeneous Granulation(FBHG)</p> <p><i>Tsung-Yen Wu, Pin-Lun Wu, Yu-Jen Shih, Yao-Hui Huang</i></p>
	09:48~10:00	<p>CL9010</p> <p>Investigating the Oxidation Efficiency of Hg⁰ at Low Temperatures by Using CuO/TiO₂ Photocatalysts and Their Surface Characteristics</p> <p><i>Shih-Wen Wang, Jun-Zhu Yang, Iau-Ren Ie, Chung-Shin Yuan</i></p>

Session B1

Date	Time	<p style="text-align: center;">Azalea</p> <p>D. Optical Engineering, M. Innovation Management, N. Intelligent Computing, CF. Intelligent Automated Optical Inspection and Measurement, CM. Technology of AI and IoT with Wireless and Advanced Networking <i>Dr. Madhusudan Raghavan, Session Chair</i></p>
16th July (Tue.)	08:00~08:12	<p>CD9006 Beam Shaping with Collimated Rotation Symmetric Profile from Collimated Light Source <i>Chen-Kang Wu, Cheng-Mu Tsai</i></p>
	08:12~08:24	<p>SCF9001 In-line Automatic Optical Inspection (AOI) in A Non-stop Manufacturing Line Aided by 6R Robot Arm <i>Zai-Gen Wu, Shu-Ping Lin, Wei-Hao Lu, Po Ting Lin</i></p>
	08:24~08:36	<p>SCF9002 Probabilistic Image Classification with Kernel Density Estimation of Image Quality Factors <i>Tso-Han Hsueh, Wei-Hao Lu, Shu-Ping Lin, Po-Ting Lin</i></p>
	08:36~08:48	<p>SCF9004 Instantaneous Analyzing of Shadow Moiré Fringes Phases for Out-of-plane Displacement Measurement <i>Ju-Yi Lee, Ying-Kai Hsu, Hong-Yih Yeh, An-Chi Wei</i></p>
	08:48~09:00	<p>CM9004 The Emergence and Growth Path of Shanzhai Firms <i>Jason Shay, Peter Shieh, Ming-Piao Tsai, Hsiang Jui Cheng</i></p>
	09:00~09:12	<p>CN9001 Weighted Random Forests for Evaluating Financial Credit Risk <i>Tzu-Tsung Wong, Shang-Jung Yeh</i></p>
	09:12~09:24	<p>CN9007 The Autonomous Shopping-Guide Robot in Cashier-Less Convenience Stores <i>Po-Han Lin, Cheng-Yi Lin, Chen-Ting Hung, Jen-Jee Chen, Jia-Ming Liang</i></p>
	09:24~09:36	<p>CN9008 Privacy-preserving Distributed Deep Learning Based on Secret Sharing <i>Jia Duan, Jiantao Zhou</i></p>
	09:36~09:48	<p>CN9009 Tangency Problem for Circles in Bubble Chart <i>Ching-Shoei Chiang, Hung-Chieh Li</i></p>
	09:48~10:00	<p>SCM 9003 The Real-time Deep Learning Based Intrusion Detection System to Prevent SSH Brute Force Attacks in Software Defined Networks <i>Tsung-Han Lee, Chao-Wei Syu, Lin-Huang Chang</i></p>

Session C1

Date	Time	<p style="text-align: center;">Lilac</p> <p>A. Materials Engineering, G. Green Technology & Civil Engineering, H. Industry 4.0 & Automation Engineering, CE. Advances in High Performance Alloys</p> <p><i>Prof. Jacob Huang, Session Chair</i></p>
16th July (Tue.)	08:00~08:12	<p>CG9006</p> <p>High-density Eddy Flow Bioreaction of Anaerobic Ammonium Oxidation Technology with Real-time Monitoring System</p> <p><i>Tsz Chang, Chi-Chio Ng, Ting-Cih Huang, Hsiu-Yi Tsai, Gema-Syahidan-Akbar Prawira, Wen-Yaw Chung, Yu-Tzu Huang</i></p>
	08:12~08:24	<p>CA9013</p> <p>Pellet Formulation and Wire Extrusion for Printing Composite NdFeB Magnets by Fused Deposition Modeling</p> <p><i>Guan-Lin Hwang, Yen-I Lee, Huang-Wei Chang, Wen-Cheng Chang, Tsung-Wei Chang, Mi-Ching Tsai</i></p>
	08:24~08:36	<p>CA9014</p> <p>Fabrication of N-type GaN Thin Film through Si and Ti co-doping on a Glass Substrate by Using Magnetron Sputtering System</p> <p><i>Wei-Sheng Liu, Chun-Yuan Tan, Yu-Lin Chang, Cheng-Ting Tsai</i></p>
	08:36~08:48	<p>CA9019</p> <p>Dual Electro- and Magneto-Response of Poly(diphenylamine)-Magnetite Composite Based Suspension</p> <p><i>Yu Zhen Dong, Hyoung Jin Choi</i></p>
	08:48~09:00	<p>CA9020</p> <p>AI-assisted Biomimetic Design for Patterned Dry Adhesives</p> <p><i>Bo-Cheng Chen, Kai-Ming Wu, Siao-Ling Li, Yi-Chang Chung, Tzung-Pei Hong, Chau-Cho Yu, Chih-Hung Wu</i></p>
	09:00~09:12	<p>CH9003</p> <p>Machine Learning Models for Gas Transmission Plant Equipment Failure Prediction</p> <p><i>Prachaya Achariyapagon, Ponkrit Mangkrakupt, Anirut Tongtanee</i></p>
	09:12~09:24	<p>SCE9005</p> <p>Vacancy Formation in the CoCrFeMnNi High Entropy Alloys</p> <p><i>Hung-Sheng Chou, Tu-Ngoc Lam, E-Wen Huang</i></p>
	09:24~09:36	<p>SCE9006</p> <p>Synthesis of Graphite Encapsulated Ferromagnetic and Non-ferromagnetic metal nanocrystals by Using an Arc-discharge method</p> <p><i>Mao-Hua Teng, Yu-Chieh Huang, Jih-Ying Chen, Tun-Hao Tsai</i></p>
	09:36~09:48	<p>SCE9007</p> <p>New Processing and Strengthening/Toughness Mechanisms in Multi-principal-element alloys</p> <p><i>X. H. Du, W. P. Li, T. Yang, J. C. Huang, C. T. Liu, Q. Li, F. R. Chen, W. S. Chuang, E. W. Huang</i></p>
	09:48~10:00	<p>SCE9012</p> <p>Effects of Al Content on Air-oxidation of Ni₂FeCoCrAl_x High-entropy superalloys at 700–900oC</p> <p><i>Wu Kai, Fu-Pen Cheng, Feng-Chih Chien, Ji-Jung Kai, Chain-Tsuan Liu, Chaur-Jeng Wang</i></p>

Paper Award 1

Date	Time	Cattleya
16 th July (Tue.)	10:10~10:25	CC9001 ESD-Protection Design of UHV Circular N-channel LDMOSs by the Drift Region with Elliptical Cylinder Super-junctions <i>Shen-Li Chen, Pei-Lin Wu, Yu-Lin Zhou, Po-Lin Lin, Sheng-Kai Fan, Yu-Jen Chen</i>
	10:25~10:40	CF9008 Combining Cloud Computing and Artificial Intelligence Scene Recognition in Real-time Environment Image Planning Walkable Area <i>Jia-Shing Sheu, Chen-Yin Han</i>
	10:40~10:55	CF9024 Frame-synchronous Blind Audio Watermarking for Tamper Proofing and Self-Recovery <i>Hwai-Tsu Hu, Ying-Hsiang Lu</i>
	10:55~11:10	CN9004 Improved Whale Optimization Algorithm Based on Inertia Weights for Solving Global Optimization Problems <i>I-Ming Chao, Shou-Cheng Hsiung, Jenn-Long Liu</i>
	11:10~11:25	SCF9003 Machine Vision and Deep Learning based Rubber Gasket Defects Detection <i>Chao-Ching Ho, Eugene Su, Po-Chieh Li, Matthew J. Bolger, Huan-Ning Pan</i>
	11:25~11:40	CJ9009 The Design of Mold Clamping Mechanisms with Two Toggle Configurations <i>Tzu-Hsia Chen, Long-Chang Hsieh</i>
	11:40~11:55	CH9002 Remote Monitoring for the Operation Status of CNC Machine Tools Based on HTML5 <i>Yu-Shun Wang, Ling-Song He, Zhi-Qiang Gao, Jun-Feng Wang, Yang-Fan Cao</i>
	11:55~12:10	CI9005 Robust Adaptive Depth Control of Hybrid Underwater Glider in Vertical Plane <i>Ngoc-Duc Nguyen, Hyeung-sik Choi, Han-Sol Jin, Jae-Heon Lee</i>
	12:10~12:25	CL9018 A Quantitative Study of Public Perceptions in Environmental Risk: Dose Gender Matter? <i>Chia-Lee Yang, Chao-Chun Chuang, Chang-Wei Yeh, Chang-Huain Hsieh, Ching-Chun Hsu</i>

Session B2

Date	Time	<p style="text-align: center;">Azalea</p> <p>C. Electrical & Electronic Engineering, CG. System Development, Control, and Optimization, CH. Control System and Applications, CM. Technology of AI and IoT with Wireless and Advanced Networking</p> <p><i>Prof. Chian-C. Ho, Session Chair</i></p>
16th July (Tue.)	10:10~10:22	<p>SCG9001</p> <p>A Fast Design Procedure of 3D Printable Porous Structures</p> <p><i>Guang-Liang Chen, Po Ting Lin</i></p>
	10:22~10:34	<p>SCG9002</p> <p>End Effector Absolute Positioning Under Various Loading Conditions Based on Cable Measurement Trilateration and Kriging Modeling</p> <p><i>Hsiang-Chih Shih, Po Ting Lin</i></p>
	10:34~10:46	<p>SCG9003</p> <p>Investigation of Soft Actuator Kinematics Based on Parametric DH Functions</p> <p><i>Kai-An Yang, Yu-Ta Yao, Wei-Yao Tan, Po-Ting Lin</i></p>
	10:46~10:58	<p>SCG9018</p> <p>Building a Predicted Corner and Circle Milling Error for a CNC Machine by a General Regression Neural Network Model</p> <p><i>Yi-Cheng Huang, Zi-Sheng Yang, Hsien-Shu Liao</i></p>
	10:58~11:10	<p>CC9011</p> <p>Cost Optimization and Deadlock Avoidance in iPhoneXS-like Manufacturing Processes Using Petri Nets</p> <p><i>Ting-Jui Huang, Victor Rong-Lin Shen, Tong-Ying Juang</i></p>
	11:10~11:22	<p>CC9013</p> <p>Supervised Deep Learning by Petri Nets</p> <p><i>Wen-Hao Chen, Victor R. L. Shen, Tony Tong-Ying Juang</i></p>
	11:22~11:34	<p>CC9014</p> <p>A Time-Frequency Analysis for Intervals of the QRS Complex of Electrocardiograms</p> <p><i>Yen-Ching Chang, Chun-Yen Lin, Wei-Shiuan Yan, Tzu-Yun Pan</i></p>
	11:34~11:46	<p>SCH9003</p> <p>Markerless Indoor/Outdoor Augmented Reality Navigation Device Based on ORB-visual-odometry Positioning estimation and ORB-visual-mapping Image Registration</p> <p><i>Ching-Hsiang Tsai, Chian C. Ho, Nai-Hsin Pan</i></p>
	11:46~11:58	<p>SCM9001</p> <p>IoT System Development for Smart Mushroom Greenhouse</p> <p><i>Chuan-Pin Lu, Cheng-Sheng Lin, Sheng-Tung Cheng, Yun-Jie Zhang</i></p>
	11:58~12:10	<p>SCM9005</p> <p>Application of Programmable Logic Controller for Smart Home Automation</p> <p><i>Yu-Huei Cheng</i></p>
12:10~12:22	<p>SCM9004</p> <p>The Influence of the Angle of Feature Point for Indoor Positioning by Machine Vision</p> <p><i>Tzu-Cheng Huang, Kun-Leng Chen, Jiun-Jian Liaw</i></p>	

Session C2

Date	Time	<p style="text-align: center;">Lilac</p> <p>F. Computer & Information Engineering, L. Environmental, Food, Health Science & Technology, O. Other Engineering and Technology related topics, CB. Advances in Computer and Communications Engineering , CE. Advances in High Performance Alloys, CM. Technology of AI and IoT with Wireless and Advanced Networking</p> <p><i>Dr. Wanpeng Li, Session Chair</i></p>
16th July (Tue.)	10:10~10:22	<p>CF9003</p> <p>Cooperative Monitoring Scheduling of PTZ Cameras with Splitting Vision and Its Implementation for Security Surveillance</p> <p><i>You-Chiun Wang, Ding-Yan Chen</i></p>
	10:22~10:34	<p>CF9011</p> <p>Location-Based Linear Regression for Image Super-Resolution</p> <p><i>You-Sheng Guo, Yan-Jhu Wang, Changsheng Deng, Shih-Lun Chen, Yih-Shyh Chiou, Szu-Yin Lin, Ting-Lan Lin</i></p>
	10:34~10:46	<p>SCE9014</p> <p>Nanoscale Structure and Mechanical Properties of Dual Nano-grained metallic glass</p> <p><i>Wenyu Chen, Chih-Ching Huang, Hsien-Wei Chen</i></p>
	10:46~10:58	<p>SCE9015</p> <p>Phase Equilibria and Nano-scaled Creep Response of TiAlV Light-weight Multi-principal Element Alloy at Elevated Temperatures</p> <p><i>Xiang-Kai Zhang, Han-Ting Ye, Jacob Chih-Ching Huang, Tai-You Liu, Min-Tsang Tsai, Yu-Chin Liao, Jason Shian-Ching Jang</i></p>
	10:58~11:10	<p>SCE9016</p> <p>HAADF, EDS and APT Characterizations of Nano-Precipitated Multi-Principal-Element Alloys</p> <p><i>Wanpeng Li, Xinghao Du, Tao Yang, Jacob Huang, Fu-Rong Chen, Chain-Tsuan Liu</i></p>
	11:10~11:22	<p>CO9005</p> <p>Research on Fleet Scale and Distribution Route of Chain Supermarkets</p> <p><i>Rongxia Zhou, Shih Ming Ou</i></p>
	11:22~11:34	<p>CO9008</p> <p>The Strategy of Energy Saving for Smart Shipping</p> <p><i>Heiu-Jou Shaw, Fu-Ming Tzu</i></p>
	11:34~11:46	<p>SCB9005</p> <p>Design and Implementation of Wireless Mesh Network Video Surveillance System</p> <p><i>Yih-Chuan Lin, Yen-Tai Liu, Yao-Tang Chang</i></p>
	11:46~11:58	<p>CL9002</p> <p>Personalized Rehabilitation Recognition Model upon ANFIS</p> <p><i>Yao-Chiang Kan, Yu-Chieh Kuo, Hsueh-Chun Lin</i></p>
	11:58~12:10	<p>SCM9002</p> <p>Traffic Light Cycle Configuration Based on Single Intersection Traffic Flow</p> <p><i>Hung-Chi Chu, Yi-Xiang Liao</i></p>
	12:10~12:22	<p>CL9017</p> <p>Ultra-Violet Treatment for Fermenting Low-salt Soya Sauce</p> <p><i>Sophia Ferng, I-Hui Wu, Ang-Yen Li, Cheng-Kuang Hsu, Robin Yih-Yuan Chiou, Ching-Hua Ting</i></p>

Paper Award 2

Date	Time	Palace Hall East
16 th July (Tue.)	13:30~13:45	<p>CG9003 Side Resistance of Drilled Shafts Socketed into Rocks for Serviceability and Ultimate Limit States <i>Yit-Jin Chen, Cheng-Chieh Hsiao, Anjerick Topacio</i></p>
	13:45~14:00	<p>CI9004 Consensus via Adaptive Gain Controllers Giving Consideration to Relative Distances for Multi-Agent Systems <i>Shun Ito, Kazuki Miyakoshi, Hidetoshi Oya, Yoshikatsu Hoshi, Shunya Nagai</i></p>
	14:00~14:15	<p>CO9007 Adaptation of the Higher Education in Engineering to the Advanced Manufacturing Technologies <i>Olivier Bonnaud, Ahmad Bsiesy</i></p>
	14:15~14:30	<p>CI9003 Synthesis of Formation Control Systems for Multi-Agent Systems under Control Gain Perturbations <i>Kazuki Miyakoshi, Shun Ito, Hidetoshi Oya, Yoshikatsu Hoshi, Shunya Nagai</i></p>
	14:30~14:45	<p>SCM9006 Application-based Online Traffic Classification with Deep Learning Models on SDN Networks <i>Lin-Huang Chang, Cheng-Wei Su, Tsung-Han Lee</i></p>
	14:45~15:00	<p>CJ9008 Obstacle Avoidance for an Unmanned Surface Vehicle Based on Rapidly-Exploring Random Trees Algorithm <i>Mai The Vu, Hyeung-Sik Choi, Dae-Hyung Ji, Hyun-Joon Cho</i></p>
	15:00~15:15	<p>CJ9013 Optimizing Engine Start Systems <i>Madhusudan Raghavan</i></p>

Session B3

Date	Time	<p style="text-align: center;">Azalea</p> <p>C. Electrical & Electronic Engineering, F. Computer & Information Engineering, L. Environmental, Food, Health Science & Technology, N. Intelligent Computing, O. Other Engineering and Technology related topics, CB. Advances in Computer and Communications Engineering <i>Prof. Po-Chun Huang, Session Chair</i></p>
17th July (Wed.)	08:00~08:12	<p>SCB9003 The Experimental Implementation of Reconfigurable Wavelength Hopping Protecting against Eavesdropper over Wireless WDM Network <i>Yao-Tang Chang</i></p>
	08:12~08:24	<p>CL9021 Removal of Acetaminophen with Fe/TiO₂ Nanoparticles under UV/Visible Light Irradiation <i>Po-Han Lee, Yi-Chu Huang</i></p>
	08:24~08:36	<p>CF9004 Analysis of the Five-round Adaptive Diagnosis on the Crossed-cube <i>Y-Chuang Chen, Zhi-We Zeng</i></p>
	08:36~08:48	<p>CF9009 Exploiting Data Retention Errors to Assist the Management of Caches based on Nonvolatile Memories <i>Yi-Hua Chen, Yu-Ping Tang, Ting-Syuan Lin, Yun-Shan Hsieh, Po-Chun Huang</i></p>
	08:48~09:00	<p>CF9015 Error Correction Code for In-place Updates on Nonvolatile Memory Caches <i>Yi-Hua Chen, Yi-Han Lien, Yu-Ping Tang, Po-Chun Huang</i></p>
	09:00~09:12	<p>CF9017 Blockchain-based Paper Submission System for Author Nonrepudiation and Plagiarism Checking <i>Shin-Ting Wu, Yi-Hua Chen, Po-Chun Huang</i></p>
	09:12~09:24	<p>CF9016 An Efficient Deep Reinforcement Learning Algorithm Based on Bootstrap and Aggregation <i>Jun-Ta Wu, Hui-Yun Li</i></p>
	09:24~09:36	<p>CC9009 An Overview of Own Tracking Wireless Sensors with GSM-GPS Features <i>Hamed Yassin-Kassab, Marius-Corneliu Rosu</i></p>
	09:36~09:48	<p>CN9010 A Deep Learning Based National Flag Recognizer <i>Liang-Hwa Chen</i></p>
	09:48~10:00	<p>CO9006 Maze and Mirror Workshop Design for Increasing Motivation in Studying Science in Elementary School Aged Children <i>Sara Hojjat, Dor Abrahamson, Tomoyuki Sowa, Chiaki Ikemoto</i></p>

Session C3

Date	Time	<p style="text-align: center;">Lilac</p> <p>H. Industry 4.0 & Automation Engineering, M. Innovation Management, CF. Intelligent Automated Optical Inspection and Measurement, CJ. Sustainable Innovation</p> <p><i>Prof. Wen-Lih Chen, Session Chair</i></p>
17th July (Wed.)	08:00~08:12	<p>SCF9012</p> <p>Deep Learning Based Character Recognition Using Image Reshaping Technique</p> <p><i>Ming Chang, Kuan-Yu Chen, Pei-Yuan Hung, Tsung-Hung Chien</i></p>
	08:12~08:24	<p>CM9005</p> <p>A Research Survey of Electronic Commerce Innovation: Evidence from the Literature</p> <p><i>Kai-Yu Tang, Chun-Hua Hsiao, Mei-Chun Chen</i></p>
	08:24~08:36	<p>SCJ9001</p> <p>A Study on the Characteristics of Wind Turbulence Offshore in Changhua Area</p> <p><i>Weng-Han Lin, Jiun-Jih Miao, Yng-Ru Chen, Tzong-Shyng Leu, Yuan-Shiang Tsai</i></p>
	08:36~08:48	<p>SCJ9002</p> <p>Multiphase Flow Microfluidics for Encapsulation of Alginate/PLGA Composite Microparticles</p> <p><i>Szu-I Yeh</i></p>
	08:48~09:00	<p>SCJ9003</p> <p>Solar-energy Based Water Treatment System Applicable to Remote Area</p> <p><i>Arsanto Ishadi Wibowo, Keh-Chin Chang</i></p>
	09:00~09:12	<p>SCJ9004</p> <p>Development of a Compact Watt-level Low-temperature-differential Stirling Engine</p> <p><i>Wen-Lih Chen</i></p>
	09:12~09:24	<p>SCJ9005</p> <p>Control Strategy of a Hybrid Renewable Energy System Based on Reinforcement Learning Approach for an Isolated Microgrid</p> <p><i>Bao Chau Phan, Ying-Chih Lai</i></p>
	09:24~09:36	<p>SCJ9006</p> <p>Combustion Behavior Optimization of Torrefied Woody Biomass with Proximate and Element Analysis Index</p> <p><i>Yueh-Heng Li, Wei-Chieh Kuo, Shuhaimi Mansor</i></p>
	09:36~09:48	<p>CH9001</p> <p>Real-time Fuzzy Control of an Assembly Line</p> <p><i>Jiage Huo, Felix T.S. Chan, Carman K.M. Lee, Jan Ola Strandhagen</i></p>
	09:48~10:00	<p>CH9004</p> <p>An Intelligent Optimization System of Micro Electroforming Process for the Mesh Filter</p> <p><i>Wen-Chin Chen, Pao-Wen Lin, Shi-Bo Lin, Kuan-Ming Lin, Yun-ru Chang</i></p>

Session B4

Date	Time	<p style="text-align: center;">Azalea</p> <p>J. Mechanical Engineering, CE. Advances in High Performance Alloys <i>Prof. Jason S. C. Jang, Session Chair</i></p>
17th July (Wed.)	10:15~10:27	<p>CJ9001 The Design and Analysis of Broadband Acoustic Absorptive Surface <i>I-Ling Chang, Jen-Ting Huang</i></p>
	10:27~10:39	<p>CJ9002 Recognizing Stamping Operations from 3D Model of Strip Layout in a Progressive Die <i>Alan C. Lin, Ho Minh Tuan</i></p>
	10:39~10:51	<p>CJ9005 Thermal and Mechanical Analysis of Laser Processing <i>Hsuan-Hao Shih, Chih-Kuang Lin</i></p>
	10:51~11:03	<p>CJ9007 Negative Refraction in Two Dimensional Phononic Crystal <i>Chih-Chieh Ko, Hao-Wei Kao, I-Ling Chang</i></p>
	11:03~11:15	<p>CJ9010 The Analysis and Experimental Measurement of Lamb Wave Propagating on Phononic Crystal Plate <i>Ming-Wei Wang, Chih-Rui Chen, I-Ling Chang</i></p>
	11:15~11:27	<p>CJ9012 Thermal Transport of Branched Nanotubes with Cross- and T-Junction <i>Chi-Lin-Wu, Guan-Shiung Wang, I-Ling Chang</i></p>
	11:27~11:39	<p>SCE9009 Improvement of Fracture Toughness on Fe-based Metallic Glass and Preparation of Its Powder for Additive Manufacturing <i>Pei Hua Tsai, Chiao Guan Chang, Yu Chin Liao, Sin Mao Song, Chia Chuan Chu, Po Sung Chen, Wei Tong Ye, Jason Shian Ching Jang, Jeng Rong Ho, Shen Tsao</i></p>
	11:39~11:51	<p>SCE9011 Improvement of Mechanical Properties of Magnesium-based Bulk Metallic Glass Composite with Adding Fe and TiZr-based Metallic Glass Particles <i>Sin-Mao Song, Chih-Wei Chiang, Pei-Chun Wong, Yu-Chin Liao, Pei-Hua Tsai, Yen-Ting Lin, Yi-Yuan Nian, Jason Shian-Ching Jang, Chih-Hua Chen</i></p>
	11:51~12:03	<p>SCE9013 Microstructure and Mechanical Properties of the Novel Light-weight Dual Phase Al50Ti20Cr_xMn30-x High Entropy Alloys <i>Yu-Chin Liao, Chao-Hsiu Li, Bo-Sen Peng, Li-In Wang, Sin-Mao Song, Pei-Hua Tsai, Jason Shian-Ching Jang, Ker-Chang Hsieh, Hsin-Jay Wu, Chih-Yen Chen, Jacob Chih-Ching Huang, Yu-Chieh Lo, Chung-Wei Huang</i></p>
	12:03~12:15	<p>CJ9016 On the Direction Control a Linear Feeder Driven by Two Piezoelectric Actuators <i>Wen-Hsiang Hsieh, Yan-Ping Huang</i></p>

Session C4

Date	Time	<p style="text-align: center;">Lilac</p> <p>O. Other Engineering and Technology related topics, CH. Control System and Applications, CJ. Sustainable Innovation <i>Prof. Kuo-Lan Su, Session Chair</i></p>
17th July (Wed.)	10:15~10:27	<p>SCJ9007 Comparison of Experimental Measurements and Numerical Simulations for Vertical Axis Wind Turbine Wakes in an Open-jet Wind Tunnel <i>Yu-Ting Wu, Yu-Chung Lee, Hsin-Yun Chang</i></p>
	10:27~10:39	<p>SCJ9008 Hydrogen Production via Photocatalytic Water Decomposition by Titanium Dioxide Supported on Sericite <i>Min-Chien Wu, Chao-Wei Huang</i></p>
	10:39~10:51	<p>SCJ9009 Study on Flow Meter Measurement Techniques of Aero vehicle Inlets in Subsonic of Flow Regions <i>Yi-Chung Liu, Hung-Yen Chou</i></p>
	10:51~11:03	<p>SCJ9010 Aero-thermodynamic Simulations and Analysis of Hypersonic Vehicles in Rarefied Flow <i>Chung-Chun Hsieh, Ming-Chung Lo</i></p>
	11:03~11:15	<p>SCJ9013 Operating Life Improvement of High Temperature PEM Fuel Cells with SS304 Bipolar Plates <i>Chen-Yu Chen, Ping-Hsueh Wu, Wei-Mon Yan</i></p>
	11:15~11:27	<p>SCH9001 Develop a Mobile Based Robot Arm Using the KNRm Controller <i>Kuo-Lan Su, Bo-Jun Yang, Li-Wei Hsiao</i></p>
	11:27~11:39	<p>SCH9002 Automated Optical Inspection for Golf Ball Logo Defect Detection <i>Hsien-Huang Wu, Fu-Shung He</i></p>
	11:39~11:51	<p>SCH9010 An Improved Particle Swarm Optimization Method for Optimal Motion Planning of a Mobile Robot <i>Li-Chun Lai, Chia-Nan Ko, Kuo-Lan Su</i></p>
	11:51~12:03	<p>CO9003 Recovery of Cerium Oxide Abrasive from Glass Polishing Powder Waste by Two-Liquid Flotation Method <i>Li-Pang Wang, Yan-Jhang Chen, Yun-Chen Tso, Yu-Hua Jiang</i></p>

Poster I

Date	Time	No.	Foyer
16 th July (Tue.)	08:00 10:00	1	CA9003 0D/2D P-doped ZnxCd1-xS/g-C3N4 Heterojunctions towards Highly Efficient Photocatalytic Hydrogen Evolution <i>Xiaoheng Liu, Hongfei Yin</i>
		2	CA9004 Influences of Al₂O₃/Nb₂O₅ Co-Doping on Structural Evolution and Dielectric Properties of Zn_{0.5}Ti_{0.5-x}(Al_{0.75}Nb_{0.35})_xNbO₄ (0 ≤ x ≤ 0.3) Ceramics <i>Enzhu Li, Hongyu Yang</i>
		3	CA9005 Effect of SnO₂ Substitution on Microwave Dielectric Characteristics of Zn_{0.15}Nb_{0.3}Ti_{0.55}O₂ Ceramics <i>Shuren Zhang, Hongcheng Yang</i>
		4	CA9006 Densification Behavior, Microstructure and Property of of ZnO with Multi-oxides Glass Addition at Different Sintering Temperatures <i>Boen Houng, Wei-Chueh Chien, Chen-Kai Sun</i>
		5	CA9010 The Effects of (Al_{0.5}Nb_{0.5})₄₊ on Crystal Structure and Microwave Dielectric Properties of Ba_{3.75}Nd_{9.5}Ti₁₈O₅₄ Ceramics <i>Chaowei Zhong, Bin Tang, Zhe Xiong, Shuren Zhang</i>
		6	CA9011 Effects of Ti Co-substitution of Mg/Nb on Dielectric Properties and Phase Evolution of Li₃Mg_{2-x}/3Nb_{1-2x}/3Ti_xO₆ Ceramics <i>Bin Tang, Xing Zhang, Shuren Zhang</i>
		7	CA9012 Study on Energy Storage Properties of Sr_{0.7}Ba_{0.3}Nb₂O₆ Relaxor Ferroelectrics <i>Ying Yuan, Lei Cao, Shuren Zhang</i>
		8	CA9021 Vibration Analysis of Two-Directional Functionally Graded Sandwich Beams Using a Shear Deformable Finite Element Formulation <i>Vu Nam Pham, Dinh Kien Nguyen, Buntara S. Gan</i>
		9	CA9023 Tailoring the Magnetic and Magnetocaloric Properties of the Sr- and Mo-site co-doped Ba_{1.7}Sr_{0.3}FeMo_{1-x}W_xO₆ <i>Imad Hussain, Hyung Uk Lee, Joo Hyeon Oh, Seok Hwan Huh, Bon Heun Koo</i>
		10	CA9024 Effect of Calcination Temperature on Magnetic Properties in Fe₃O₄ Nanocrystals <i>Ji Eun Lee, Bulgan Tsendenbal, Hyung Uk Lee, Joo Hyeon Oh, Bon Heun Koo, Seok Hwan Huh</i>

Poster I (Continue)

Date	Time	No.	Foyer
16 th July (Tue.)	08:00 10:00	11	SCA9003 Design and Analysis of Switched Reluctance Motors with Integrated Planetary Gear Trains <i>Guan-Chen Chen, Ruo-Yu Lee, Hong-Sen Yan</i>
		12	SCA9004 Synthesis of N-Lobed Involute Noncircular Bevel Gears <i>Kan Shi, Chao Su, Kuo-Hung Hsiao, Ji-Dai Wang, Qun-Hong Tian, Chao Chen</i>
		13	SCA9008 Conceptual Design of a 9-Speed Bicycle Transmission Hub with a Magnetic Gear-Shifting Mechanism <i>Yi-Chang Wu, Mi-Ching Tsai, Meng-Yu Hsieh</i>
		14	SCA9010 Design and Analysis of a Magnetic Gear Transmission with a Traction Mechanism <i>Yi-Chang Wu, Mi-Ching Tsai, Qi-Hua Gu</i>
		15	SCA9012 Influence of Changing Mechanical Design Parameters on Induced Torque of a Novel Asynchronous Motor <i>Wan-Tsun Tseng, Chun-Hao Sung</i>
	16	SCE9010 Optical and Electrical Properties of Zr-based Metallic Glass Film <i>Hsuan-Kai Lin, Hong-An Chen</i>	
	17	CD9007 To Develop a PLC-based Vision Alignment System with High-precision Three-axis Motorized Stage <i>Chun-Jen Chen, Min-Yen Sung, Rong-Jen Kuo, Kuan-Liang Kuo</i>	
	18	SCF9007 3D Reconstruction Algorithm for Structured-Illumination Microscopy Based on Polynomial Fitting <i>Hongzhou Yan, Changchun Chai, Jingyi Wang, Xiaojun Liu</i>	
	19	CF9001 Vehicle Detection and Recognition Using Deep Convolutional Model in Aerial Images <i>Chien-Hao Tseng, Meng-Wei Lin, Jyh-Horng Wu, Fang-Pang Lin</i>	
	20	SCB9009 Partial M-sequence Code Families Applied in P-SAC OCDMA-FSO Networks <i>Shin-Pin Tseng</i>	

Poster II

Date	Time	No.	Foyer
16 th July (Tue.)	10:10 12:25	1	CJ9003 Conceptual Design of Dual-way Transmission with Planetary Gearbox for Bicycle <i>Ting-Yu Lin, Chung-Lin Tsai, Kuen-Ming Shu</i>
		2	CJ9011 The Design and Implementation of a CNC Laser Processing Machine <i>Ming-Piao Tsai, Kuang-Chyi Lee, Tzu-Cheng Yang</i>
		3	CJ9014 Acceleration Effect on Supercritical Heat Transfer of NOVEC 649 in an Inclined Miniature Tube <i>Chih-Yun Liu, Ben-Ran Fu</i>
		4	CJ9015 Numerical Analysis of an Industrial-Scale Steam Methane Reformer <i>Chun-Lang Yeh</i>
		5	CC9003 Implementation of an Adjustable Charger Using PSoC <i>Yih-Her Yan, Yi-Hung Chen, Chun-Hui Wu</i>
		6	CC9004 A 0.6-V Wideband CMOS LNA Using Forward Body Bias <i>Jian-Ming Wu, Chih-Yu Huang, Cheng-Shong Hong, You-Ruei Jhuang</i>
		7	CC9006 Effect of Different Annealing Temperatures on ZnO Flexible Resistive Random Access Memory Bending Tests <i>Cheng-Yen Wu, Hsin-Chiang You, Yu-Hsien Lin</i>
		8	CC9007 Stretchable, Patch-Type Wireless 6-axis Inertial Measurement Unit for Mobile Health Monitoring <i>Jae Keun Lee, Kangil Kim, Sangmin Lee</i>
		9	CC9015 Vital Signal Radar with Applying Automatically Phase Control Technique for Optimal Vital Signal Detection <i>Jun-Ye Wu, Cheng-Qi Huang, Jian-Jia Hu, Yi-Chyun Chiang</i>
		10	CC9017 Comprehensive Power-Saving Diagnoses and Data Analyses <i>Rong-Jong Wai, Zhi-Fu Zhang</i>

Poster II (Continue)

Date	Time	No.	Foyer
16 th July (Tue.)	10:10 12:25	11	SCG9004 The Framework of Reversible Data Hiding in Encrypted Image Using Pixel-Value Ordering <i>Cheng-Ta Huang, Chi-Yao Weng, Yu-Ching Wu, Guang-Yih Hsu, Shiu-Jeng Wang</i>
		12	SCB9001 Intrusion Detection Technology for Wireless Power Private Network <i>Yi-Ying Zhang, Jing Shang, Bo Zhang, Fei Liu, Yuan-Long Ruan, Song Liu</i>
		13	SCB9002 Using MIMO Technology to Improve the System Performance of Wireless Orthogonal Frequency and Optical Code Division Multiplexing Systems under the Free Space Optical Setting in a Log-normal Distribution Channel <i>Chih-Ta Yen, Hsin-Han Tsai, Guan-Lin Chen</i>
		14	SCB9004 A Wireless Communication System between Inter-vehicle and Road-side Units Using Software-defined Radio Technology <i>Chi-Hung Huang, Wen-Tzu Chen</i>
		15	SCG9008 A Study on Development of Intelligent Diagnosis Aid System for Heart Valve Disease <i>Yuan-Chieh Cheng, Jin-Yi Qu, Yun-Kai Tsai, Wen-Hsien Ho, Yen-Ming J. Chen, Jyh-Horng Chou</i>
		16	SCG9010 A Novel Feature Selection Approach for EEG Classification Analysis <i>Chen-Sen Ouyang, Zong-En Cai, Rong-Ching Wu, Lung-Chang Lin, Ching-Tai Chiang, Rei-Cheng Yang, Li-Ju Huang</i>
		17	SCG9012 Surface Defect Inspection by a Fine-tuned YOLO Method for Wafer Fabrication <i>Han-Yu Lin, Jie-Yao Yang, Szu-Han Yu, Chih-Yin Liu, Tzue-Hseng S. Li</i>
		18	SCG9014 Application of Discrete Twin-space Crowding Genetic Algorithm to Multiple Feature Selection Problems <i>Chiu-Hung Chen, I-Chih Hsiung, Wen-Hsien Ho, Tung-Kuan Liu</i>
		19	SCB9006 Design and Construction of an IOT-based Cloud Management System for Elevator Industry <i>Chuen-Ching Wang, Wen-Chung Kuo, Bi-Kai Hsu, Ming-Yao Jheng</i>
		20	CC9018 RTN Analysis for Resistive Switching of ZnO Memristor <i>Chun-Cheng Lin</i>

Poster III

Date	Time	No.	Foyer
16 th July (Tue.)	13:30 15:15	1	<p>CC9016 Operation Characteristics of Wireless Power Charging from Copper Antenna at 300 K to Superconducting Receiver at 77K with 13.56 MHz under Different Materials of Cooling Vessels <i>Yoon-Do Chung, Eun-Young Park, Chang-Young Lee, Dae-Wook Kim</i></p>
		2	<p>CF9005 An Efficient Power Control Algorithm for Organic Light Emitting Diode Displays <i>Shih-Lun Chen, Yao-Tsung Kuo, Chiung-An Chen, Ting-Lan Lin, Yih-Shyh Chiou, Szu-Yin Lin, Hsiao-Chi Chen, Patricia Angela R. Abu</i></p>
		3	<p>CF9012 Efficient RSU Selection Approaches for Load Balancing in Vehicular Ad Hoc Networks <i>Chi-Fu Huang, Jyun-Hao Jhang</i></p>
		4	<p>CF9018 Evaluation for Stacked-Layer Data Bus based on Isolated Unit-size Repeater Insertion <i>Chia-Chun Tsai</i></p>
		5	<p>CF9019 Cognitive-Radio-Based Multichannel MAC Protocol for Internet-of-Things-Enabled Mobile Ad Hoc Networks <i>Chien-Min Wu, Yen-Chun Kao, Kai-Fu Chang</i></p>
		6	<p>CF9020 Scrubbing-Based Reliability and Yield Enhancement Techniques for Flash Memory <i>Shyue-Kung Lu, Wen-Chi Tsai, Chun-Lung Hsu, Chi-Tien Sun, Kohei Miyase</i></p>
		7	<p>CF9022 Noise Reduction by Self-Organizing Map for Wi-Fi Indoor Positioning System <i>Yu-Xiang Huang, Hung-Huan Liu</i></p>
		8	<p>CF9025 Monitoring Process Means with Multiply-censored Observations <i>Chauchen Torng, Jihhung Huang</i></p>
		9	<p>SCI9002 Determinants of User's Acceptance and Satisfactions on Cybersecurity Exercise System in Education: An Empirical Study <i>Chia-Lee Yang, Yi-Lang Tasi, Hsing-Yen Ann, Hong-Ji Wei, Yi-Hua Lin</i></p>
		10	<p>SCG9005 Problem-based Learning to Improve the Knowledge of Mathematics Teaching for Interns: A Case Study of a National University in Taiwan <i>Wei-Ling Tang, Jinn-Tsong Tsai</i></p>

Poster III (Continue)

Date	Time	No.	Foyer
16 th July (Tue.)	13:30 15:15	11	<p>SCG9006 Electrical Analysis of Low-voltage Electricity Consumer by using Fuzzy C-means Method and Multiple Regression Analysis <i>Chin-Hsuan Lin, Po-Yuan Yang, Tsung-Han Ho, Jinn-Tsong Tsai, Jyh-Horng Chou</i></p>
		12	<p>SCG9007 Classification and Analysis Knee Osteoarthritis Severity by Using Convolutional Neural Network <i>Chun-Chieh Huang, Hong-Siang Huang, Jinn-Tsong Tsai, Wen-Hsien Ho, Tsu-Tian Lee, Jyh-Horng Chou</i></p>
		13	<p>SCG9009 The Development of Digital Reading of Technological Pedagogical and Content Knowledge Scale of the Elementary Teachers <i>Shin-Feng Chen, Chin-Ya Fang, Jinn-Tsong Tsai</i></p>
		14	<p>SCG9013 Cost-Effectiveness Analysis of Using the UGT1A1 Genotype to Increase Irinotecan Dose Plus Bevacizumab for Metastatic Colorectal Cancer <i>Hon-Yi Shi, Ei-Len Chen, Yao-Mei Chen, Wen-Hsien Ho, Jinn-Tsong Tsai, Jaw-Yuan Wang</i></p>
		15	<p>CN9002 Mining Sequential Patterns in a Data Stream <i>Show-Jane Yen, Yue-Shi Lee</i></p>
		16	<p>CN9003 Fuzzy Algorithms for Robust Logistic Regression Analysis <i>Tai-Ning Yang, Chih-Jen Lee, Chun-Jung Chen, Shi-Jim Yen</i></p>
		17	<p>CN9006 Locating the Significant Points of Human Body in Images Using Geometric Characteristic and Color Information <i>Hong-Jhang Jiang, Chia-Feng Juang, I-Fang Chung</i></p>
		18	<p>CM9001 An Empirical Study of User Satisfaction and Continuance Usage of Virtual Reality Applications <i>Xin Xu, Guang Luo, Yue Feng</i></p>
		19	<p>CM9006 Innovative Orthosis for Phalanx Extension Neurofacilitation (iOPEN) by 3D Printing Technology for Patients with Stroke <i>Kai Chang, Meng-Heng Lai, Jih-Ying Ke, Hsin-Yu Hsu, Jer-Hao Chang</i></p>
		20	<p>CM9009 A Study for Constructing the Measurement of the Service Quality of Hospital Volunteers with Deep Learning Algorithm <i>Yi-Horng Lai, Hui-Yun Xiong, Yi-Ting Feng, Yi-Yung Jian</i></p>
		21	<p>SCB9010 Designs on a Pronunciation Recognition System with Healthcare by Acoustic and Visual Sensor Data for the Person with Abnormal Faces <i>Ing-Jr Ding, Cheng-Yu Yen</i></p>

Poster IV

Date	Time	No.	Foyer
17 th July (Wed.)	08:00 10:00	1	CL9001 Physicochemical Characteristics and Anti-human Colon Cancer Properties of Fucoidans Extracted from Sargassum Glaucescens <i>Chun-Yung Huang, Ai-Wei Kuan</i>
		2	CL9008 Lipid Recovery of <i>Mortierella Alpine</i> Using Different Cell Disruption Techniques <i>Chang-Chng Ong, Yen-Hui Chen</i>
		3	CL9009 Natural Nanoporous Filter Material as a New High-Efficiency Natural Adsorbent to Remove Textile Dyes <i>Chin-Ya Kuo, Hsiao-Han Liu</i>
		4	CL9016 Determinants, Direct and Indirect Influences of Technological Capabilities on Firm Performance <i>Hai Pham, Soo-Yong Kim</i>
		5	CL9019 The Role of Irisin in C9orf72-associated Dipeptide Repeats Neurotoxicity in iPSC-derived Neurons and Animal Models of ALS <i>Jia-Xin Gao, Ju-Hui Fu</i>
		6	CL9020 Antibacterial Activity of Chitosan and Polylactate-chitosan Fabricated Plastic Film <i>Guo-Jane Tsai, Ying-Ru Chen, Hsiang-Jung Tseng</i>
		7	CL9022 Manufacturing Heat Insulation Material from Alkali-activation Process <i>Hao-An Dai, Tung-Hsuan Lu, Ying-Liang Chen, Juu-En Chang</i>
		8	CL9024 Roof Insulation Material from Alkali-activated Slag <i>Pai-Haung Shih, Yi-Kuo Chang, Chih-Wei Huang</i>
		9	CL9025 Treatment of the Extracts of TS and AC Exhibited Apoptotic Cell Death in Human Promyelocytic Leukemia Cells <i>Hsin-Ling Yang, Ya-Ting Kuo, Yugandhar Vudhya Gowrisankar, Dony Chacko Mathew, Varadharajan Thiyagarajan</i>
		10	CL9026 Pilot-scale Manufacturing of Porous Fire-proof Materials from Alkali-activated Slag <i>Pai-Haung Shih, Chi-Zhen Pan, Yi-Kuo Chang, Tung-Hsuan Lu, Juu-En Chang</i>

Poster IV (Continue)

Date	Time	No.	Foyer
17 th July (Wed.)	08:00 10:00	11	CL9027 Anti-photoaging and Dermato-protective Efficacy of ZER on UVA-irradiated Human Skin Fibroblast Cells <i>You-Cheng Hseu, Chih-Ting Chang, Yugandhar Vudhya Gowrisankar, Xuan-Zao Chen</i>
		12	SCL9001 Third Body and Dissipation Energy in Green Tribology Film <i>Shih-Chen Shi, Shia-Seng Pek</i>
		13	SCL9002 Performance Effects of Different Table Tennis Ball Materials <i>Yu-Fen Chen, Chen-Chih Huang</i>
		14	SCL9003 The Study of Sol-gel coated Double Notched Long Period Grating for CO Gas Sensing <i>Yen-Lung Chou, Hsiang-Chang Hsu, Yu-Cheng Hsieh, Tzu-Hsuan Huang, Chia-Chin Chiang</i>
		15	SCL9004 Mechanical Behavior and Microstructural Evolution of TiAl Based Intermetallic Alloy <i>Tao-Hsing Chen, Ting-Yang Zeng</i>
		16	SCL9005 Long Period Fiber Grating for Relative Humidity Sensing <i>Chao-Wei Wu, Chia-Chin Chiang</i>
		17	SCL9007 Study on Strain Measurement of Underwater Vessel Shocking by FBG Sensors <i>Ya-Hui Chen, Ching-Yu Hsu, Tso-Sheng Hsieh, Chia-Chin Chiang, Tao-Hsing Chen</i>
		18	SCL9008 Study of Anti-smudge(AS) Coating by Using Microwaves Drying Process <i>Cheng-Chien Wang, Bo-Jun Wang</i>
		19	SCL9009 Surface Topography Simulation of Laser Metal Deposition of Ti-6Al-4V <i>Shang-Ping Wei, Kai-Chun Lin, Poon Sian Zheng, Chen-Yuan Lee, Ah-Der Lin, Chao-Ming Hsu</i>
		20	CF9021 A Text Analysis-based Approach for Cognitive Distortion Recognition <i>You-Cheng Li, Ching-Ting Huang, Wei-Yang Lin, Yu-Chun Juan, Hsin-Chin Chen, Min-Hung Teng</i>
21	CA9025 Spray-drying synthesis of Fluorine-doped LiNi_{0.5}Mn_{1.5}O₄ Cathode for Lithium-ion batteries <i>Chang-Peng Shih, Jeng-Yu Lin</i>		

Poster V

Date	Time	No.	Foyer
17 th July (Wed.)	10:15 12:00	1	<p>SCH9004 The Vision Based Positioning System Development for Food Service Robot <i>Chia J. Lin, Chun C. Lai, Chin S. Chen, Kuo L. Su</i></p>
		2	<p>SCH9005 A Study on the Variation of Oceanographic Data in East Sea of the South Korea by Typhoon SOULIK: Construction of Air-Sea Observation Network Node Using the Wave Glider and Underwater Glider <i>Jong-Wu Hyeon, Sung-Hyub Ko, Shinje Lee, TaeJun Moh, Lee-Sun Yoo, Seom-Kyu Jung, Jung-Han Lee</i></p>
		3	<p>SCH9006 Estimation of the PCB Production Process Using a Neural Network <i>Kuo-Hsien Hsia, Jr. Hung Guo</i></p>
		4	<p>SCH9007 Patrol Car of Gas Concentration and PM2.5 Detection with Remote Control <i>Kuo-Hsien Hsia, Jr. Hong Guo, Hsiang-Ren Cheng, Meng-Hsiang Yen, Kuo-Lan Su</i></p>
		5	<p>SCH9008 An Intelligent Control for Path Optimization System <i>Li-Chun Lai, Chia-Nan Ko</i></p>
		6	<p>SCH9012 Separation of Two-dimensional Mixed Circular Fringe Patterns Based on the Sparsity Characteristics in Fractional Fourier Transform Domain <i>Hsuan-Ting Chang, Tzu-Yao Lin, Chian-Cheng Ho</i></p>
		7	<p>CG9001 Applications of Membrane Hydrocyclone-Recovery of Silicon Carbide Powder <i>Yen-Cheng Tsai, Chen-Yang Hsu, Rome-Ming Wu</i></p>
		8	<p>CG9004 Vision Technology Based Traffic Safety Analysis Using Signal Data <i>Wonho Suh, Jung Ryul Kim, Joongmin Cho</i></p>
		9	<p>CG9011 Leaching Characteristics of Alkali Activated Cement Mortar Blended with Desulfurization Slags <i>Tsung-Tseng Lin, Jhe-Yu Wu, Juu-En Chang, Dong-Shyuan Lu, Pai-Haung Shih, Yi-Kuo Chang</i></p>
		10	<p>CG9012 Grade of Calcined MgO on Expansion of Cement Paste <i>Tung-Hsuan Lu, Pai-Haung Shih, Chi-Man Choi, Ying-Liang Chen, Yi-Kuo Chang, Juu-En Chang</i></p>

Poster V (Continue)

Date	Time	No.	Foyer
17 th July (Wed.)	10:15 12:00	11	CE9004 Synthesis of Stimuli-Responsive Polypeptide Nanogels and Polypeptide/Silica Hybrid Nanogels by Microemulsion for Drug and Protein Delivery <i>Li-Wen Hsiao, Jeng-Shiung Jan</i>
		12	CE9007 Ultrasound Protects against Aβ-Mediated Cell Death <i>Feng-Yi Yang, Tao-Tao Chen</i>
		13	CE9008 Sensory Evaluation and Melting Kinetics of Ice Cream Prepared with Tremella Fuciformis as Replacement for Stabilizer <i>Shu-Yao Tsai, Yu-Tzu Hung, Chun-Ping Lin</i>
		14	CK9001 Hyperthermia Protection of Streptococcus Pyogenes Infection by NIR-irradiated Au Nanoparticles <i>Yau-Sheng Tsai, Tzu-Yin Lin, Yu-Chie Chen, Pei-Jane Tsai</i>
		15	CK9004 Hydrothermally Grown ZnO Nanoflowers on a Template-assisted Ordered Seed Arrays <i>Fang-Hsing Wang, Ching-Shan Wang, Han-Wen Liu</i>
		16	CO9011 Design and Performance Test of Water Scrubbing and Desulphurization System for Biogas <i>Cheng-Chang Lien, Wei-Cheng Lin</i>
		17	CO9015 Experimental Setup and Preliminary Study of Detecting Eggshell Crack with Thermal Imaging <i>Jeng-Liang Lin, Po-Ting Chou</i>
		18	CO9016 Fatigue Driving Detection Based on Mobile Deep Learning Network <i>Chi-Chen Wang, Shaou-Gang Miaou</i>
		19	SCF9008 Synthesis of Water-soluble Magnetic Nanoparticles Carrying Urokinase for Thrombolysis <i>Qian Li, Xiaojun Liu, Zhen Lu, Ming Chang, Zili Lei</i>
		20	SCB9007 Integrated Circuit Switch-based Random Wavelength Hopping and Intelligent Early-Warning Scheme for Protecting against Eavesdropping <i>Yao-Tang Chang</i>
		21	CM9010 Community Risk Prevention with Big Data <i>Nan Jia, Yongqiang Chen, Jing Qian, Yi Liu</i>