

## Online Poster B1

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	08:00   10:00	1	<b>CF221</b> <b>Human Climbing Action Recognition Using Pose Estimation and LSTM</b> <i>Chien-Hao Tseng, Meng-Wei Lin, Jyh-Horng Wu</i>
		2	<b>CF223</b> <b>Aircraft Detection and Registration Number Recognition System with YOLO and OCR</b> <i>Jin-Kyeong Seo, Je-Hong Park, Won-Hyuk Choi, Min-Seok Jie</i>
		3	<b>CF224</b> <b>A Study on the Deception Effectiveness of Chaff Dispense Program against TTR</b> <i>Min-Jun Choi, Je-Hong Park, Min-Seok Jie, Won-Hyuk Choi</i>
		4	<b>CL221</b> <b>Research and Development of Environmental Monitoring Alarm and Automatic Flag Control System for Barracks</b> <i>Ming-Sen Hu</i>
		5	<b>WA221</b> <b>Longitudinal Changes in Cognition, Multiple Sensory Functions, and Gait Function in a Cohort of Older Individuals</b> <i>Emilija Kostic, Kiyoung Kwak, Sinyoung Lee, Dongwook Kim</i>
		6	<b>WA222</b> <b>Association of Multiple Sensory and Gait Functions with the Cognitive Function in Older Adults</b> <i>Emilija Kostic, Kiyoung Kwak, Sinyoung Lee, Dongwook Kim</i>
		7	<b>WA223</b> <b>Gait and Sensory Functions Based Classification of Amnestic and Non-Amnestic Mild Cognitive Impairment in Older Individuals</b> <i>Sinyoung Lee, Kiyoung Kwak, Emilija Kostic, Dongwook Kim</i>
		8	<b>WB221</b> <b>Kinematic and Kinetic Analysis of the Effect of Multi-Channel Sensory Stimulation Applied to Sit-to-Stand Movement of the Elderly</b> <i>Huigyun Kim, Kiyoung Kwak, Dongwook Kim</i>
		9	<b>WB222</b> <b>Relations between Level-Walking Variability and the Phases of the Cognitive Decline in the Korean Older Adults</b> <i>Kiyoung Kwak, Emilija Kostic, Sinyoung Lee, Dongwook Kim</i>
		10	<b>WD221</b> <b>A Study to Develop Design Process to Improve Use Error-Resistance of Medical Devices</b> <i>Ji-Young Won, Hong-Seok Lim, Sung-Min Kim</i>

## Online Poster B1 (Continued)

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	08:00   10:00	11	<b>WE221</b> <b>The Cerebrovascular Response to Carbon Dioxide during Hyperventilation in Diabetic Autonomic Neuropathy Patients</b> <i>Shyan-Lung Lin, Shoou-Jeng Yeh, Ching-Kun Chen, Chung-Chieh Lo</i>
		12	<b>F205</b> <b>Evaluation Method of Reconfigurable Asset Architecture</b> <i>Han-Yong Choi</i>
		13	<b>L201</b> <b>Optimal Template Mask for Detecting Markers in DNA Microarray Chip Images</b> <i>Chan-Young Park</i>
		14	<b>L203</b> <b>Analysis and Research on Satisfaction of Nursing Quality in Friendly Institutions for the Elderly</b> <i>Su-Jung Liao, Tse-Tsung Liu, Yu-Wen Fang</i>
		15	<b>L204</b> <b>Analysis of the Correlation between Healthy Lifestyle Patterns and Work Stress-Psychiatric Nurses as an Example</b> <i>Ying-Hui Xu, Su-Jung Lio, Yu-Wen Fang, Szu-Mei Hsiao</i>
		16	<b>L205</b> <b>Flood Prediction Using Convolution Neural Network</b> <i>Cheng-Hsiung Tsai, Chih-Lung Tseng, Lichun Chiang, Nai-Hsiang Sun, Po-Jui Chiang</i>
		17	<b>L206</b> <b>A Novel Method of Noise Energy Harvesting Applications by Using Flexible Plastic-Base Spiral Array Coils</b> <i>Ching-Hsuan Yen, Cheng-Hung Lin, Jium-Ming Lin, Chien-Kun Su</i>

## Online Poster B2

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	10:15   12:00	1	<b>TB221</b> <b>Fabrication of Zeolitic Imidazolate Framework-8 (ZIF-8) Derived Carbons for Carbon Dioxide Capture</b> <i>Yu-Chun Chiang, Wei-Ting Chin</i>
		2	<b>TC221</b> <b>A Personality-Oriented Interactive Architecture Design Method for Children with Emotional/ Behavioral Disorders</b> <i>Ye Zhang, Xingwei Xiang, Kezhen Chen</i>
		3	<b>G201</b> <b>Benefit Analysis of Pavement Engineering in Low Impact Development</b> <i>Min-Che Ho, Yi-Shain Chiou, Yueh-Tan Lee, Li-Ling Huang</i>
		4	<b>G205</b> <b>Oxide Ballast Applied to Road Base Layer</b> <i>Yi-Peng Lin, Wei-Chun Chen, Min-Fang Ku, Han-Ying Chen</i>
		5	<b>G206</b> <b>Quantification of Floc Growth for Sediment with Mixing Intensity</b> <i>Dong-Hyun Kim, Young-Jun Bang, Hyung-Ju Yoo, Seung-Oh Lee</i>
		6	<b>O203</b> <b>Research on Sport Passion and Mental Toughness Predicting Psychological Empowerment among Professional Athletes</b> <i>Wei-Yang Huang, Kuang-Chung Wang, Cheng-En Wu</i>
		7	<b>O204</b> <b>A Study on the Impact of Home Isolation of College Students on Exercise Behavior Habits During the COVID-19 Epidemic</b> <i>Wei-Yang Huang, Fan Chia, Cheng-En Wu</i>
		8	<b>O205</b> <b>Location Selection and Capacity Allocation Problem by Gradual and Cooperative Distance-Dependent Facility Coverage Model</b> <i>Sheng-Chuan Wang, Ta-Cheng Chen, Akash Pal, Sourasis Chattopadhyay</i>
		9	<b>O209</b> <b>Risk Assessment for Operational Technology Field</b> <i>Chien-Yao Huang, Wan-Yi Hou, Hui-Jean Kuo, Hsiao-Yu Chou, Jung-Hsing Wang, Vipin Ding, Chung-Ying Wang</i>
		10	<b>G207</b> <b>Estimation of Variability on Mixed Layer with Sea Level Rise: Application of SCHISM</b> <i>Hyung-Ju Yoo, Joon-Soo Lee, Sung-Woo Lee, Seung-Oh Lee</i>

**Online Poster B2 (Continued)**

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	10:15   12:00	11	<b>G209</b> <b>A Novel Crack-Measuring System Based on Laser Projection and Image Processing</b> <i>Wen-Yi Chang, Tai-Shan Liao, Franco Lin, Chien-Heng Wu</i>
		12	<b>SJ201</b> <b>Geo-Semantic Clustering of Land-Use Zones According to Regulations on Constructing Buildings and Facilities</b> <i>Yong Huh, Jung-Ok Kim, Jae-Kang Lee</i>
		13	<b>SJ203</b> <b>Monitoring of Possible Activities of Yangsan Faults Using GNSS</b> <i>Hee-Un Kim, Tae-Suk Bae</i>
		14	<b>SJ215</b> <b>3D Displacement Measurement of Railway Bridge According to Cyclic Loads of Different Types of Railcars with Sequential Photogrammetry</b> <i>Hyoseong Lee, Jaehong Oh</i>
		15	<b>SJ213</b> <b>Bridge Damage Detection Using Super-Resolution with Deep Learning</b> <i>Jung-Ok Kim, Yong Huh, Jae-Kang Lee</i>
		16	<b>SJ209</b> <b>Accuracy Assessment of Settlement Calculations Using Drone LiDAR in Soft Ground</b> <i>Jae-Cheol Lee, Jung-Hyun Kim, Doo-Yong Cho, Dong-Ha Lee</i>
		17	<b>SJ210</b> <b>Accuracy Assessment of Global Mean Sea Level Model Using Tide Measurement Data in the East Coast</b> <i>Jae-Cheol Lee, Ki-Seop Lee, Dong-Ha Lee</i>

## Online Poster B3

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	08:00   10:00	1	<b>CI221</b> <b>Turbojet Engine Control of Unmanned Aerial Vehicle Using Artificial Intelligence Algorithm</b> <i>Je-Hong Park, Jin-Kyeong Seo, Won-Hyuk Choi, Min-Seok Jie</i>
		2	<b>WC222</b> <b>Multistream Convolutional Network for Mild Cognitive Impairment Detection</b> <i>Chien-Cheng Lee, Hong-Han (Hank) Chau, Hsiao-Lun Wang, Yi-Fang Chuang, Yawgeng Chau</i>
		3	<b>C202</b> <b>A Single-Bit Incremental Second-Order Delta-Sigma Modulator with Coarse-Fine Precharge Buffer in 180-nm CMOS</b> <i>Mookyoung Yoo, Kyeongsik Nam, Gyuri Choi, Sanggyun Kang, Byeongkwan Jin, Hyoungho Ko</i>
		4	<b>C203</b> <b>A High Input Impedance Second-Order Delta-Sigma Modulator Using Current Feedback Ping-Pong Amplifier</b> <i>Byeongkwan Jin, Kyeongsik Nam, Gyuri Choi, Mookyoung Yoo, Sanggyun Kang, Hyoungho Ko</i>
		5	<b>C204</b> <b>A Chopper-Stabilized Multipath Instrumentation Amplifier for ECG Recording Using Notch Filter in Intermediate Stage to Reduce 60-Hz Power-Line Noise</b> <i>Byeongkwan Jin, Hyunwoo Heo, Kyeongsik Nam, Gyuri Choi, Mookyoung Yoo, Sanggyun Kang, Hyeoktae Son, Kyoungwan Kim, Hyoungho Ko</i>
		6	<b>C205</b> <b>A Low-Noise 12-bit SAR ADC with RC Hybrid DAC and Auto-Zeroing FDDA Comparator</b> <i>Hyeoktae Son, Kyeongsik Nam, Gyuri Choi, Mookyoung Yoo, Sanggyun Kang, Byeongkwan Jin, Kyoungwan Kim, Hyoungho Ko</i>
		7	<b>C206</b> <b>A Low-Noise and High-Precision Chopper Stabilized Potentiostat Circuit with Dynamic Element Matching R-2R DAC for Virus Monitoring</b> <i>Sanggyun Kang, Byeongkwan Jin, Kyeongsik Nam, Gyuri Choi, Mookyoung Yoo, Hyoungho Ko</i>
		8	<b>C207</b> <b>Low-Noise Potentiostat Readout Circuit with Chopper Fully Differential Difference Amplifier for Glucose Monitoring</b> <i>Gyuri Choi, Kyeongsik Nam, Sanggyun Kang, Byeongkwan Jin, Mookyoung Yoo, Hyoungho Ko</i>

## Online Poster B3 (Continued)

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	08:00   10:00	9	<b>C208</b> <b>Current Feedback Instrumentation Amplifier with 2-Channel Chopper Spike Reduction Fill-in Technique</b> <i>Gyuri Choi, Kyeongsik Nam, Sanggyun Kang, Byeongkwan Jin, Mookyoung Yoo, Hyoungho Ko</i>
		10	<b>C209</b> <b>A Low-Noise and Low-Power Amplifier with Common Mode Charge Pump Using Window Comparator Robust to Common Mode Interference for Two-Electrode ECG Recording</b> <i>Kyeongsik Nam, Gyuri Choi, Mookyoung Yoo, Sanggyun Kang, Byeongkwan Jin, Hyoungho Ko</i>
		11	<b>C210</b> <b>Maximal Covering Cooperative Wireless Sensor Networks (WSNs) Problem with Multi-Type Sensors</b> <i>Ta-Cheng Chen, Seng-Chuan Wang, Sourasis Chattopadhyay, Akash Pal</i>
		12	<b>C211</b> <b>Sound Activity Monitor Circuit for Low Power Consumption of Always-on Microphone Applications</b> <i>Jinki Kim, Jounyoung Jang, Jong Pal Kim</i>
		13	<b>C212</b> <b>Pseudo-Resistors Compensated for Temperature Variation</b> <i>Jinki Kim, Jong Pal Kim</i>
		14	<b>C213</b> <b>A Comparator with Input Mismatch Function</b> <i>Jinki Kim, Jong Pal Kim</i>
		15	<b>C214</b> <b>An Instrumentation Amplifier with Signal Folding Technique for Wide Input Range</b> <i>Jinki Kim, Jong Pal Kim</i>
		16	<b>C215</b> <b>Water-Powered ECG R-Peak Detection and Display Driver Circuit</b> <i>Jinki Kim, Jong Pal Kim</i>
		17	<b>YC104</b> <b>Design of Data Synchronization Method for Apache Kafka</b> <i>Yu-Ching Lin</i>

Online Poster B4

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	10:15   12:00	1	<b>SB214</b> <b>Two-Level Optimization of Warehouse Picking Operation Considering Dynamic Order Constraints</b> <i>Yueming Xu, Shibo Ouyang, Lei Wang, Yuqiang An, Xiao Ye</i>
		2	<b>SB218</b> <b>Hybrid Particle Swarm-Based Whale Optimization Algorithm for Train Optimization Decision Problem</b> <i>Xianguang Jia, Renxin Xiao, Fengxiang Guo, Guangyi Zhai, Rong Yan</i>
		3	<b>SB219</b> <b>Optimisation of Flight Sequencing of Departures under Multiple Runway Conditions</b> <i>Nan Pan, Weixi Zhao, Xingzhi Lilei, Xianguang Jia, Renxin Xiao</i>
		4	<b>SG201</b> <b>Research on Multi-Objective Optimization of Turning Hardening AISI D2 Die Steel by Ultrasonic Vibration-Assisted Turning System</b> <i>Wei-Tai Huang, Xi-Sang Chen, Wen-Hsien Ho, Jinn-Tsong Tsai</i>
		5	<b>SG202</b> <b>Research on a Backbone Network of Single Shot Detector with Its Optimized Algorithm Hyperparameters for Object Detection</b> <i>Wei-Tai Huang, Yenming J. Chen, Jinn-Tsong Tsai, Wen-Hsien Ho</i>
		6	<b>SG203</b> <b>Hyperparameter Optimization of Tapping Center Machines Model Using Robust Whale Optimization Algorithm</b> <i>Po-Yuan Yang, Ping-Yueh Chang</i>
		7	<b>SG204</b> <b>Hybrid Regression-Fuzzy Inference Method in Compensation Model Design of Thermal Displacement for Machine Tool Spindle</b> <i>Ping-Yueh Chang, Po-Yuan Yang, Fu-I Chou, Shao-Hsien Chen</i>
		8	<b>SG205</b> <b>Toward Improving Student Motivations in Introductory Programming Learning by Scratch: A Problem-Based Pedagogy</b> <i>Fu-Hsiang Wen, Tienhua Wu, Wei-Chih Hsu, Keyu Zhang</i>
		9	<b>SG206</b> <b>Creative Performance through Education: Assessing the Moderating Role of Personal and Contextual Variables</b> <i>Tienhua Wu, Kuang-You Tien</i>
		10	<b>SG207</b> <b>Marine Environment Learning-Based Unmanned Surface Vehicle Swarm Control</b> <i>Sang-Ki Jeong, Dae-Hyeong Ji, Ji-Hyeong Lee</i>

## Online Poster B4 (Continued)

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	10:15   12:00	11	<b>SG208</b> <b>Design and Analysis of the High-Speed Underwater Glider with a Bladder-Type Buoyancy Engine</b> <i>Dae-Hyeong Ji, Sang-Ki Jeong, Jung-Han Lee, Sung-Hyub Ko, Jong-Wu Hyeon, Ji-Hyeong Lee</i>
		12	<b>SG209</b> <b>Development of Unmanned Surface Vehicle with Swarm Control Algorithm and Experiment on the Real Sea Area</b> <i>Jihyong Lee, Sang-Ki Jeong</i>
		13	<b>SG211</b> <b>Intelligent Synthesis of Hyperspectral Images from an Ordinary RGB Camera in Latent Sparse Space Reconstruction</b> <i>Yenming J. Chen, Jinn-Tsong Tsai, Chin-Lan Chen, Wen-Hsien Ho</i>
		14	<b>D204</b> <b>Using Autoencoder Artificial Neural Network to Predict Photonic Crystal Band Structure</b> <i>Wei-Shan Chang, Ying-Pin Tsai, Chi-Tsung Chiang, Fu-Li Hsiao</i>
		15	<b>K202</b> <b>Predicting Band Structures of Two Dimensional Phononic Crystal Slab Based on Artificial Neural Network</b> <i>Chi-Tsung Chiang, Ying-Pin Tsai, Wei-Shan Chang, Fu-Li Hsiao</i>
		16	<b>D207</b> <b>Calibration of a Rotary Encoder and a Polygon Using a Two-Autocollimator Method</b> <i>Tsung-Han Hsieh, Kuan-Ting Yeh, Ming-Xian Lin</i>
		17	<b>D203</b> <b>The Shuffle Spatial Light Modulator-Based OAM/PDM Multiplexing Optical Vortex Scheme Protecting against Deep Learning Attacks</b> <i>Yao-Tang Chang</i>



## Online Poster C1

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	08:00   10:00	1	<b>SB201</b> <b>Study on High-Altitude Inspection Technology of UAV Substation Based on Multi-Sensor Fusion</b> <i>Xiaohua Yang, Xiao Ye, Jianing Cao, Rong Yan, Xiaojue Guo, Jisheng Huang</i>
		2	<b>SB202</b> <b>Study on Green Logistics Vehicle Dispatching under Smart IOT</b> <i>Jianing Cao, Jingcheng Zhang, Mingxian Liu, Shi Yin, Yuqiang An</i>
		3	<b>SB203</b> <b>Track Planning for Damage Detection on the Building Enclosure by UAV Considering Image Detection</b> <i>Nan Pan, Miaohan Zhang, Xiaohua Yang, Shiyun Chen</i>
		4	<b>SB204</b> <b>Study on the 'first Kilometer' Scheduling Task of Multi-UAV Based on Multisource Heterogeneous Sensors</b> <i>Xiaohua Yang, Miaohan Zhang, Nan Pan, Yuhang Han</i>
		5	<b>SB205</b> <b>Six-Degree-of-Freedom Redundant Task Trajectory Planning of Industrial Robotic Arm Based on Improving Chaotic Sparrow Search Algorithm</b> <i>Mingxian Liu, Jibiao Li, Hong Yu, Jing Bao, Xin Shen, Nan Pan</i>
		6	<b>SB206</b> <b>Power-Assisted Model of Industrial Exoskeleton Device Based on Swarm Intelligence Algorithm and Dynamics Optimization</b> <i>Mingxian Liu, Jing Bao, Hong Yu, Kang Chen, Xinbo Zhou</i>
		7	<b>SB207</b> <b>Optimal Control of CNC Machining Tool Motion for Improved Operational Stability</b> <i>Jibiao Li, Wenting Wang, Mingxian Liu, Hong Yu, Kang Chen, Jianing Cao</i>
		8	<b>SB208</b> <b>Modeling of 'Fingerprint' Characteristics of Wireless Channel in Mobile Communication</b> <i>Songhua Hu, Chunhao Yang, Zuwei Hu, Mingxian Liu, Zhenwei Wang, Shi Yin</i>
		9	<b>SB209</b> <b>Classification and Prediction of Heavy Overload in Low Voltage Distribution Substation Based on Byes LSTM-CNN Hybrid Neural Network</b> <i>Xiaohua Yang, Hao Yang, Jiayi Zhu, Yiming Zhang, Nan Pan</i>
		10	<b>SB210</b> <b>Load Identification of Low Voltage Station Area Based on Deep Reinforcement Learning</b> <i>Xiaohua Yang, Hao Yang, Xinbo Zhou, Xin Shen, Shibo Pan, Shi Yin</i>

## Online Poster C1 (Continued)

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	08:00   10:00	11	<b>SB211</b> <b>Study on the Detection of Bullet Rifling Marks Based on Deep Learning</b> <i>Nan Pan, Shibo Pan, Shi Yin, Xianguagn Jia, Zhao Luo</i>
		12	<b>SB212</b> <b>Vendor Selection and Task Assignment in Enterprise Purchasing Management</b> <i>Zhaolei He, Cong Lin, Jing Zhao, Hengjie Yu, Rui Fang, Jin Liu, Xiaofang Wang, Shi Yin</i>
		13	<b>SB213</b> <b>Barcode and Damage Identification for Industrial Packaging Surface Based on Deep Learning</b> <i>Shibo Ouyang, Yanan Li, Yueming Xu, Qingyou Zhang, Xiao Ye</i>
		14	<b>SB215</b> <b>Study on the Logistics Scheduling Model of Finished Cigarettes Considering Multi-Dimensional Objective Optimization</b> <i>Yuqiang An, Yueming Xu, Lei Wang, Shibo Ouyang, Miaohan Zhang</i>
		15	<b>SB216</b> <b>Study on Complex 3D Packing Model for Tobacco Logistics</b> <i>Xiaofang Wang, Xianglei Wang, Haijun Chen, Lei Wang, Shi Yin</i>
		16	<b>SB217</b> <b>Ship Berthing Optimization Strategy Considering Epidemic Prevention and Control</b> <i>Xianguang Jia, Yuhang Han, Fengxiang Guo, Rong Yan, Weixi Zhao</i>
		17	<b>SF202</b> <b>Voice Interaction Recognition Design for Mobile Robot Applications</b> <i>Shih-An Li, Yun-Chien Chen, Yu-Ying Liu, Hsuan-Ming Feng</i>

## Online Poster C2

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	10:15   12:00	1	<b>E201</b> <b>Implementation Method of Skin-Conformable Wireless System Using UV Release Tape for Continuous Physiological Sensing</b> <i>Seung-Ju Han, Kang-Il Kim, Chang-Hee Kim, Sang-Min Lee</i>
		2	<b>E202</b> <b>Implantable Nanostructured Microelectrode Array with Biphasic Current Stimulator for Retinal Prostheses</b> <i>Kang-Il Kim, Seung-Ju Han, Chang-Hee Kim, Sang-Min Lee</i>
		3	<b>K201</b> <b>The Development of Critical Dimensions X-Ray Reflectivity Measurement Equipment for Gate-All-Around Structure</b> <i>Guo-Dung Chen, Bo-Ching He, Chun-Ting Liu, Chun-Yu Liu, Wei-En Fu, Wen-Li Wu</i>
		4	<b>SH201</b> <b>Research on Detecting Blood Cells in Microscopic Smear Images by Using Single Shot Detector</b> <i>Yao-Mei Chen, Jinn-Tsong Tsai, Wen-Hsien Ho</i>
		5	<b>SH202</b> <b>A Personalized Strength Assessment Device: Using Sound Injection Resonance and Artificial Intelligence in Real-Time Feedback</b> <i>Wen-Hsien Ho, Jinn-Tsong Tsai, Chien-Ming Wu, Yenming J. Chen</i>
		6	<b>SI205</b> <b>Development of Offline Signature Verification Algorithm</b> <i>Tai-Rong Wu, Shyang-Jye Chang</i>
		7	<b>SI206</b> <b>Development of MLOps-Based AIoT Platform Using AutoML Federated Transfer Learning Method</b> <i>Chung-Chi Huang, Chung-Lin Huang, Hao-Chen Hou, Hau-Chen Yen, Chin-Jung Chang</i>
		8	<b>SI207</b> <b>An Intellegnt Prediction of Satisfication of International Students from the Intercultural Sensitivity Assement of Staffs in University Campus</b> <i>Chung-Lin Huang, Chung-Chi Huang</i>
		9	<b>SI208</b> <b>Machine Learning Based Digital Transform Platform for Customized Micro-Travel Course Design of Elderly Health Promotion</b> <i>Hsiao-Man Liu, Chung-Chi Huang, Chung-Lin Huang, Chin-Jung Chang</i>
		10	<b>SI209</b> <b>Multi-Scale Modified U-Net Using Dilated Convolution for Image Deblurring</b> <i>Song-Yih Lin, Jen-Chun Lee, Guan-Zhang Huang</i>

## Online Poster C2 (Continued)

Date	Time	No.	
29 <sup>th</sup> Oct. (Sat.)	10:15   12:00	11	<b>SN201</b> <b>Aviation Network Vulnerability Index Development Based on Coalitional Game Theory</b> <i>Ki-Han Song, Solsaem Choi, Wonho Suh</i>
		12	<b>SN202</b> <b>Robust Decision Making Methodology for Road Safety Management System</b> <i>Solsaem Choi, Ki-Han Song, Wonho Suh</i>
		13	<b>SN203</b> <b>Influencing Factors on Shortterm International Aviation Traffic Volume Change Using SHAP Analysis</b> <i>Ki-Han Song, Solsaem Choi, Wonho Suh</i>
		14	<b>SN204</b> <b>Emission Estimation in Urban Areas Using Microscopic Traffic Simulation</b> <i>Sunhee Jang, Ki-Han Song, Daejin Kim, Wonho Suh</i>
		15	<b>SN205</b> <b>Parking Lot Operational Analysis Using Microscopic Traffic Simulation</b> <i>Sung-Ha Kim, Chae-Rin Lee, Ki-Han Song, Wonho Suh</i>
		16	<b>SN206</b> <b>Structural Performance of a New Steel-Composite Beam Integrated with Rib Deckplates</b> <i>Jin-Won Kim, Hong-Jun Son, Chan-Hyun Park, Dae-Jin Kim</i>
		17	<b>SN207</b> <b>Experimental Investigation on the Reinforced Concrete Boundary Beam-Wall System Subjected to Axial Load</b> <i>Jin-Ju Han, Hong-Jun Son, Dae-Jin Kim</i>

## Online Poster C3

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	08:00   10:00	1	<b>YC101</b> <b>The Use of Energy-Saving Paddlewheel in Emergency Rescue</b> <i>Feng-Tsang Wu, Wei-Hsiung Tseng, Wei-Lung Wu, Jhih-Jhen Dong</i>
		2	<b>YC102</b> <b>The Use of Plasma Electrolysis in Smoke Purification</b> <i>Jheng-Long Chen, Chin-Ang Li, Feng-Tsang Wu, Yu-Wen Huang</i>
		3	<b>H201</b> <b>Account Security Management in Industrial Control System Field</b> <i>Hsiao-Yu Chou, Chien-Yao Huang, Hui-Jean Kuo, Jung-Hsing Wang, Vipin Ting, Chung-Ying Wang, Yu-Wei Lin, Fong-Zhi Chen</i>
		4	<b>H203</b> <b>SCADA in Industrial Automation and Control Systems Field</b> <i>Chen-Yu Lin, Hsiao-Yu Chou, Chien-Yao Huang, Vipin Ting, Hui-Jean Kuo, Yu-Wei Lin, Fong-Zhi Chen</i>
		5	<b>H204</b> <b>Strengthening Cybersecurity for Work-from-Home in Manufacturing</b> <i>Vipin Ting, Chun-Chen Chuang, Wan-Yi Hou, Hsiao-Yu Chou, Chien-Yao Huang, Yu-Wei Lin, Fong-Zhi Chen</i>
		6	<b>H205</b> <b>A Practical Use Case of 5G Signals and 5G Application Server</b> <i>Chung-Ying Wang, Chien-Yao Huang, Vipin Ting, Chun-Chen Chuang, Hsiao-Yu Chou, Fong-Zhi Chen</i>
		7	<b>J201</b> <b>Response and Failure of Round-Hole Tubes with Different Hole Diameters and Hole Directions under Cyclic Bending with Different Curvature Ratios</b> <i>Kuo-Long Lee, Yu-An Chen, Wen-Fung Pan</i>
		8	<b>J203</b> <b>A Novel Measuring Method for Rotary Table Geometric Errors by Using a LaserTRACER</b> <i>Chi-Hua Hsu, Jr-Rung Chen, Tsung-Han Hsieh, Fan-Hsi Hsu, Yu-Ta Chen</i>
		9	<b>M201</b> <b>Designing and Evaluating Smartphone Applications in Pediatric Nursing Course of Nursing Students</b> <i>Hui-Man Huang, Yu-Wen Fang</i>
		10	<b>M203</b> <b>Designed a Platform to Study on the Stress and Performance Outcome for Manufacturing Employees</b> <i>Yu-Wen Fang, Chun-Yu Chen</i>

### Online Poster C3 (Continued)

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	08:00   10:00	11	<b>SD201</b> <b>A Study on Depth Camera-Based Image Signal Processing for Developments of Taiwanese Sign Language Recognition</b> <i>Ing-Jr Ding, Xin-Jie Wang</i>
		12	<b>SK203</b> <b>A Study of Automatic Assembly of Dual Robotic Arms Based on Mutual Visual Tracking and Positioning</b> <i>Bor-Jiunn Wen, Ti-Wen Liu</i>
		13	<b>SP204</b> <b>Conceptual Design of Manual Gear-Shifting Control Mechanisms for Multi-Speed Transmissions</b> <i>Yi-Chang Wu, Feng-Ming Ou, Saian Nur Fajri</i>
		14	<b>H207</b> <b>Personnel Management for Industrial Control Field Service Provider</b> <i>Hui-Jean Kuo, Chien-Yao Huang, Hsiao-Yu Chou, Jung-Hsing Wang, Vipin Ding, Chung-Ying Wang, Yu-Wei Lin, Fong-Zhi Chen</i>
		15	<b>SP205</b> <b>A Review on Structural Analysis of Trigger Mechanism of Rubber Band Gun</b> <i>Jian-Liang Lin, Kuo-Hung Hsiao</i>
		16	<b>SL204</b> <b>The Impact of Game-Based Learning on Motivation and Engagement of Computer Programming</b> <i>Meiling Jow, Yaojung Shiao</i>
		17	<b>SP207</b> <b>On a Novel Tensegrity-Based 3-DoF Vibratory Platform</b> <i>Wen-Hsiang Hsieh, Wei-Sheng Lin, Chun-Yi Kuo</i>

## Online Poster C4

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	10:15   12:00	1	<b>YD101</b> <b>Influence of Cuprous Oxide Film Process on Schottky Photodetector</b> <i>Jen-Shu Lo, Cheng-Ting Lai, Chieh-Yang Lin, Ching-Tang Hung, Cheng-Han Lin, Miao-Ju Lin, Hsin-Ya Kao, Jen-Hao Chen, Meng-Chu Chen</i>
		2	<b>A202</b> <b>Effects of the Grapevine Charcoal on the Properties of the PLA Composite</b> <i>Chien-Chung Huang, Chun-Wei Chang, Yeng-Fong Shih</i>
		3	<b>A203</b> <b>A Study of Grapevine Powder/PBS Green Composites</b> <i>Yeng-Fong Shih, Chien-Chung Huang, Chen-Bo You</i>
		4	<b>A204</b> <b>Preparation and Characterization of Nano-Graphite/Vine Charcoal Phase Change Microcapsules</b> <i>Yeng-Fong Shih, Hong-Hao Chen</i>
		5	<b>A205</b> <b>Thin Film Element Quantification via XRF Analysis Based on Calibrated Reference Samples and Sherman's Equation</b> <i>Yu-Hsin Wu, Lin Tsao, Sheng-Jui Chen</i>
		6	<b>D201</b> <b>Smart Monitoring Technology of Water Quality Using Water Color and Waterwheel Tail of Fish Farm</b> <i>Chien-Sheng Liu, Xin-Ting Chen, Wen-Yu Shih, Chia-Chen Lin, Jung-Hong Yen, Chung-Jui Huang, Yu-Teng Yen</i>
		7	<b>D202</b> <b>Design of an Auto-Tracking Laser Interferometer for Measuring Spatial Distance in Three-Dimensional Spaces</b> <i>Fan-Hsi Hsu, Jr-Rung Chen, Tsung-Han Hsieh, Yu-Ta Chen</i>
		8	<b>SO201</b> <b>Tribology Performance of Aluminum and Alumina/MoS<sub>2</sub>/Cellulose Derivative Composite</b> <i>Shih-Chen Shi, Shia-Seng Pek</i>
		9	<b>SO203</b> <b>Optimization Design of Pre-Forming for Forged Parts of Automobile Using Taguchi Method Based Grey Relational Analysis</b> <i>Jia-Wei Hu, Te-Ching Hsiao, Ming-Chang Tsai, Ming-Yuan Chiang, Shyh-Chour Huang</i>
		10	<b>D205</b> <b>WFE Derived MTF Values of Cassegrain Telescopes</b> <i>Ho-Lin Tsay, Po-Ming Lin, Chung-Chieh Lien, Hui-Jean Kuo, Ming-Fu Chen</i>

## Online Poster C4 (Continued)

Date	Time	No.	
30 <sup>th</sup> Oct. (Sun.)	10:15   12:00	11	<b>D206</b> <b>Optimal Measurement Distance of Reciprocal Projection Metrology Instrument Using Relative Illumination Analysis</b> <i>Hui-Jean Kuo, Ho-Lin Tsay, Chih-Hao Lin, Ming-Fu Chen</i>
		12	<b>SO202</b> <b>Strain Rate Effect on the Mechanical Property and Fracture Mechanism of CoCrFeNi Based High Entropy Alloy</b> <i>Chi-Fan Liu, Tao-Hsing Chen, Tzu-Tung Fang</i>
		13	<b>J217</b> <b>Uncertainty Evaluation of 3D Point Cloud Stitching Algorithm</b> <i>Sheng-Hsiang Hung, Ya-Jing Wu</i>
		14	<b>J218</b> <b>Evaluation of Point Cloud Distortion Using Image Distortion Coefficient in Stereo Vision System</b> <i>Ya-Jing Wu, Sheng-Hsiang Hung</i>
		15	<b>J219</b> <b>Development of Date Exchange through Linear Geometric Error Compensation Technology for Machine Tools</b> <i>Ming-Xian Lin, Tsung-Han Hsieh</i>
		16	<b>SP206</b> <b>On the Design of Terrain-Sensing and Mode-Switching Mechanisms for an Innovative Walking Mechanism</b> <i>Yu-Hsun Chen, Bo-Hong Lin, Chen-Yu Wang, Guan-Chen Chen</i>
		17	<b>SI214</b> <b>Study on Dual Machine Learning Based Non-Negative Decoding Delay Feedback Feature Selection</b> <i>Chung-Chi Huang, Chung-Lin Huang, Bo-Yang Ding</i>
		18	<b>CL222</b> <b>Evaluation of Blue and Green Light Colors in E-Light Trap Against Mango Leafhoppers (Hemiptera: Cicadellidae)</b> <i>Rich Oneil J. Casila, Melissa M. Ebue, Gilbert D. Deboma, Luis L. Calama, Ricky S. Barrera, Mark R. Pallera, Mahar-lahi R. Falcutila, Mark Dominic O. De Unon, Emmanuel V. Dalit, Zyurus Jay Dial, Kurt Jincer P. Gabriel</i>