

Poster B1

Date	Time	No.	1F - Foyer
24 th Oct. (Sat.)	08:00 10:00	1	B205 Designs of a Service Robot System with Human Action Understanding Using Hand Gesture Communication <i>Ing-Jr Ding, Jun-Lin Su</i>
		2	H201 Health Diagnosis of Electromechanical Systems by Neural Network Algorithm Based on Principle Component Analysis <i>Bor-Jiunn Wen, Yung-Sheng Lin, Hsing-Min Tu, Cheng-Chang Hsieh</i>
		3	H202 The Intelligent Diagnosis System Design with Augmented Reality for Electric Motors <i>Yu-Ching Lin, Wei-Chih Su, Heng-Chuan Kan, Yu-Chia Liao, Jian-Ming Lu, Yu-Kai Luo, Pao-Wen Wang, Min-Fu Hsieh, Mi-Ching Tsai</i>
		4	H205 Application of Thermal Error Monitoring System Based on Long Short Term Memory Network in Alignment Turning System <i>Chung-Ying Wang, Chien-Yao Huang, Jung-Hsing Wang, Jun-Cheng Chen, Hsiao-Yu Chou, Fong-Zhi Chen</i>
		5	H206 Optical Manufacturing Execution System Design <i>Hui-Jean Kuo, Hsiao-Yu Chou, Chien-Yao Huang, Jung Hsing Wang, Chung-Ying Wang, Fong-Zhi Chen</i>
		6	H207 A Cyber Security Case Study for CNC Vertical Lathe <i>Jung-Hsing Wang, Chien-Yao Huang, Hui-Jean Kuo, Hsiao-Yu Chou, Fong-Zhi Chen, Wei-Chih Su</i>
		7	H208 Application of MES in the Production of Precision Optical Components <i>Hsiao-Yu Chou, Hui-Jean Kuo, Jung-Hsing Wang, Chien-Yao Huang, Fong-Zhi Chen</i>
		8	SL201 Machine Learning System for Conveying Woven Labels <i>Feng-Yi Hsu, Ming-Ying Hsu, Han-Chao Chang</i>
		9	SN204 Effect of Process Parameter on the Optical and Electrical Properties for ZnO/Ag/Mo/ZnO Nano Multilayer Thin Film <i>Chi-Fan Liu, Tao-Hsing Chen, Hao-De Su</i>
		10	M202 An Exploration on the Effectiveness of Relationship Marketing between Human and AI <i>Cheng-Feng Cheng, Ta-Cheng Chen</i>



Poster B1 (Continued)

Date	Time	No.	1F - Foyer
24 th Oct. (Sat.)	08:00 10:00	11	O202 Artificial Intelligence Approaches for the One-Way Road Orientation Planning Problem <i>Yi-Chih Hsieh, Tsung-Yu Tsai</i>
		12	O208 Scheduling the Periodic Delivery of LPG Tank by Using Artificial Intelligence Approaches <i>Yi-Chih Hsieh, Cheng-Sheng Chen</i>
		13	J203 Research and Development of Oil Film Thickness Measurement Software (FTMS) Using Optical Interferometry <i>Li-Ming Chu, Chia-Wei Lee, Hsiang-Chen Hsu, Chi-Yu Liu, Tun-Hao Li</i>
		14	J206 Implementation of a Novel Axial Hybrid Magnetic Bearing with Low Power Consumption <i>Yi-Hua Fan, Liao-Yong Luo, Lu-Yu Chen, Nai-Rong Zhong, Meng-Jing Hsieh</i>
		15	J207 Design and Control of an Axial Auxiliary Magnetic Supporting System for a Magneto-Aerostatic Spindle <i>Yi-Hua Fan, Liao-Yong Luo, Lu-Yu Chen, Nai-Rong Zhong, Meng-Jing Hsieh</i>
		16	N207 Using Reinforcement Learning Based Approach for Solving the Multiple Types of Signal Base Station Deployment Problems <i>Ta-Cheng Chen, Pen-Sheng You, Sheng-Chuan Wang, Yu-Min Yu</i>
		17	J209 Response of Round-Hole Tubes under Pure Bending Creep and Pure Bending Relaxation <i>Kuo-Long Lee, Bor-You Liu, Wen-Fung Pan</i>
		18	J210 Optimal Design on Watt-Chain Double-Toggle Mold Clamping Mechanism for Injection Molding Machine <i>Long-Chang Hsieh, Tzu-Hsia Chen, Po-Chen Lai, Sheng-Wen Zheng</i>
		19	J219 Numerical Simulation of Volume Energy Density Effect on Single Track in Selective Laser Melting <i>Shyang-Jye Chang, Han-Yun Tsai</i>
		20	I204 Time-Varying Disturbance Observer Based on Regulating Boundary Layer Thickness Sliding Mode Control for MEMS Gyroscope <i>Van-Nam Giap, Shyh-Chour Huang</i>

Poster B1 (Continued)

Date	Time	No.	1F - Foyer
24 th Oct. (Sat.)	08:00 10:00	21	SL203 Study on Transfer Learning Based Scheduling System for Smart Manufacturing <i>Chung-Chi Huang, Chung-Lin Huang , Bo-Yang Ding</i>
		22	SL205 An Intellegnt Prediction of the Satisfiction of Employer from International Student Learning Performerce by using Long Short-Term Memory Method <i>Chung-Lin Huang, Chung-Chi Huang</i>
		23	SB202 Vision Based Navigation and Manipulation Algorithms for Mobile Manipulator Systems <i>Ching-Lin Kuan, Yin-Tien Wang, Chaohwa Liu, Yen Wei Chen</i>
		24	SS202 Mechanical Properties of Multiwalled Carbon Nanotube Reinforced Epoxy/Glass Fiber Composite Laminates via VaRTM Process <i>Yung-Chuan Chiou, Ming-Yuan Shen, Chien-Wei Chiang</i>



Poster B2

Date	Time	No.	1F - Foyer
24 th Oct. (Sat.)	10:15 12:30	1	N201 A Heuristic Algorithm for Medical Staff Scheduling Problems with Multiple Medical Staff Skills and Vacation Preferences <i>Peng-Sheng You</i>
		2	N208 Multi-Objective Competitive Location Problem with Multi-Level Cooperative-Covering for Distance-Dependent Facility Coverage <i>Sheng-Chuan Wang, Ta-Cheng Chen</i>
		3	N209 Hypertension Classification with Deep Learning Technologies Using Photoplethysmography Signals <i>Chih-Ta Yen, Sheng-Nan Chang, Cheng-Hong Liao</i>
		4	N210 A Heuristic Algorithm for Carton Production Scheduling Problems with Multiple Parallel Machines <i>Peng-Sheng You</i>
		5	F204 Person Retrieval in Video Surveillance using Deep Learning-Based Instance Segmentation <i>Chien-Hao Tseng, Chia-Chien Hsieh, Jyh-Horng Wu, Lun-Chi Chen</i>
		6	SD201 Designs of Hand Gesture Intention Cognition Mechanisms by Deep Learning Model-Extracted Features for Human Behavior Understanding <i>Ing-Jr Ding, Nai-Wei Zheng</i>
		7	SE201 Fuzzy Logic and Gagné Learning Hierarchy for Assessing Student Mathematics Skills <i>Wei-Ling Tang, Jinn-Tsong Tsai</i>
		8	SE202 Multiple Performance Characteristic Index (MPCI) Optimization of Dimensional Accuracy and Geometrical Shape Angle in Turn-Mill Multitasking Machining <i>Wei-Tai Huang, Shih-Cheng Yang, Wen-Hsien Ho, Jinn-Tsong Tsai</i>
		9	SE203 Image Optimization for 3D Medical Holographic Teaching System <i>Ming-Chung Chou, Wei-Tai Huang, Jinn-Tsong Tsai, Yen-Ming J. Chen, Yao-Mei Chen, Wen-Hsien Ho</i>
		10	SE205 Classification of Pneumonia Using an Ensemble Model of Convolutional Neural Networks <i>Yao-Mei Chen, Yenming J. Chen, Wen-Hsien Ho, Jinn-Tsong Tsai</i>

Poster B2 (Continued)

Date	Time	No.	1F - Foyer
24 th Oct. (Sat.)	10:15 12:30	11	SE207 Performance Comparison of Multi-Objective Algorithms and Application in Electrical Device <i>Ying Ma, Po-Yuan Yang, Fu-I Chou, Jinn-Tsong Tsai, Zhen-Yu Yang, Jyh-Horng Chou</i>
		12	SE208 Intelligent Optimization Using Recurrent Model-Predictive Control with Risk-Sensitive Filtering <i>Yenming J. Chen, Wen-Hsien Ho, Jinn-Tsong Tsai</i>
		13	SE209 Machine Learning of Cellular Automata and Evolutionary Games <i>Bor-Hon Lee, Albert Jing-Fuh Yang, Yenming J. Chen</i>
		14	SE211 Application of Fuzzy Logic and Taguchi Experimental Method for Numerical Simulation of Natural Convection in Porous Media <i>Ken-Ming Tu, Jinn-Tsong Tsai, Kuo-Ann Yih, Fu-I Chou, Jyh-Horng Chou</i>
		15	SE213 Empirical Study on Effectiveness of E-Commerce Entrepreneurial Learning: The Mediating Effect of Social Media Flow Experience <i>Tienhua Wu</i>
		16	SE214 Stable and Quadratic-Optimal Controllers Design for a Class of Time-Varying TS-Fuzzy-Model-Based Systems by Using a Complementarily Computational Approach <i>Fu-I Chou, Jyh-Horng Chou, Wen-Hsien Ho</i>
		17	SE215 User Satisfaction and Continuance Intention of an Intelligent E-Pharmacopoeia Retrieval System: Case of Students in School of Pharmacy <i>Tian-Hsiang Huang, Wan-Ling Chao, Yao-Mei Chen, Wen-Hsien Ho</i>
		18	SG201 Design Dual-Arm Mobile Robot in Human-Robot Interaction Service Applications <i>Li-Hsiang Chou, Tsung-Han Chang, Shih-An Li, Ching-Chang Wong, Hsuan-Ming Feng, Yen-Ting Lee</i>
		19	SG202 Deep Reinforcement Learning Mobile Robot Design for Dynamic Obstacle Avoiding Applications <i>Ming-Da Ruan, Shih-An Li, Ching-Chang Wong, Hsuan-Ming Feng</i>
		20	SI201 Multiple Object Tracking using YOLO-Based Detector <i>Shinfeng D. Lin, Tingyu Chang, Wensheng Chen</i>



Poster B2 (Continued)

Date	Time	No.	1F - Foyer
24 th Oct. (Sat.)	10:15 12:30	21	SL204 Intelligent Diagnosis System for Somatic Fitness and Healthcare Using Machine Learning Method <i>Hsiao-Man Liu, Chung-Chi Huang, Chung-Lin Huang, Yen-Ting Ke</i>
		22	J228 An Enriched Meshfree Method for the Analyses of Crack Problems <i>Wen-Cheng Yeh</i>
		23	SX203 Utilization of AGV-COBOT for UltraViolet-C Disinfection <i>Nirachorn Iamsawan, Eakkachi Warinsirul, Jukkapun Greebmalai, Abigyat Babu Prasa, Yin-Tien Wang</i>

Poster B3

Date	Time	No.	1F - Foyer
25 th Oct. (Sun.)	08:00 10:00	1	E201 Development of Human Skin Impedance Rapid Analysis Method for Real-Time Electrocardiography Signal Recovery <i>Yi-Xuan Wang, Chun-Lin Cheng, Yongxin Wang, Hsing-Cheng Yu</i>
		2	WA201 The Relationship between the Use of Highly Active Antiretroviral Therapy and the Development of Diabetes Mellitus in HIV-Infected Patients: An Application of Bayesian Cox Regression Analysis <i>Yi-Horng Lai</i>
		3	WB206 Proportional EMG-Based Torque Estimation for Human Knee Joint <i>Yun-Ping Sun, Huai-Min Ho, Yen-Chu Liang</i>
		4	WC202 Factors Affecting Quality of Life among Elderly People <i>Chih-Ping Li</i>
		5	WC204 Sign Language Recognition Using Two-Stream Convolutional Neural Networks with WiFi Signals <i>Chien-Cheng Lee, Zhongjian Gao</i>
		6	SF201 Thermal Face Recognition under Different Conditions <i>Shinfeng D. Lin, Luming Chen</i>
		7	SF202 Using Conditional Generative Adversarial Nets for Skin Lesion Segmentation in Dermoscopy Images <i>Ta-Cheng Chen, Chia-Ching Wang, Yin Lee, Somsak Paerattanakul</i>
		8	SF203 Classification of Age-Related Macular Degeneration Using Convolutional-Neural-Network-Based Transfer Learning <i>Yao-Mei Chen, Wei-Tai Huang, Wen-Hsien Ho, Jinn-Tsong Tsai</i>
		9	SF206 Intelligent Classification Model for Retinal Disease Using Residual Neural Networks <i>Wen-Hsien Ho, Tian-Hsiang Huang, Jyh-Horng Chou, Hong-Siang Huang, Fu-I Chou, Jinn-Tsong Tsai</i>
		10	SF207 Sound Detection of Heart Disease Using Uniform-Design-Based Convolutional Neural Networks <i>Wen-Hsien Ho, Tian-Hsiang Huang, Jyh-Horng Chou, Jin-Yi Qu, Fu-I Chou, Jinn-Tsong Tsai</i>



Poster B3 (Continued)

Date	Time	No.	1F - Foyer
25 th Oct. (Sun.)	08:00 10:00	11	G207 Study on Energy Saving and Environmental Protection Generator with Hydrogen-Oxygen-Gasoline Compound Fuel <i>Li-Ming Chu, Hsiang-Chen Hsu, Yong-Song Huang, Wei-Ya Su, Jyun-Yao Hong</i>
		12	G210 Bio Cellulose Membrane as Separators for Transparent Microbial Fuel Cells <i>Yu-Chang Jiang, Chia-Yu Wang, Yi-Yun Liao, Yi-Cian Lin, Jane-Yii Wu</i>
		13	SK202 The Study of Building a Mechanical Erosion Model for Disposition Hole <i>Jia-Sheng Chiou, Chung-Yue Wang, Yaun-Chieh Wu</i>
		14	SK203 Hydraulic-Mechanical Modeling Research on Pore Pressure of Fracture and Coseismic Fracture Behavior <i>Chih-Cheng Chung, Chi-Jen Chen, Yuan-Chieh Wu</i>
		15	ST201 Confinement Effects of New Binding Clips Attached to Ties of Axially Loaded RC Columns <i>Kyoung-Yeun Park, Yong-Joo Kim, Jin-Joo Han, Dae-Jin Kim</i>
		16	L203 Development of Improved pH Module and Miniaturized Water Quality Detection System <i>Chung-Kai Chi, Ming-Yang Tsai, Chun-Lin Cheng, Jung-How Wang, Szu-Ju Li, Yongxin Wang, Hsing-Cheng Yu</i>
		17	L209 Study on the Separation of Phycoerythrin by Fern by High Performance Liquid Chromatography (HPLC) <i>Mei-Ling Fang, Yu-Shao Lai, Su-Fan Lin, Ko-Yuan Liang, Bo-Wun Huang, Guo-Ping Chang-Chien</i>
		18	TB205 Hollow Carbon Nanofibers Prepared by Electrospinning on the Application of Carbon Dioxide Capture <i>Yu-Chun Chiang, Chia-Hua Yang, Cheng-Lun Hung</i>
		19	TB206 Improve Identifying Glyphosate in Water by Liquid Chromatograph/Mass Spectrometer <i>Ko-Yuan Liang, Su-Fan Lin, Yu-Shao Lai, Guo-Ping Chang-Chien</i>
		20	O215 Adaptive Image Grayscale Control for Highly Reflective Surface <i>Ya-Jing Wu, Bing-Lin Ho, Hao-Yuan Lin, Po-Er Hsu, Ju-Yi Lee, Mang Ou-Yang</i>

Poster B3 (Continued)

Date	Time	No.	1F - Foyer
25 th Oct. (Sun.)	08:00 10:00	21	SL205 An Intellegnt Prediction of the Satisfiction of Employer from International Student Learning Performerce by Using Long Short-Term Memory Method <i>Chung-Lin Huang, Chung-Chi Huang</i>
		22	J231 Barbed-Spring Locks of the Museum: the Integrated Application of Research, Exhibition, and Science Education <i>Jian-Liang Lin, Ching-Ching Pu, Hsin-Te Wang, Kuo-Hung Hsiao</i>
		23	J220 Research and Development of Equipment Required for PALTEM-HL Method <i>Kuen-Ming Shu, Jui-Yi Kang</i>



Poster B4

Date	Time	No.	1F - Foyer
25 th Oct. (Sun.)	10:15 12:30	1	A202 Corrosion of PV Frame in the Accelerated Acetic Salt Spray Test <i>Hsin-Hsin Hsieh, Wu Kai, Fu-Pen Cheng, Jing-Fa Wen</i>
		2	A203 Reliability of PV Modules Using Multilayer Encapsulant <i>Hsin-Hsin Hsieh, Syh-Hong Chen, Min-Tsung Kuan, Wen-Hsien Wang, Mang-Fan Lin</i>
		3	A207 Durability Test of Support in Floating Photovoltaic System <i>Chun-Kuo Liu, Zhong-Ri Kong, Ming-Je Kao, Teng-Chun Wu</i>
		4	A208 Durability Test of Float in Floating Photovoltaic System <i>Chun-Kuo Liu, Zhong-Ri Kong, Ming-Je Kao, Teng-Chun Wu</i>
		5	K202 Study of Surface Charge Transfer of Graphene/MoS₂ Heterojunction and the Applications on Rapid Response of NO₂ Gas Sensors <i>Yi-Cheng Lin, Chih-Chung Yang, Wen-Tse Hsiao, Shu-Ju Tsai, Sumayah Shakil Wani, Yu-Lun Chueh, H. Hoe Tan</i>
		6	K204 The Development of Overlay Measurement Method by Using Transmission Small Angle X-ray Scattering <i>Guo-Dung Chen, Bo-Ching He, Chun-Ting Liu, Wei-En Fu, Wen-Li Wu</i>
		7	K205 Long-Wavelength X-ray Reflectivity Technique for Ultra-Thin Film Thickness Measurements <i>Guo-Dung Chen, Bo-Ching He, Chun-Ting Liu, Wei En Fu</i>
		8	K207 Simulation of Transmission Small Angle X-ray Scattering Signal for Critical Dimension Measurements in the Next Generation of Semiconductor Process <i>Bo-Ching He, Chun-Ting Liu, Guo-Dung Chen, Ching-Hsuan Chang, Wei-En Fu</i>
		9	SP201 Movie-Induced Discrete Emotion Classification Using PPG Signals <i>Yu-Liang Hsu, Hsing-Cheng Chang, En-Ni Shih</i>
		10	SP202 Development and Application of a Human-Machine Interface Using Head Control and Numeric Tables for the Severely Disabled <i>Che-Ming Chang, Chern-Sheng Lin, Chung-Ting Chen, Wei-Cheng Chen, Yu-Liang Hsu</i>

Poster B4 (Continued)

Date	Time	No.	1F - Foyer
25 th Oct. (Sun.)	10:15 12:30	11	SP203 Flower-Like Nanostructure of rGO/Ag/ZnO and rGO/CuO/ZnO-Based Gas Sensors for Monitoring and Preventing NH₃ and H₂S Pollution <i>Che-Ming Chang, Cheng-Che Tsai, Chern-Sheng Lin, Yu-Liang Hsu, Ya-Hui Chen</i>
		12	SP204 Power Quality Improvement by Using Multi-Modes PV-APF in Low-Voltage Three-Phase Electrical Network <i>Yu-Jen Liu, Chao-Te Hsu, Yu-Tse Chen</i>
		13	SP205 Similarity Measurement of Different Fluorescent Lamp Arc Waveforms by Dynamic Time Warping Method <i>Yu-Jen Liu, Yuan-Hsin Cheng</i>
		14	C226 A Remote Fault Diagnosis System for Refrigeration Facilities <i>Yih-Her Yan, Sen-Tung Wu, Jia-Yi Lu</i>
		15	SS205 Evaluating the Synergistic Effect of Adding Multi-Walled Carbon Nanotubes and Graphene Nanoplatelets in the Matrix on the Static and Fatigue Flexural Strengths of Carbon Fiber Reinforced Epoxy Composites <i>Yi-Ming Jen, Wei-Lun Ni</i>
		16	SU202 An Analysis of Inertia and Friction Effect of Dynamic Test in the Split Hopkinson Pressure Bar Examined by Finite Element Method <i>Chi-Feng Lin, Wei-Chih Su</i>
		17	B203 A Novel and Robust Geometric Errors Measurement Method for a Swiveling Rotary Table by Using a Self Tracking Laser Interferometer <i>Yu-Ta Chen, Tsung-Han Hsieh, Po-Er Hsu, Jr-Rung Chen</i>
		18	J224 Rotray Encoder Calibration <i>Tsung-Han Hsieh, Jyun-Wei Huang, Kuan-Yin Huang, Yu-Ta Chen, Po-Er Hsu</i>
		19	J225 A New Angular Method for Measuring Position Error of Rotary Axis <i>Tsung-Han Hsieh, Kuan-Yin Huang, Jyun-Wei Huang, Yu-Ta Chen, Po-Er Hsu</i>
		20	O214 Uncertainty Evaluation of Sphere-Spacing Calibration Using Bilateral Measurement Method <i>Bing-Lin Ho, Ya-Jing Wu, Fan-Hsi Hsu, Po-Er Hsu, Mang Ou-Yang</i>



Poster B4 (Continued)

Date	Time	No.	1F - Foyer
25 th Oct. (Sun.)	10:15 12:30	21	SL206 Quality Classification in the Customized Market Orientation through the Application of Machine Learning <i>Tien-Szu Pan, Song-Yih Lin</i>
		22	J230 Design of a Mechanical Hub Transmission with a Manual Gear-Shifting Mechanism <i>Yi-Chang Wu, Feng-Ming Ou, Zulfan Yus Andi</i>
		23	O211 IOT Aquaponics System <i>Kuen-Ming Shu, Yu-Chen Lin</i>

Poster D1

Date	Time	No.	
24 th Oct. (Sat.)	08:00 10:00	1	G201 Reliability Investigation and Water Vapor Transmission Rate Properties for Light-Weight Photovoltaic Module Encapsulants <i>Yuyu Liu, Yutai Li, Anupam Mukherjee, Hsinlung Wu, Chofan Hsieh, Peichen Yu</i>
		2	G204 An Experimental Study on Concrete Crack Measurement Using a High-Resolution Camera <i>Dooyong Cho, Hoseong Jeong, Baekeun Jeong, Junho Gong</i>
		3	G205 A Study on Concrete Crack Measurement Using Image Processing Technique <i>Dooyong Cho, Junho Gong, Baekeun Jeong, Hoseong Jeong</i>
		4	ST202 Probabilistic Seismic Performance Assessment of RC Bridges Considering Multiple Limit States <i>Seong-Hoon Jeong, Nadia M. Mirzai, Hyo-Joon An, Soobong Shin</i>
		5	ST203 Risk Assessment of Bridge Transportation Networks Using Traffic Capacity <i>Joongmin Cho, Wonho Suh, Young-Joo Lee</i>
		6	ST204 Fatigue Life Estimation of Steel Railway Bridges Employing Walker Equation <i>Young-Joo Lee</i>
		7	ST205 Risk Assessment of Fatigue Failure Using Cohesive Elements and Response Surface Method <i>Young-Joo Lee, Wonho Suh</i>
		8	ST206 Graphical Analysis of Rollback Process in Optimistic Execution <i>Wonho Suh</i>
		9	SM201 GIS-Based Approach to Urban Underground Space Registration <i>Sang-Keun Bae, Jung-Ok Kim</i>
		10	SM202 Geographic Context Dependent Matching: Integrating Contextual Information with Geospatial Information for Smart Cities <i>Jung-Ok Kim, Sang-Keun Bae</i>



Poster D1 (Continued)

Date	Time	No.	
24 th Oct. (Sat.)	08:00 10:00	11	SM205 Reconstructing Texture Maps to Build Realistic Spatial Information Using Image Inpainting Techniques <i>Kyoung-Ho Bae, Sang-Keun Bae, Jung-Ok Kim</i>
		12	SM212 Road Feature Detection with High-Definition Map and High-Resolution UAV Images <i>Kuk Cho, Dooyong Cho</i>
		13	SM213 Mapping Land Cover Change of Kaski District, Nepal using Landsat and Google Earth Engine Cloud Computing <i>Tri Dev Acharya, Nimisha Wagle, He Huang, Dong-Ha Lee</i>
		14	SM214 Accuracy Evaluation between MBC Broadcast-RTK and NGII VRS Network-RTK Services in Korea <i>Hyeong-Joon Kim, Dong-Ha Lee</i>
		15	SM215 3D Reconstruction of a Reservoir Using Unmanned Aerial Vehicle, Ship-Borne Multi-Beam Echo Sounder, and GNSS Survey <i>Chang-Min Lee, Dong-Ha Lee</i>
		16	SP207 Application of an Extension Method with Empirical Mode Decomposition on Fault Diagnosis for PV Modules <i>Meng-Hui Wang, Shiue-Der Lu, Shao-En Wei, Cheng-Che Hsieh</i>
		17	SS204 Long Period Fiber Grating Temperature Sensor with Conductive Polymer Coating <i>Hsin-Yi Wen, Jian-Jie Weng, Jing-Lun Chen, Chia-Chin Chiang</i>
		18	SV231 Study on Numerical Analysis of Anchoring Mechanism of Prestressed Anchor Cable Based on ABAQUS <i>Wu-Yang Zhao</i>
		19	SV201 Research on the Development of Intelligent Construction New Technology and Talent Training <i>Zhong-Yuan Chen, Yu Pan</i>
		20	SV202 Reform and Exploration of Construction Organization Design Course Based on BIM Technology <i>Ting Han, Yan-Li Huang</i>

Poster D1 (Continued)

Date	Time	No.	
24 th Oct. (Sat.)	08:00 10:00	21	<p>SV223 Analysis of the Influencing Factors of University Students' Satisfaction of MOOC Courses Based on Intelligent Algorithm with Parameter Optimization and Decision Rules <i>Chou-Yuan Lee, Ling-Ming Ruan, Xiao-Shu Jiang, Zne-Jung Lee, Jian-Qiong Huang, Fu-Lan Ye, Zheng-Yuan Ning</i></p>
		22	<p>SV227 An Empirical Study of University Course Relevance Based on Improved FP-Growth Algorithm <i>Fu-Lan Ye, Li-Xian Chen</i></p>
		23	<p>SV228 Analysis of Growth Status of Ningdu Sanhuang Chicken Based on Bispectrum <i>Wen-Bing Wu, Yi Zhang, Min Zhou</i></p>
		24	<p>SV229 Research and Application of Coupled Components Filtering Method in Vibrating Signals <i>Wen-Bing Wu, Shuo-Cong Zhou, Zne-Jung Lee</i></p>
		25	<p>SV230 Research and Construction of University Data Governance Platform Based on Smart Campus Environment <i>Zhang-Bin Chen, Yang Liu</i></p>
		26	<p>J213 Buckling of Rectangular Composite Pipes <i>Atsusi Takano, Ryo Mizukami, Ryuta Kitamura</i></p>
		27	<p>SV224 Research on Dynamic Evaluation Model of Default Risk of Online Loan Borrowers Based on K-means and SVM <i>Jian-Qiong Huang, Wen-Long Guo, Chou-Yuan Lee</i></p>
		28	<p>ST207 Decision Making Framework for the Proactive Policy Conflict Management: the Case of New Airport Projects in South Korea <i>Ki-Han Song, Jeong-Woong Sohn, Sang-Kyu Kim</i></p>
		29	<p>ST208 Regional Economic Structure and Airport-Centric Development Strategy Formulation: the Case of South Korea <i>Ki-Han Song, Sungbong Chung</i></p>
		30	<p>SM211 IoT Sensor Base Location Data Collection and Analysis Platform to Improve the Road Pavement Quality <i>Junhyung Lee, Jaekang Lee, Young-Jin Kim</i></p>



Poster D2

Date	Time	No.	
24 th Oct. (Sat.)	10:15 12:30	1	B202 Omni-Directional Control of Electric Forklift Truck <i>Yu-Chi Wu, Yu-Jin Wang, Hsian-Shi Hsieh</i>
		2	B204 A Biomimetic Angular Velocity Measurement Method to Achieve Robustness to External Acoustic Attacks <i>Taeyup Kim, Jinwoo Sung, Seohyung Jang, Bobaro Chang, Dong-il “Dan” Cho</i>
		3	SQ201 Study on Underwater Navigation for Underwater Track Vehicle <i>Dae-Hyeong Ji, Hyeong-Sik Choi, Sang-Ki Jeong, Hyun-Joon Cho, Ji-Hyeong Lee, Wen-Hsiang Hsieh</i>
		4	SQ202 Disturbance Learning Adaptive Controller Design of Unmanned Surface Vehicle Using LSTM Technique of Recurrent Neural Network <i>Sang-Ki Jeong, Hyeong-Sik Choi, Dae-Hyeong Ji, Kang Hyoun, Jung-Min Seo, Changjoo Shin</i>
		5	SQ203 Robust Depth Control of a Hybrid Autonomous Underwater Vehicle with Propeller Torque’s Effect and Model Uncertainty <i>Ngoc-Huy Tran, Nguyen-Nhut-Thanh Pham, Hyeong-Sik Choi</i>
		6	SQ205 Development of a New Complex Marine Unmanned Platform and Field Test <i>Ji-Hyeong Lee, Hyeong-Sik Choi, Han-Sol Jin, Myung-Jun Kim, Ki-Beom Ju, Mai The Vu</i>
		7	SQ206 A Study on Hydrodynamic Forces Induced by Liquid Tank of LNG Carrier in Waves Based on Experiment and Recurrent Neural Network <i>Van Minh Nguyen, Thi Thanh Diep Nguyen, Hyeon-Kyu Yoon</i>
		8	SQ207 A Hazard Identification(HAZID) Study on Risk Assessment of Korean All-Weather Rescue Boat for a Solitary Person <i>Kyoung-Won Na, Jin-Hun Choo</i>
		9	SQ209 A Study on Development of Collision Avoidance Algorithm Based on Consciousness of Ship’s Operator <i>Eunkyoo Lee, Minjeong Park, Myoungki Lee, Youngsoo Park, Eunbi Park, In-Young Gong</i>
		10	SQ220 Recognition Method of Fraudulent Identity Vessel Based on Internal Movement Patterns <i>Bai-Chen Jiang, Wei Zhou, Jian Guan, Jia-Long Jin</i>

Poster D2 (Continued)

Date	Time	No.	
24 th Oct. (Sat.)	10:15 12:30	11	F201 Development and Application of an Internet of Things Door Lock Network Bridge for Classroom Access Control Management <i>Cheng-Hsiu Li, Chi-Yu Chen, Xuan-Rui Huang, Ting-Fu Tsai, Bo-Yang Liu</i>
		12	F209 Augmented Logistics Edutainment System <i>An-Ping Wang, Chun-Ting Lee, Tsang-Gang Lin, Chih-Teng Chen</i>
		13	SV226 Using Improved Neural Network for the Risk Assessment of Information Security <i>Zne-Jung Lee, Zhao-Yun Yang, Chou-Yuan Lee, Wen-Bing Wu</i>
		14	SV233 A Face Recognition Algorithm for People with Mask <i>Long-Tian Fu, Zne-Jung Lee, So-Tsung Chou, James Chen, Zi-Xiu Zou, Qi Zhang</i>
		15	SI202 Automatic Fish Segmentation and Recognition in Taiwan Fish Market Using Deep Learning Techniques <i>Ching-Han Chen, Lu-Hsuan Chen, Ching-Yi Chen</i>
		16	SV203 Analysis and Control of Quality Elements for Prefabricated Concrete Constructions <i>Han-Min Hu</i>
		17	SV204 Study on the Influencing Factors of Construction Enterprises Returning to Work and Production under the Epidemic Situation of COVID-19 <i>Yu-Kui Hu</i>
		18	SV207 Research on Training of Engineering Cost Professionals with BIM Technology in the Information Age <i>Chen-Chen Lai, Ai-Qing Zhang, Shen Lin</i>
		19	SV208 Research on Talent Training under the Development of Prefabricated Building Technology <i>Xiao-Ying Li, Zhong-Yuan Chen, Wen-Jing Chen, Qiu-Yi Li</i>
		20	SV211 Practice Reform on the Fusion of E-Commerce Data Traceability and Electronic Evidence Chain <i>Li-Zhi Lin, Fa-Jian Xu</i>



Poster D2 (Continued)

Date	Time	No.	
24 th Oct. (Sat.)	10:15 12:30	21	SM204 An Implementation on the Autonomous Bridge Inspection System by UAV Photogrammetry <i>Yong Huh, Jae-Kang Lee, Yoon-Soek Oh</i>
		22	G212 Experimental Study on Relationship between Turbidity and Concentration of Kaoline in Turbulent Flow <i>Dong-Hyun Kim, Hyung-Ju Yoo, Hyo-Jun Jung, Seung-Oh Lee</i>
		23	G211 Development of Water Level Prediction Algorithm Using Unstructured Data to Prevent Urban Flood Damage on Riverside Infrastructure <i>Seung-Yeon Lee, Hyung-Ju Yoo, Young-In Kim, Seung-Oh Lee</i>
		24	G213 Numerical Simulation of Effect of Submerged Weir on Transient Salinity Distribution in Tidal River <i>Hyung-Ju Yoo, Hyo-Jun Jung, Su-Jin Kim, Seung-Oh Lee</i>
		25	SS201 Nanocrystalline Cellulose Reinforced Polylactic Acid Composites <i>Shih-Chen Shi, Chia-Feng Hsieh</i>

Poster D3

Date	Time	No.	
25 th Oct. (Sun.)	08:00 10:00	1	C203 Resistive Bridge Sensor Analog Front-End with Fully Differential Current-Feedback Instrumentation Amplifier Using Floating HPF <i>Yongsu Kwon, Hyungseup Kim, Donggeun You, Hyunwoo Heo, Dong-il "Dan" Cho, Hyoungho Ko</i>
		2	C204 PLL-Based Resonator Driving IC with Automatic Parasitic Capacitance Cancellation and Automatic Gain Control <i>Hyunwoo Heo, Hyungseup Kim, Donggeun You, Yongsu Kwon, Yil-suk Yang, Hyoungho Ko</i>
		3	C205 Self-Sustained Oscillation Circuit for Nanoresonator with Digitally-Controlled Automatic Gain Control Loop <i>Hyunwoo Heo, Hyungseup Kim, Donggeun You, Yongsu Kwon, Yil-suk Yang, Hyoungho Ko</i>
		4	C206 A 156 dB CMRR 3-Opamp Resistive Bridge Sensor Analog Front-End IC with Offset Voltage Compensation Using R-2R DAC <i>Hyunwoo Heo, Hyungseup Kim, Donggeun You, Yongsu Kwon, Dong-il "Dan" Cho, Hyoungho Ko</i>
		5	C207 A Current-Reuse Current-Feedback Instrumentation Amplifier Utilizing Power Line Interference Reduction Technique for ECG Recording <i>Donggeun You, Hyunwoo Heo, Hyungseup Kim, Yongsu Kwon, Dong-il "Dan" Cho, Hyoungho Ko</i>
		6	C208 A 5.43 nV/$\sqrt{\text{Hz}}$ Chopper Operational Amplifier with Lateral PNP Input Stage Using BJT Current-Mirror Base-Current Cancellation <i>Hyungseup Kim, Yongsu Kwon, Donggeun You, Hyunwoo Heo, Choul-Young Kim, Hi-Deok Lee, Hyoungho Ko</i>
		7	C214 Development of Waterproof Bluetooth Earphones <i>Chia-Yu Tsao, Jwo-Shiun Sun, Guan-Yu Chen</i>
		8	C216 Conformal Design for Packaging AoP and IC Modules <i>Chia-Yu Tsao, Jwo-Shiun Sun, Guan-Yu Chen</i>
		9	C219 Software Optimization and Analysis of Lumped Component LC Low-Pass Filter <i>Chi-Ling Chen, Tse-Hsuan Wang, Jwo-Shiun Sun, Guan-Yu Chen</i>
		10	D201 Design of Heterodyne Interferometer Based on Virtual Electronic Phasemeter <i>Chia-Ming Jan, Chien-Sheng Liu, Chen-Yu Lin</i>



Poster D3 (Continued)

Date	Time	No.	
25 th Oct. (Sun.)	08:00 10:00	11	J212 Effects of Burner Operation and Furnace Geometry on the Lifetime for a Catalyst Tube of a Steam Methane Reformer: A Numerical Study <i>Chun-Lang Yeh</i>
		12	J216 The Improvement of Screen Glass Opening and Bundling Processes for the Manufacture of Medium-Sized Liquid Crystal Display (LCD) Screens <i>Chiwei Chen</i>
		13	J217 Numerical Study of the Effect of Steam Mole Fraction and Reactant Flow Rate on the Service Life of a Steam Reformer Catalyst Tube <i>Chun-Lang Yeh</i>
		14	I203 Risk Assessment and Analysis of Coupled Factors Based on Analytic Network Process and Load-Capacity Model <i>Zeyong Jiang, Tingdi Zhao</i>
		15	SL208 Evaluating Method of Photoelastic Analysis Performance of Residual Stress Defects of White Light Components under Non-Destructive Inspection <i>Han-Jui Chang, Zhong-Fa Mao, Zhi-Ming Su</i>
		16	SL209 Predicting for Injection Compound Mixed Screw with Virtual Measurement and RPE Method <i>Han-Jui Chang, Zhong-Fa Mao, Zhi-Ming Su</i>
		17	SL210 Recognizable Performance Based on Medical Liquid Silicone for Consistent Product Quality of Injection Process <i>Han-Jui Chang, Zhong-Fa Mao, Zhi-Ming Su</i>
		18	SN201 Study on Multi-Objective Collaborative Planning Method of Police UAV Cluster <i>Hai-Shi Liu, Qi-Yong Chen, Nan Pan, Shi Yin, Ya-Luo Yang</i>
		19	SN202 Study on Path Planning Algorithm of Indoor UAV Cluster for Overhead Container Storage <i>Qi-Yong Chen, Hai-Shi Liu, Yu-Qiang An, Nan Pan, Xiao-Jue Guo</i>
		20	SN203 Study on Intelligent Anti-Stealing of Electricity Early Warning Technology Based on Convolutional Neural Network <i>Nan Pan, Xin Shen, Min Cao, Junbing Qian</i>

Poster D4

Date	Time	No.	
25 th Oct. (Sun.)	10:15 12:30	1	E206 Automated DNA Extraction Monitoring System Based on MTConnect Technology <i>Sang-Ho Han, Ae-Ja Park, Ah-Reum Park, Mun-Ho Ryu</i>
		2	E208 Design of Lung Nodules Segmentation and Recognition Algorithm Based on Deep Learning <i>Hui Yu, Jin-Qiu Li, Li-Xin Zhang, Yu-Zhen Cao, Jing-Lai Sun, Xu-Yao Yu</i>
		3	L204 A Compact Weather Sensor Node for Predicting Road Surface Temperature <i>Taeyoon Eom, Youngsu Kwon, Hyoungho Ko</i>
		4	TB201 Enhanced Adsorption of Anion Contaminations in Water with Modified Biochars <i>Yi-Shan Jiang, Hsin-Liang Huang, Kun-Lin Zheng, Po-Han Pao, Bo-Wei Chen, Yong-Xin Huang</i>
		5	TB202 Ionic Liquids Containing Nanoparticles/Biochar for Solar Collector <i>Yi-Jin Lin, Pei-Yi Weng, Shi-Yun Lin, Yi-Shan Jiang, Chia Lin, Hsin-Liang Huang</i>
		6	WA203 A Study on the Integrated Management System for Monitoring the Health Status of Livestock Cattle Based on Bio and Integrated Electronic Sensors <i>Hyun-Ki Ryu, Sang-Min Kim, Yeongsu Yu</i>
		7	WB201 The Multisensory Stimulation in Lateral Gastrocnemius Muscle for Muscle Efficiency during Climbing Stairs in Real Time <i>Mattatika Pomrop, Seonghun Ko, Kiyoung Kwak, Dongwook Kim</i>
		8	WB202 The Effect of Multichannel Stimulation on Postural Perturbation during Sit to Stand Movement <i>Annor Peter, Huigyun Kim, Kiyoung Kwak, Dongwook Kim</i>
		9	WB203 Vibrotactile Sensory Stimulus to Assist Dynamic Transition from Level Walking to Stair Climb for the Elderly <i>Kiyoung Kwak, Kostic Emilija, Dongwook Kim</i>
		10	WB204 Effect of Multi-Sensory Stimuli Based on the Neuromuscular Response to Assist in Stair Climbing <i>Seunghun Ko, Mattatika Pomrop, Kiyoung Kwak, Dongwook Kim</i>



Poster D4 (Continued)

Date	Time	No.	
25 th Oct. (Sun.)	10:15 12:30	11	WB205 The Effect of Assisting the Posture Control of Multi-Channel Sensory Stimuli Applied to the Sit-to-Stand Movement of the Elderly <i>Huigyun Kim, Annor Peter, Kiyounng Kwak, Dongwook Kim</i>
		12	WD201 Novel Blood Clot Retriever for Acute Stroke <i>Pei-Ting Hsieh, Yu-Min Jian, Chun-Kai Yang, Emanuel Mosidol, Ching-Chang Huang, Mao-Shin Lin, Hao-Ming Hsiao</i>
		13	A201 Optimal Design of Composite Landing Gear for Unmanned Aerial Vehicle <i>Yen-Chu Liang, Pei-Chieh Chin, Yun-Ping Sun, Muh-Rong Wang</i>
		14	SV213 With Concise Remarks on the Intelligent Construction under the Epidemic Situation <i>Yun Lin</i>
		15	SV215 Research on the Intelligent Construction of Prefabricated Building and Personnel Training Based on BIM5D <i>Ya-Feng Wen</i>
		16	SV216 Research on the Curriculum Teaching Reform of Engineering Management Major in Applied Undergraduate Colleges under the Background of Big Data <i>Jinlu Xu</i>
		17	SV217 Research on Teaching Reform of Civil Engineering Based on the Trend of Intelligent Construction <i>Ling-Fang Zhong, Zhong-Yuan Chen, Han-Min Hu</i>
		18	SV218 Exploration on the Major of E-Commerce Construction in Application-Oriented Universities-Take the E-Commerce Major of Fuzhou University of International Studies and Trade as an Example <i>Renqiang Xie</i>
		19	SV219 Research on Practice Teaching of Engineering Cost Specialty Group Based on BIM <i>Yun Li</i>
		20	SV220 Application of Information Teaching in Safety First Aid and Nursing Courses <i>Yu Pan, Zhong-Yuan Chen</i>