Poster I

Date	Time	No.	7F - Edatorium Foyer
16th Nov. (Sat.)	09:00 | 09:50	1	**A9003** **Analysis of Tracking Tests on Polymeric Insulating Materials** *Kai-Hsiang Yen, Carl Wang*
		2	**A9004** **Hardware-in-the-Loop Simulations of Hole/Crack Identification in a Composite Plate** *Yen-Chu Liang, Yun-Ping Sun*
		3	**SH9002** **Mechanical and Electrochemical Properties of Zr Based Bulk Metallic Glasses with Alloy Addition** *Tao-Hsing Chen, Jian-Yu Wang*
		4	**B9001** **Structural Design and Gait research of a New Bionic Quadruped Robot** *Jiu-Peng Chen, Hong-Jun San, Xing Wu, Ming-Fang Chen, Xue-Jun Wang, Hai-Bo Wu*
		5	**B9003** **Design of Vector Field Path-Following for A Small Unmanned Ground Vehicle with Kalman Filter Estimation** *Yun-Ping Sun, Yen-Chu Liang*
		6	**C9004** **Resistive Bridge Sensor Readout IC with Fully Differential Current Feedback Instrumentation Amplifier** *Hyungseup Kim, Yongsu Kwon, Jaesung Kim, Kwonsang Han, Donggeun You, Hyunwoo Heo, Dong-il "Dan" Cho, Hyoungho Ko*
		7	**C9005** **Low Noise Chopper Stabilized Multi-Path Operational Amplifier with Nested Miller Compensation for High Precision Sensors** *Jaesung Kim, Hyungseup Kim, Kwonsang Han, Donggeun You, Hyunwoo Heo, Yongsu Kwon, Dong-il "Dan" Cho, Hyoungho Ko*
		8	**C9006** **Low Noise Multimodal Reconfigurable Sensor Readout Circuit for Voltage/Current/Resistive/Capacitive Microsensors** *Donggeun You, Hyungseup Kim, Jaesung Kim, Kwonsang Han, Hyunwoo Heo, Yongsu Kwon Gyungtae Kim, Woo Suk Sul, Jong Won Lee, Boung Ju Lee, Hyoungho Ko*
		9	**C9007** **A 4-Channel Low-Noise Readout IC for Sap Flow Measurement in 0.18 μm CMOS Technology** *Kwonsang Han, Hyungseup Kim, Jaesung Kim, Donggeun You, Hyunwoo Heo, Yongsu Kwon, Junghoon Lee, Hyoungho Ko*
		10	**C9008** **Secure IC with Countermeasure to Unpowered Physical Attack Using On-Chip Photodiode and Charge Pump** *Hyunwoo Heo, Hyungseup Kim, Jaesung Kim, Kwonsang Han, Donggeun Yoo, Yongsu Kwon, Dong Kyue Kim, Byong-Deok Choi, Ji-Hoon Kim, Hyoungho Ko*
		11	**C9009** **Implantable ECG Acquisition Analog Front-End for Leadless Pacemaker** *Yongsu Kwon, Hyungseup Kim, Jaesung Kim, Kwonsang Han, Donggeun You, Hyunwoo Heo, Hyoungho Ko*

Poster I (Continued)

Date	Time	No.	7F - Edatorium Foyer
16th Nov. (Sat.)	09:00 | 09:50	12	**C9014** **Design of Home Precision Power Factor Adjuster** *Van-Tsai Liu, Sung-Kai Wang, Hong-Yi Lu*
		13	**C9015** **A Stretchable, Patch-Type, Wireless 6-Axis IMU for Real-Time Gait and Posture Analysis** *Jae-Keun Lee, Kangil Kim, Seung-Ju Han, Do-Hyung Kim, Sangmin Lee*
		14	**C9016** **A Novel Top-Down Fabrication Process for Vertically-Aligned Silicon Nanowire Array** *Kangil Kim, Jae-Keun Lee, Seung-Ju Han, Do-Hyung Kim, Sangmin Lee*
		15	**E9003** **Virtual Keyboard Recognition with E-Textile Sensors** *Eun-Ji Ahn, Sang-Ho Han, Mun-Ho Ryu, Je-Nam Kim*
		16	**E9004** **The Environment Feedback of Bio-Mimic Collagen II-g-Hyaluronic Acid Copolymers on Chondrocyte** *Kuan-Wei Lee, Lain-Chyr Hwang, Shwu-Jen Chang*
		17	**F9011** **A Machine Learning Based Indoor Positioning System Design Using BLE** *Yu-Bin Fang, Yu-Ching Lin, Wei-Chih Su, Chi-Feng Lin*
		18	**F9013** **Deep Learning - Based Parking Occupancy Method for Smart Streetlight Control System** *Lun-Chi Chen, Wen-Yi Peng, Ruey-Kai Sheu, Jyh-Horng Wu, Chien-Hao Tseng*
		19	**SY9020** **Construction of Forest Spatial Information for Efficient Forest Investigation** *Jong-Sin Lee, Dooyong Cho*
		20	**G9005** **Determination of Optimal Evacuation Routes in Underground Space Considering Flood Risk** *Hee-Soo Chung, Eun-Taek Shin, Tae-Soo Eum, Chang-Geun Song*
		21	**H9004** **An Intelligent Optimization System for the FMM Photolithography Process** *Wen-Chin Chen, Kuan-Ming Lin, Tai-Hao Chen, Yun-Ru Chang, An-Xuan Ngo*
		22	**I9001** **Adaptive Levitation Control of Maglev Vehicles Subject to Uncertain Time-Delay and Disturbances: Design and Hardware Experimentation** *You-Gang Sun, Jun-Qi Xu, Guo-Bin Lin, Fei Ni*

Poster II

Date	Time	No.	7F - Edatorium Foyer
16th Nov. (Sat.)	10:00 | 10:50	1	**I9002** **Generalized Disturbance Observer-Based Robust Control for Suspension Active Magnetic Bearing System** *Van-Nam Giap, Shyh-Chour Huang*
		2	**J9030** **The Kinematic Design of Mold Clamping Mechanism with Minimal Maximum Acceleration** *Long-Chang Hsieh, Tzu-Hsia Chen*
		3	**J9003** **Fault Diagnose of Bearing Signals Based on Dynamic Mode Decomposition, Multiscale Permutation Entropy and Recursive Analysis** *Zhang Dang, Qin Fan, Yong Lv, Yourong Li*
		4	**J9011** **Application of Micro Force Sensor in Flow Meters** *Sheau-Shi Pan, Ta-Chang Yu, Sheng-Jui Chen*
		5	**SQ9001** **Colorimetric Characterization of Color Image Sensors Based on U-Net Modeling** *Po-Tong Wang*
		6	**STC9005** **The Classification Algorithm Evaluation for Human Body Activity Recognition by Machine Learning-Based Method** *Chih-Ta Yen, Jia-De Lin*
		7	**D9001** **The Multimedia Experiment of Random AWG/Optical Switch-based Wavelength Hopping over Secure Wireless WDM Network** *Yao-Tang Chang*
		8	**D9002** **Phase Map Improvement using Multi-Exposure Images** *Bing-Lin Ho, Jing-Feng Weng, Po-Er Hsu, Hao-Yuan Lin, Ju-Yi Lee*
		9	**J9024** **Design of Non-Contact Measuring Device for Rail Irrecularity** *Jing-Feng Weng, Jr-Rung Chen, Wei-Chen Chang, Chin-Lung Tsai, Po-Er Hsu, Wen-Jen Chen*
		10	**WB9002** **Co-Activation and Activity of Muscles of Lower-Limb Depending on Mechanical Stimulation during Stair Climbing** *Dongwook Kim, Kiyoung Kwak, Huigyun Kim, Seunghun Ko*
		11	**SE9001** **Adaptive-Uniform-Experimental-Design-Based Fractional-Order Particle Swarm Optimizer with Non-Linear Time-Varying Evolution** *Po-Yuan Yang, Fu-I Chou, Jinn-Tsong Tsai, Jyh-Horng Chou*

Poster II (Continued)

Date	Time	No.	7F - Edatorium Foyer
16th Nov. (Sat.)	10:00 | 10:50	12	**SE9002** **Classification of Human Electrocardiogram Using Multi-Layer Convolutional Neural Network plus Parameter Optimization** *Yao-Mei Chen, Jinn-Tsong Tsai, Wen-Hsien Ho, Yen-Ming J. Chen*
		13	**SE9003** **Estimating Temperature Map in Body-Mattress Contact from Few Thermostats to Monitor Circulation and Prevent Decubitus** *Wen-Hsien Ho, Yenming J. Chen, Jinn-Tsong Tsai*
		14	**SE9004** **Epidemic Prediction of Dengue Fever Based On Vector Compartment Model and Adaptive Markov Chain Monte Carlo Method** *Chien-Hung Lee, Yao-Mei Chen, Yenming J. Chen, Wen-Hsien Ho, Jinn-Tsong Tsai*
		15	**SE9007** **Gagné-Based Learning Hierarchy Approach to Developing Mathematics Skills Assessment Systems for Diagnosing Student Learning Problems** *Wei-Ling Tang, Ching-Ying Huang, Jinn-Tsong Tsai*
		16	**SE9009** **Influence Analysis of ECG P-Wave Morphology Parameters for Atrial Fibrillation Based on Data Mining Technology** *Yen-Ming J. Chen, Jinn-Tsong Tsai, Yiu-Jen Chang, Yuan-Chih Ho, Wen-Hsien Ho*
		17	**SE9010** **Diversity Optimization by Two-Stage Collaborative Filtering Mechanism in Recommender System** *Liang Zhang, Wen-Hsien Ho, Quanshen Wei, Lei Zhang*
		18	**SE9011** **Secure Access and Transmission in Modular Cloud Computing System** *I-Te Chen, Han-Chun Liao, Jer-Min Tsai, Wen-Hsien Ho*
		19	**SE9012** **Applying Artificial Immune System to Perform the Screening Task in an Intrusion Detection System** *Fu-I Chou, Wen-Hsien Ho, Jinn-Tsong Tsai, Chia-Wen Chang, Yenming J. Chen*
		20	**SF9003** **Data Communication and Interlligence in Traffic Simulation Environments: Simulation Time and Performance Experiments** *Young-Joo Lee, Hyun Woong Cho, Jung In Kim, Joonho Ko, Hyunmyung Kim, Wonho Suh*
		21	**SF9004** **Intelligence in Traffic Simulation Model: Modeling Congested Newtork** *Joonho Ko, Hyun Woong Cho, Jung In Kim, Hyunmyung Kim, Young-Joo Lee, Wonho Suh*
		22	**SF9005** **Development of a structural monitoring system for cable bridges by using seismic accelerometers** *Seong-Hoon Jeong, Won-Seok Jang, Jin-Won Nam, Hyo-Hyun An, Dae-Jin Kim*

Poster III

Date	Time	No.	7F - Edatorium Foyer
16th Nov. (Sat.)	11:00 | 11:50	1	**SU9001** **Nanoresonator IC with Motional Resistance Sensing for Continuous Blood Glucose Monitoring** *Hyunwoo Heo, Kwonsang Han, Hyungseup Kim, Jaesung Kim, Donggeun Yoo, Yongsu Kwon, Hyunjoong Lee, Hyoungho Ko*
		2	**SY9006** **Reconstruction of Indoor Geometry from Architectural Floor Plans** *Jung-Ok Kim, Jae-Kang Lee, Yoon-Seuk Oh*
		3	**SY9008** **DMB Based Precise Control for Compaction in Road Construction Site** *Jae-Kang Lee, Chang-Ho Choi, Jin-Young Kim*
		4	**SY9009** **A Study on the Measurement of Soil Degree of Compaction Using Smart Shoes** *Jin-Young Kim, Jae-Kang Lee, Chang-Ho Choi*
		5	**SY9011** **Development of Productivity Analysis Method of Sewage Treatment Plant Using Malmquist Productivity Index (MPI)** *Sang-Hyuk Park, Ja-Yong Koo*
		6	**SY9012** **Performance Comparison of BEIDOU and GLONASS GNSS Systems in High-Rise Building Areas** *Seung-Jun Lee, Tae-Yun Kim, Hong-Sik Yun*
		7	**SY9013** **Relationship Analysis of Geothermal Power Plant and Pohang Earthquake Based on Geodetic Techniques** *Seung-Jun Lee, Tasliman Michael*
		8	**SY9014** **Accuracy Evaluation of Geoidal Heights in National Control Points of South Korea Using High Degree Geopotential Model** *Kwang-Bae Kim, Hong-Sik Yun, Ha-Jung Choi*
		9	**SY9018** **Accuracy Evaluation of UAV Image for Mapping Based on Low-Cost RTK** *Sang-Soo Lee, Tri Dev Acharya, Chang-Min Lee, Seok-Hun Hwang, Dong-Ha Lee*
		10	**SY9021** **A Study on Agricultural Drought Monitoring Using Drone and Satellite Imagery** *Kyoung-Ho Bae, Geon-Woo Ham, Jung-Min Lee, Han-Sol Kim*
		11	**WA9001** **The Association between the Use of Efavirenz and the Occurrence of Depressive Disorders among HIV-Treated Patients: an Application of Bayesian Cox Regression** *Yi-Horng Lai*

Poster III (Continued)

Date	Time	No.	7F - Edatorium Foyer
16th Nov. (Sat.)	11:00 | 11:50	12	**WA9002** **Research on Simple Method for Detecting Diabetic Retinopathy Using Deep Learning** *Ping-Nan Chen, Ke-Feng Lin*
		13	**WC9002** **Deep Convolutional Neural Networks for Human Movement Detection Using Wireless Signals** *Chien-Cheng Lee, Xiu-Chi Huang*
		14	**WC9003** **Role of CXCR4 in Branching Morphogenesis in Developing Epithelial Organ** *Junchul Kim, Sang-Woo Lee, Kyungpyo Park*
		15	**WD9003** **A Health Care Device with a Modified Test Strip** *Yen-Pei Lu, Jo-Wen Huang, Jen-Tsung Yang, I-Neng Lee, Rui-Cian Weng, Shih-Jie Chou, Chia-Wei Chang*
		16	**STB9001** **Deep Learning Model-Based Human Emotion Recognition by 3D Image Sensor Information of Hand Gesture Actions** *Ing-Jr Ding, Meng-Chuan Hsieh*
		17	**WF9001** **Design and Parameter Optimization of Variable Frequency Controlled LCC Resonant Converter in Current Continuous Mode** *Gang Rao, Wei Wang, Dongheng Yang*
		18	**TA9002** **Construction and Numerical Realization of Magnetization Model for a Magnetostrictive Actuator Based On Smith Free Energy** *Zhen Yu, Chen-yang Zhang, Jing-xian Yu, Zhang Dang, Min Zhou*
		19	**TB9001** **Importance of Pore Structure and Surface Chemistry in Carbon Dioxide Adsorption on Electrospun Carbon Nanofibers** *Yu-Chun Chiang, Shang-Tse Lee, Yu-Chun Chen*
		20	**TC9003** **Evaluation of Condition of Concrete Structures Using Ultrasonic Pulse Velocity Method** *Seong-Uk Hong, Sang-Ki Yoon, Jong-Hyun Kim, Chang-Jong Lee, Seung-Hun Kim, Yong-Taeg Lee*
		21	**TC9004** **Size Estimation of Concrete Structures Using Impact Echo Method** *Seong-Uk Hong, Sang-Ki Yoon, Yong-Taeg Lee, Seung-Hun Kim*
		22	**SJ9001** **Device and Method for Recognizing and Automatically Connecting Thunderbolt/USB Interface of Host Computer** *So-Ki Jung*

Poster IV

Date	Time	No.	7F - Edatorium Foyer
17th Nov. (Sun.)	09:00 | 09:50	1	**C9001** **Maximum Power Point Tracking Based On Fuzzy Controller for Small Wind Turbine without Sensor** *Cheng-Shion Shieh*
		2	**C9002** **Digital Tracking Control of the Boost Converter: Prediction-Based Digital Redesign Approach** *Cheng-Shion Shieh*
		3	**J9026** **Diagnosis of the Hollow Ball Screw Preload and Pretension Classification Using Support Vector Machine** *Yi-Cheng Huang, Chi-Hsuan Kao, Chih-Hsiang Chang*
		4	**J9012** **Backstepping Sliding Mode Control for Magnetic Suspension System of Maglev Train with Parameter Perturbations and External Disturbance** *Ding-Gang Gao, Shi-Hui Luo, Wen-Yue Zhang, Wen Ji*
		5	**J9013** **Flow Characteristics and Heat Transfer Performances of the Multi-Layer Winding Hose System: Theory and Experimentation** *Haiyan Qiang, Wanli Li, Junqi Xu, Yanran Wang, Guanyuan Li*
		6	**J9014** **Effect of Results Due to Pivot Change during Torque Calibration** *Chiu-Hsien Chen, Sheau-Shi Pan*
		7	**J9015** **Verification of Structural Integrity and Cooling Performance of DRCS Cabinet in Power Plant** *Seung-Hoon Song, Jong-Rae Cho, Jin-Seong Park*
		8	**J9016** **Reduction of Structure-Borne Noise in Hydraulic Power Unit with Elastic Mounting by Evaluation of Structural Acceleration Level** *Sung-Yong Park, Jong-Rae Cho, Sang-Hyun Park*
		9	**J9019** **Research on the Coupling Mechanism between Ballastless Bed and Loose Track Structure of High-Speed Railway** *Xue-Jun Wang, Jiang-Hua Pu*
		10	**J9020** **Test Study on the Accumulated Settlement Characteristics of Ballasted Bed under High Speed Cyclic Loading** *Xue-Jun Wang, Jiang-Hua Pu, Hong-Jun San, Ming-Fang Chen, Hai-Bo Wu*
		11	**J9022** **A New Geometric Errors Measurement of a Rotary Table by LaserTRACER** *Yu-Ta Chen, Tsung-Han Hsieh, Jr-Rung Chen, Po-Er Hsu, Bing-Lin Ho*

Poster IV (Continued)

Date	Time	No.	7F - Edatorium Foyer
17th Nov. (Sun.)	09:00 | 09:50	12	**J9023** **Errors Model of a Rotary Axis by Using Multiple Optical Readers** *Tsung-Han Hsieh, Jr-Rung Chen, Yu-Ta Chen, Po-Er Hsu*
		13	**J9025** **Effects of Surface Roughness on Transient Squeeze EHL Motion of Circular Contacts with Micropolar Fluids** *Li-Ming Chu, Yuh-Ping Chang, Hsiang-Chen Hsu*
		14	**L9001** **Frailty Health Status with Quality of Life among Community-Dwelling People** *Shu-Fang Chang*
		15	**L9003** **Different Plastic-Bag Type Photobioreactor for Biomass Production of Chlorella Species** *Yu-Pei Chen, Yao-Hsin Huang, Hsiang-Chin Huang*
		16	**L9004** **Characterization and Overexpression of Esterases-Encoding Lip900 and Lip3954 through Metagenomic Sequencing of Paddy Soil** *Yu-Pei Chen, Pei-Chi Lee, Hong-Tan Wu, Guey-Horng Wang, Chai-Fang Tsai, Chiu-Chung Young*
		17	**M9002** **Using Fuzzy Set Qualitative Comparative Analysis for Evaluating the Effectiveness of Relationship Marketing and Innovation in 3D Printing Medical Market** *Cheng-Feng Cheng, Ta-Cheng Chen*
		18	**N9002** **Artificial Intelligence Algorithms for Open-Shop Scheduling Problems with Multiple Machines and Multiple Sequential Operations** *Yi-Chih Hsieh, Kuei-Cheng Su*
		19	**N9003** **Operator Based and User Based Rebalancing Strategy for Bike-Sharing Systems** *Peng-Sheng You*
		20	**O9003** **Solving Forest Harvesting Problem with Artificial Intelligence Approaches** *Yi-Chih Hsieh, Hao-Chun Chuang*
		21	**G9001** **Investigation of Strain of Steel Reinforcement of Modular Flexural Member at Discontinuity Interface** *Jongho Park, Hae-Kyun Lee, Jinwoong Choi, Sungnam Hong, Sun-Kyu Park*
		22	**WE9006** **Fast Descriptor Generation Study for a Real-Time Retinal Fundus Image Matching** *Seung-Bong Lee, Ga-Young Kim, Jae-Hoon Jeong, Sung-Min Kim*

Poster V

Date	Time	No.	7F - Edatorium Foyer
17th Nov. (Sun.)	10:00 | 10:50	1	**SF9006** **Derivation of Seismic Fragility Curves for RC Bridges in Korea Considering Variations of the Representative Analytical Model** *Seong-Hoon Jeong, Hyo-Joon An, Soobong Shin*
		2	
		3	**SH9001** **Investigation of High Strain Rate Mechanical Behavior of Aluminum Alloy with Scandium** *Chi-Feng Lin, Wei-Chi Su*
		4	**SI9001** **Effect of Nanoparticle Additive on the Load Capacity of Hydroxypropyl Methylcellulose Composite** *Shih-Chen Shi, Xiao-Ning Tsai*
		5	**SI9002** **Tribology Behavior of Atmospheric Pressure Plasma Modified Zirconia in Collagen/HPMC Hybrid Lubricant** *Shih-Chen Shi, Ting-Wei Chang*
		6	**SI9003** **Effect of Salt-Spray Aging on Compressive Performance of Solid Cylindrical Rubber Fender** *Yung-Chuan Chiou, Chia-Chin Wu, Chao-Wei Mao, Ming-Yang Shen*
		7	**SI9007** **Synergistic Effect of Adding Carbon Nanotubes and Graphene Nanoplatelets in the Matrix on the Fatigue Strength of Carbon Fiber Reinforced Epoxy Composites** *Yi-Ming Jen, Yu-Ching Huang*
		8	**J9031** **Dynamic Analysis of a Helical Geared Rotor System with Oil-Film Bearing** *Wen-Cheng Lu, Ying-Chung Chen, Siu-Tong Choi*
		9	**SL9006** **The Design and Development of an Automatic Transmission Solenoid Tester for Wheel Vehicles** *Ming-Sen Hu*
		10	**SM9001** **Investigation of Auxiliary Force for Intelligent Wearable Device by Fuzzy-Neural Network Control based on Bayesian Backpropagation Algorithm** *Bor-Jiunn Wen, Chia-Hung Kao*
		11	**SM9002** **A Study on an Accurate Underwater Location of Hybrid Underwater Gliders Using Machine Learning** *Sang-Ki Jeong, Hyeung-Sik Choi, Dae-Hyung Ji, Jin-il Kang*

Poster V (Continued)

Date	Time	No.	7F - Edatorium Foyer
17th Nov. (Sun.)	10:00 | 10:50	12	**SN9001** **A Novel Environmental Monitoring Strategy for Industrial Safety and Disaster Prevention Management Applications** *Zong-Yi Yang, Chih-Wei Chou, Wei-Cheng Lin, Wei-Chun Chen, Chi-Min Shu*
		13	**SN9002** **IoT Based Intelligent Farming System Using NodeMCU and Blynk App** *Yung-Chien Lin, Yung-Chin Lin*
		14	**SN9003** **Monitoring and Control of Smart Home Using NodeMCU and Blynk App** *Yung-Chien Lin, Yung-Chin Lin*
		15	**SN9004** **Development of a Robot Platform Based on myRIO Controller** *Bo-Jun Yang, Kuo-Hsien Hsia, Sheng-Chieh Liu, Kuo-Lan Su*
		16	**SN9005** **Develop a Dynamic Encryption Method IoT Module and a General-Purpose SCADA Application System** *Jr. Hung Guo, Kuo-Lan Su*
		17	**SN9006** **Development of the Teaching Material for NI roboRIO Based Mobile Robot** *Jr. Hung Guo, Tzu-Yu Chung, Ze-Yu Huang, Kuo-Lan Su*
		18	**SN9007** **Development of the Teaching Materials for ROS Based Mobile Robot** *Bo-Jun Yang, Kuo-Hsien Hsia, Chang-Sheng Siao, Kuo-Lan Su*
		19	**SO9001** **Fingerprint Quality Assessment Based on Texture and Geometric Features** *Ching-Han Chen, Chen-Shuo An, Ching-Yi Chen*
		20	**SQ9002** **Self-Organizing-Map Based Object Segmentation Hardware Accelerator for Real-Time Stereo Vision** *Ching-Han Chen, Yen-Hsiang Huang, Ching-Yi Chen*
		21	**SQ9003** **Manipulator System Design for Drawing Random Objects through Point Cloud Posture Estimation** *Ching-Chang Wong, Hsuan-Ming Feng, Yu-Cheng Lai, Hsiang-Yun Chen, Si-Yao Syu*
		22	**A9007** **Hydroxyapatite as a Sacrificial Material of Core Catcher in Severe Nuclear Accident** *Sung-Wook Moon, Il-GoK Hong, Byeong-Woo Lee*

Poster VI

Date	Time	No.	7F - Edatorium Foyer
17th Nov. (Sun.)	11:00 | 11:50	1	**O9006** **Study on Flow Field Characteristics of Hybrid Synthetic Jet Flow Device** *Chia-Wei Hsu, Uzu-Kuei Hsu, Chih-Huang Chiang, Cheng-Chiang Hsu*
		2	**O9017** **Developing Programable Robot for K9 STEAM Education** *Cheng-Tiao Hsieh*
		3	**O9021** **The Development of Thin Film Thickness Measurement System by Combining with X-ray Reflectivity and X-ray Fluorescence** *Guo-Dung Chen, Chun-Ting Liu, Bo-Ching He, Wei-En Fu, Wen-Li Wu*
		4	**C9017** **Overview of Photovaltaic Generation System with On-Site Datas Analysis in Taiwan** *Ming-Wang Chen*
		5	**N9008** **Artificial Intelligence in Nylon Fabric Dyeing Recipe Prediction Algorithm Design** *Hsiao-Wu Lai, Chih-An Chen, Min-Yan Dong, Jing-Wen Tang, Ping-Yang Chen, Kuang-Hung Chen, Shun-Chieh Lin*
		6	**SB9005** **Study on the Path Planning for Underwater Vehicle Considering Ocean Currents Using Rapidly-Exploring Random Trees Algorithm** *Mai The Vu, Hyeung-Sik Choi, Seo-Kang Kim, Hyun Joon Cho*
		7	**SB9006** **Dynamics Modeling and Control Design of Ray-Type Hybrid Underwater Glider with a Dual-Buoyancy Engine** *Ngoc-Duc Nguyen, Hyeung-Sik Choi, Sung-Wook Lee, Sang-Ki Jeong, Dae-Hyeong Ji*
		8	**SB9007** **An Enhanced Sliding Mode Control Method for Wave Compensation System of Ship-Mounted Cranes with Roll Motions and Uncertain Parameters** *You-Gang Sun, Zhi-Qiang Xu, Jun-Qi Xu, Guo-Bin Lin*
		9	**SC9004** **Performance Improvement of SAONOS Device as UV TD Nonvolatile Sensor with Al2O3/HTO Bi-Layer Blocking Oxide** *Wen-Ching Hsieh, Fuh-Cheng Jong, Wei-Ting Zeng*
		10	
		11	

Poster VI (Continued)

Date	Time	No.	7F - Edatorium Foyer
17th Nov. (Sun.)	11:00 ǀ 11:50	12	
		13	**SS9002** **Artificial Neural Network Base on Grey Relational Analysis Estimate Displacement of Bridge-Type Amplifier** *Quang Phuoc Tran, Ngoc-Thai Huynh, Shyh-Chour Huang*
		14	**ST9001** **Numerical Simulation of Surface Properties in Laser Remelting** *You-Ren Lu, Shyang-Jye Chang*
		15	**ST9003** **Development of Magnetic Gear Differentials** *Yi-Chang Wu, Hao-Pin Wu, Chien-Chin Huang*
		16	**ST9004** **Design, Fabrication and Testing of a Modular Two-Input Power Device for Wheelchairs** *Yi-Chang Wu, Tsung-Yi Lin, Hung-Wei Chen*
		17	**ST9005** **Design of Five-Speed Transmissions with Magnetic Gear Mechanisms** *Yi-Chang Wu, Mi-Ching Tsai, Guei-Hua Huang*
		18	**STA9001** **Prediction of Atrial Fibrillation Using Machine Learning Models** *Cai Wu, Maxwell Hwang, Yiu-Jen Chang, Tsung-Han Ho, Yen-Ming J. Chen, Kao-Shing Hwang, Wen-Hsien Ho, Jian Huang*
		19	**STA9002** **Mitosis Detection for Breast Cancer Histology Images by an Attention Model** *Maxwell Hwang, Cai Wu, Jian Huang, Wei-Cheng Jaing, Kefeng Ding, Kao-Shing Hwang*
		20	**SI9005** **The Effect of Polyolefin Elastomer Toughening for Glass Fiber Reinforced Polyamide Composite** *Chin-Hsing Chen, Chia-Hui Lin, Chin-Lung Chiang, Ming-Yuan Shen*
		21	
		22	