

Online Session A1

Date	Time	<p>WD. MEDICAL DEVICES, BIOMEDICAL MATERIALS, MEASUREMENT AND INSTRUMENTATION ; F. Computer & Information Engineering ; G. Green Technology & Civil Engineering ; H. Industry 4.0 & Automation Engineering ; L. Environmental, Food, Health Science & Technology ; SJ. Recent Advances in Surveying and Geomatics Engineering</p> <p><i>Session Chair: Prof. Hariyanto Gunawan</i></p>
29 th Oct. (Sat.)	08:00~08:15	<p>WD222 EEG Measurement and Analysis in the Sitting Hyperbaric Oxygen Chamber <i>Mao-Sung Chen, Shih-Chng Chen</i></p>
	08:15~08:30	<p>G202 Flexural Behaviour of Built-Up Cold-Formed Steel Channel Section Strengthened with Oriented Strand Board <i>Mohd Syahrul Hisyam Mohd Sani, Haslin Idayu Amaruddin, Wan Mohd Nazri Wan Abdul Rahman, Fadhluhartini Muftah</i></p>
	08:30~08:45	<p>G203 Analysis of Burial Depth of Gas Pipelines Crossing Rivers Due to Variation of River Bed <i>Tae-Soo Eum, Won Choi, Dong-Yeon Ko, Chang-Geun Song</i></p>
	08:45~09:00	<p>G204 Evaluation of Applicability of 2D River Flow Analysis Model according to River Cross-Section Topographic Data <i>Eun-Taek Shin, Tae-Soo Eum, Se-Hyuck An, Chang-Geun Song</i></p>
	09:00~09:15	<p>H202 Geometric Accuracy Control of Electrode Discharge Machining Process <i>Hariyanto Gunawan, Jun-Kai Peng, Shih-Ming Wang, Ren-Qu Tu</i></p>
	09:15~09:30	<p>L207 A Fuzzy System with Virtual Reality for Testing Mild Cognitive Impairment <i>Cheng-Li Liu, Shiaw-Tsyur Uang</i></p>
	09:30~09:45	<p>F208 Improving Test Efficiency for REST API Sequence Testing <i>Chien-Hung Liu, Shu-Ling Chen, Guang-Ying Wu</i></p>
	09:45~10:00	<p>SJ212 Auto-Calibration of Camera with High Definition Map <i>Kuk Cho, Dooyong Cho</i></p>

Online Session A2

Date	Time	<p>M. Innovation Management ; SC. Dynamics and Autonomous Technology in Naval Architecture ; SG. System Development, Control, and Optimization ; SK. Intelligent Manufacturing and Forming Technology ; SL. Applied Technology Education</p> <p><i>Session Chair: Prof. Dyi-Cheng Chen ; Prof. Hyeung-Sik Choi</i></p>
29 th Oct. (Sat.)	10:15~10:30	<p>M204 Exploring the Relationship of Moderating Variables Affecting the Consumers' Usage of Over-the-Top Media Services- Using Netflix as an Example <i>Wan-Yu Chu, Yu-Lung Wu</i></p>
	10:30~10:45	<p>M205 Online Investment Behavior and Online Financial Product Selection- A Case Study of the Investment of Elementary School Teachers <i>Tsai-Wei Han, Yu-Lung Wu</i></p>
	10:45~11:00	<p>SG213 A Novel Version of Firely Algorithm for Global Optimization <i>Ji-Pyng Chiou, Shi-Nian Chen</i></p>
	11:00~11:15	<p>SG214 A Comparative Study between FA and BOA by Numerical Functions Optimization <i>Ji-Pyng Chiou, Chun-Cheng Yeh</i></p>
	11:15~11:30	<p>SK201 The Relationship among Taiwan's Machine Tool Industry Manufacturing Strategies, Competitive Advantages, and Enterprise Performance <i>Dyi-Cheng Chen, Tzu-Wen Chen</i></p>
	11:30~11:45	<p>SL202 The Effects of Education and Training on the Work Ability and Retention Intention-Taichung and Changhua Machinery Industry Employees as an Example <i>Dyi-Cheng Chen, Jia-Yue Guo</i></p>
	11:45~12:00	<p>SL203 The Researches of Flipped Teaching Approach on Students' Skills Learning in the Core Curriculums of Industry 4.0 <i>Dyi-Cheng Chen, Jui-Chuan Hou, Tzu-Wen Chen</i></p>
	12:00~12:15	<p>SC201 A Study of un Underwater Thruster Fault Diagnosis of the USV Based on PCA-Entropy <i>Ki-Beom Choo, Hyunjoon Cho, Jung-Hyeun Park, Dong-Wook Jung, Hyeung-Sik Choi</i></p>
12:15~12:30	<p>SC202 Analysis on a New Twin Hybrid Autonomous Underwater Vehicle <i>Jiafeng Huang, Hyeung-Sik Choi</i></p>	

Online Session A3

Date	Time	<p>YC. Related Technologies and Applications ; A. Materials Engineering ; C. Electrical & Electronic Engineering ; SG. System Development, Control, and Optimization ; SP. Mechanism, Machine and Electric Machine Design</p> <p><i>Session Chair: Prof. Jih-Mirn Jehng ; Prof. Yenming J. Chen</i></p>
30 th Oct. (Sun.)	08:00~08:15	<p>YC103 The Catalytic Properties of Ethylene Reactions over Silver and Reduced Vanadium Oxide Catalyst on MEMS Chips with Micro Hot Plate <i>Guang-Je Guo, Jih-Mirn Jehng</i></p>
	08:15~08:30	<p>A206 Analytical Model of Pre-Molded Internal Thread on Composite Tubes <i>Ryuta Kitamura, Atsushi Takano</i></p>
	08:30~08:45	<p>A207 Enhancement Quality Factor by Ge+4 Substitution at A-Site of Zn₂SnO₄ Microwave Ceramics <i>Yih-Chien Chen, Tse-Lung Lin</i></p>
	08:45~09:00	<p>C201 Multi-Sensor Wearable 3D-Printed Medical Device for Early Detection of Hemodialysis Access Dysfunction <i>Wei-Ling Chen, Tsung-Lung Yang, Chung-Dann Kan</i></p>
	09:00~09:15	<p>SG212 System Design and Launch of Hybrid Rocket with a Star-Fractal Swirl Fuel Grain toward an Altitude of 15 km <i>Atsushi Takano, Keita Yoshino, Yuki Fukushima, Ryuta Kitamura, Yuki Funami, Kenichi Takahashi, Akiyo Takahashi, Yoshihiko Kunihiro, Makoto Miyake, Takuma Masai, Shizuo Uemura</i></p>
	09:15~09:30	<p>SP202 On the Design of Hybrid Magnetic Gears for Continuously Variable Transmissions <i>Yi-Chang Wu, Saian Nur Fajri, Tsung-Yi Lin</i></p>
	09:30~09:45	<p>SP203 Design of a Retarder System Assisted with a Gear Mechanism for Escape Slings <i>Yi-Chang Wu, Zulfan Yus Andi, Chia-Chun Chu, Chien-Sheng Huang</i></p>
	09:45~10:00	<p>SP201 Magnetic Flux Leakage Analysis of a Novel Three-Phase Induction Motor with Wound Rotor <i>Wan-Tsun Tseng, Kai-Hong Cheng</i></p>

Online Session A4

Date	Time	<p>CF. Computer & Information Engineering ; WA. BIOCOMPUTING AND BIOINFORMATICS ; C. Electrical & Electronic Engineering ; SB. Approaches on Swarm Intelligence and Deep Learning for Industrial Applications ; SD. Recent Innovations and Applications in Imaging Technology and Fingerprint Processing ; SI. Applications in Machine Learning and Smart Automation ; SJ. Recent Advances in Surveying and Geomatics Engineering</p> <p><i>Session Chair: Prof. Po-Tong Wang ; Prof. Nan Pan</i></p>
30th Oct. (Sun.)	10:15~10:30	<p>CF222 Development of the Abnormal Tension Pattern Recognition Module for Twist Yarn Based on Deep Learning Edge Computing <i>Yan-Long Huang, Chuan-Pin Lu</i></p>
	10:30~10:45	<p>WA224 Atrial Fibrillation Classification Using MsCWT and Convolutional Neural Networks <i>Ling-Chun Sun, Chia-Chiang Lee, Hung-Yen Ke, Chih-Yuan Wei, Ke-Feng Lin, Shih-Sung Lin, Hsin Hsiu, Ping-Nan Chen</i></p>
	10:45~11:00	<p>SB220 Deep Neural Network for Determination of Ground Shaking's Seismic Intensity Level <i>Eiji Nouchi, Rito Yamakawa, Buntara S. Gan</i></p>
	11:00~11:15	<p>SB221 An Improve Yolov3-Tiny for Pedestrian Detection <i>Chun-Che Kao, Jia-Shing Sheu</i></p>
	11:15~11:30	<p>SD202 Real-Time Hand Movement Trajectory Track Using Deep Learning <i>Chih-Fang Shen, Po-Tong Wang, Jia-Shing Sheu</i></p>
	11:30~11:45	<p>SJ214 Development of GNSS Quality Control Algorithm for Layer Management in Smart Earthworks <i>Jae-Kang Lee, Yong Huh, Jung-Ok Kim</i></p>
	11:45~12:00	<p>C216 The Dispense Inspection of Flip-Chip Packaging Using Automated Optical Inspection <i>Jung-Sheng Chiang, Chin-Lung Tsai, Yu-Cheng Chuang, Nai-Hsiang Sun</i></p>
	12:00~12:15	<p>SI213 Point-to-Point Displacement Prediction and Feedback Control for an XXY Table Based on Long Short-Term Memory <i>Ming-Yu Ma, Yi-Cheng Huang, Yu-Tso Wu</i></p>
	12:15~12:30	<p>SJ211 Shallow Water Classification for Airborne LiDAR Bathymetry Using Improved Waveform Decomposition and SVM Techniques <i>Hyejin Kim, Jaehoon Jung, Jaebin Lee</i></p>
	12:30~12:45	<p>M206 Innovative Management and Discussion of Self-Paying Medical Care <i>Yan-Lin Chou, Zhi-Xiong Zhang, Yu-Lung Wu</i></p>