October 28
Day 1

Session A1｜Onsite Oral｜Lyon A

Date	Time	H. Industry 4.0 & Automation Engineering ; SM. Recent Advances in Infrastructure Technologies ; SH. System Development, Control, and Optimization ; TA. Civil & Structure Engineering *Session Chair*: *Prof. Andīna Sprince*
28th October (Sat.)	08:00~08:15	
	08:15~08:30	
	08:30~08:45	**SM2314** **An Experimental Study on Flexural Behavior of Concrete Beams Retrofitted with Modularized Steel Plates** *Yoon Sung Kim, Young Hak Lee, Min Sook Kim*
	08:45~09:00	**TA2311** **Seismic Performance of Reinforced Concrete Column Retrofitted with Replaceable Steel Links Using Sliding Slots** *Kyoung Min Ro, Min Sook Kim, Young Hak Lee*
	09:00~09:15	**SH2313** **A FlexSim Model for Reverse Logistics Management of Information and Communication Technology Scrap Products** *Tienhua Wu, Chen-Chi Yang, Shu-Wen Yeh, Yi-An Xu, Hong-Chen Pan, Su-Ting Cai*
	09:15~09:30	**SH2314** **Does Electronic Word-of-Mouth Influence Military Enlistment Choice Decision? A Mediation Analysis Using the Theory of Planned Behavior** *Tienhua Wu, Jia-Hui Lin, Kuen-Ting Tsai, Cheng-Hsien Tsai, Chin-Yu Li, Yu-Cheng Lin, Sheng-Jie Chen*
	09:30~09:45	**SH2317** **A Study on the Intention Use of Electronic Task Assignment Management System: A Technology Acceptance Model Perspective** *Fu-Hsiang Wen, Sheng-Chih Huang, Fang-Chen Chang, Guan-Jing Ho, Yu-Shin Tsai, Tzu-Chin Lin, I-Ying Ho*
	09:45~10:00	**H2313** **Kinematic Study of a Tensegrity-Based Vibratory Platform Driven by Cam Mechanisms** *Wen-Hsiang Hsieh, Hukamasidhi Yoel*

Session A2 │ Onsite Oral │ Lyon A

Date	Time	A. Materials Engineering ; J. Mechanical Engineering ; M. Innovation Management *Session Chair*: *Prof. Ning Fang*
28th October (Sat.)	10:15~10:30	**A2310** **Potential of Waste Alkalis as Activators for Geopolymer Production** *Martin Mildner, Jan Fořt*
	10:30~10:45	**A2311** **Potential of Freshwater Sediments for Alkali-Activation** *Ayodele Afolayan, Martin Mildner, Jan Fořt*
	10:45~11:00	**A2320** **Self-Sensing Potential of Metashale Geopolymer Mortar with Carbon Fibers/Graphite Powder Admixtures** *Petr Hotěk, Fiala Lukáš*
	11:00~11:15	**A2315** **Review on Synthesis and Extraction of Mesoporous Silica from Geothermal Brine** *Limbo Ruth, Vannie Joy Resabal, Ralf Abarca, Wei-Ting Lin*
	11:15~11:30	**J2310** **A Machine Learning Technique for Predictive Modeling and Analysis in Metal Machining** *Ning Fang, P. Srinivasa Pai*
	11:30~11:45	**M2310** **Assessment of AI Service Quality Perception Gaps** *Lin-Kung Chen, Pi-Tzong Jan*
	11:45~12:00	**M2314** **On Urban-Rural Gap in Using Mobil Payment – An Empirical Study** *Jrjung Lyu, Chun-Hung Hsieh*

Poster D2｜Onsite Poster｜Hallway

Date	Time	No.	
28th October (Sat.)	**10:15 ｜ 12:00**	1	**SL2312** **Using YOLO to Improve the Identification of Crops** *Song-Yih Lin, Chung-Chi Huang, Kuan-Chang Huang*
		2	**J2317** **Research on Ultrasonic Metal Welding Machine and Welding Copper Wire** *Kuen-Ming Shu, Che-Wei Chang, Hung-Wen Tseng, Chung-Yi Yeh*
		3	**J2319** **Heat Transfer Enhancement Effect of Corrugation Design for Plate Heat Exchanger** *Jian-Sheng Huang, Kiat Boon Then*
		4	**J2320** **Thermophoretic Effect on Particle Transport Phenomena When Variable Viscosity Fluid Flow through a Porous Medium** *Jian-Sheng Huang, Xiang-Wei Wang*
		5	**J2318** **Response and Fracture of EMT Carbon Steel Round-Hole Tubes with Different Hole Directions and Different Hole Diameters under Cyclic Bending** *Wen-Fung Pan, Yu-An Chen*
		6	**J2323** **Design and Analysis of Magnetic Brake Mechanisms for Escape Slings** *Yi-Chang Wu, Si-Ying Gao, Saian Nur Fajri*
		7	**J2324** **Modeling and Analysis of a Tensegrity-Based Vibratory Platform Using IronCAD** *Wen-Hsiang Hsieh, Chen-Ji Pan, Yen-Chun Hsieh*
		8	**O2314** **Battery Replaceable PSAT Biologger for Remote Monitoring Ocean Environment** *Sungmin Koo, Juhyun Kim, Huicheol Shin, Hyoun Kang, Yoon-Chil Kim, Seungjae Baek*
		9	**N2313** **Underwater Receiver Design Combining Deep Learning with Primary Transmission Signal Acquisition Capabilities** *Chih-Ta Yen, Un-Hung Chen*
		10	**SB2319** **Leveraging 3D Printing Capability for Geopolymer Composites Based on Fly Ash with Cotton Fibers Addition** *Barbara Kozub, Szymon Gądek, Bożena Tyliszczak, Kinga Korniejenko*

Date	Time	No.	
28th October (Sat.)	**10:15 ︱ 12:00**	**1**	**SK2310** **A Domain Generalized Face Anti-Spoofing System Using Domain Adversarial Learning** *Ching-Yi Chen, Sin-Ye Jhong, Chih-Hsien Hsia*
		2	**SK2311** **Domain Adaptation for Roasted Coffee Bean Quality Inspection** *Cheng-Lung Chang, Shou-Chuan Lai, Ching-Yi Chen*
		3	**SK2312** **Novel Deep-Reinforcement Learning Algorithm in the Simulations of Multi-Agent Path Finding** *Shih-An Li, Tsung-Han Chang, Yun-Chien Chen, Hsuan-Ming Feng*
		4	**J2315** **Development of an Affordable Wave-Powered Propulsion System for Small Boats** *Sung-Hyub Ko, Jong-Wu Hyeon, Dae-Hyeong Ji, Jung-Han Lee, Seom-Kyu Jung, Seung-Woo Byun, Joon-Young Kim*
		5	**J2316** **Slow Sound Mode Predition and Band Structure Calculation in 1-D Phononic Crystal Nanobeam Using Artificial Neural Network** *Fu-Li Hsiao, Yen-Tung Yang, Wen-Kai Lin, Ying-Pin Tsai*
		6	**D2310** **Diffractive Efficiency Prediction of Surface Relief Grating Waveguide Using Artificial Neural Network** *Fu-Li Hsiao, Hsuan-Ming Chang, Wen-Kai Lin, Ying-Pin Tsai*
		7	**B2310** **Enhancements to ROS-Based Robot Target Following** *Yi-Wei Chen, Jr-Hung Guo*
		8	**B2311** **Hybrid Path Planning for ROS-Based Robot Using CNN** *Yi-Wei Chen, Jr-Hung Guo*
		9	**B2312** **Changes in Marine Characteristics Associated with Typhoon Soulik Observed Using Wave and Underwater Gliders** *Jong-Wu Hyeon, Sung-Hyub Ko, Dae-Hyeong Ji, Jung-Han Lee*
		10	**C2311** **Integration of Feature Based NFTS System and Special Scratch Recognition System for Wafer Map Classification** *Wen-Yang Xie, Jwu-E Chen, Hsing-Chung Liang, Yu-Guang Chen*

Session C3｜Online Oral｜Official Website

Date	Time	A. Materials Engineering ; M. Innovation Management ; SN. Applied Technology and Education *Session Chair*: *Prof. Tao-Hisng Chen*
28th October (Sat.)	13:30~13:45	**A2312** **Evaluation of Hot Forging Billet Size through Compressive Testing Using Zener-Hollomon and Cingara Variables** *Naiyanut Jantepa, Surasak Suranuntchai*
	13:45~14:00	**M2313** **Development of Blended Laboratory Based Instructional Package for Embedded System Applications** *Surasak Inchan, Somsak Akatimagool*
	14:00~14:15	**SN2313** **Research on Power Loss of a Novel Transverse Three-Phase Induction Motor** *Wan-Tsun Tseng, Yu-Cheng Fan*

Paper Award A4 │ Onsite / Online Oral │ Triomphe Hall

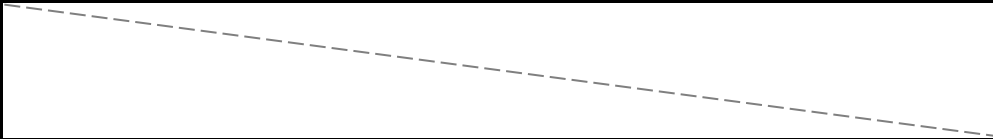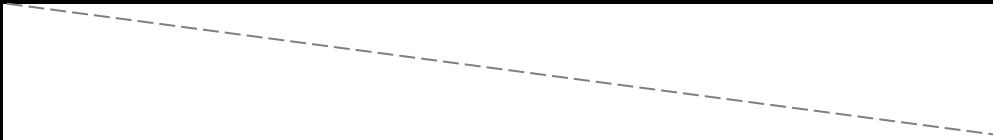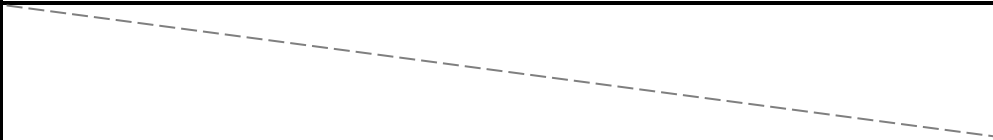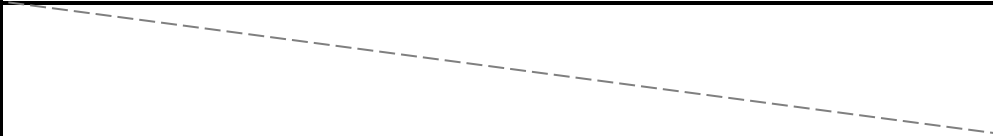| Date	Time	
28th October (Sat.)	14:15~14:30	**SN2310** **Unity 3D-Based VR Drone Simulation Training System** *Guan-Jun Chen, Huai-Feng Huang, Jun-Wei Chen, Yao-Chung Chang, Wei-Che Chien*
	14:30~14:45	**SA2310** **Multi-Objective Optimization Using Novel Grey Wolf Optimizer** *Ji-Pyng Chiou, Yi-Chen Liu*
	14:45~15:00	**SA2311** **The Player Detection and Analysis System Based on YOLOv5 in Basketball Game** *Sheng-Gru Lin, Jia-Shing Sheu, Po-Tong Wang*
	15:00~15:15	**SA2312** **Real-Time Hand Detection and Tracking Using Both Deep Learning and CamShift** *Tse-Kai Chen, Po-Tong Wang, Chin-Tan Lee, Jia-Shing Sheu*
	15:15~15:30	**SA2313** **The Real-Time Multiple-Person Action Recognition System by Deep Learning** *Tse-Hsiang Chen, Po-Tong Wang, Jia-Shing Sheu*

Poster D4｜Onsite Poster｜Hallway

Date	Time	No.	
28th October (Sat.)	**14:15 | 15:30**	1	**SH2315** **A Relationship Between Risk Attitudes and Decision Bias in Entrepreneurship** *Tienhua Wu, Guan-Ying Lu*
		2	**SH2318** **A Pilot Study on Developing an Information Security Awareness Assessment System** *Fu-Hsiang Wen, Wei-Chih Hsu*
		3	**SH2320** **Analysis of the Correlation between Learning Emotion and Learning Motivation of Cadets-Teaching Research Application of Text Mining** *Li-Feng Lin, Sheng-Chih Huang, Jai-Hui Lin*
		4	**SH2312** **The study of Power Generation Driven by Supersonic Shock Waves** *Ming-Sen Hu*
		5	**SH2316** **Study on Fault Diagnosis Technology for Efficient Swarm Control Operation of Unmanned Surface Ships** *Sang-Ki Jeong, Dae-Hyeong Ji, Jih-Yeong Lee, Hae-Young Park, Sae-Hun Baeg, Yoon-Chil Kim, Jungmin Seo*
		6	**SH2321** **A Study on the Fault-Coping Algorithm for Improving Leader-Follower Swarm Control Algorithm of USV's** *Jihyeong Lee*
		7	**SM2312** **A Study on Relationship Evolution between Infrastructure and Advanced Technology Industry** *Ki-Han Song, Ha-Jeong Lee, Solsaem Choi, Wonho Suh*
		8	**SM2313** **A Novel Demand Forecasting Methodology for Verti-Ports: A Study Utilizing Text Mining Techniques** *Ki-Han Song, Solsaem Choi, Wonho Suh*
		9	**SM2316** **Prediction of Anchorage Performance of Headed Bars Using Artificial Neural Networks** *Jang-Woon Baek, Hyeon-Jong Hwang*
		10	**SM2318** **Nonlinear Finite Element Analysis of the UHPC-Infilled Top Chords Integrated Deck Plate System** *Hong-Jun Son, Young-Ho Kim, Dae-Jin Kim*

Date	Time	No.	
28th October (Sat.)	**14:15 | 15:30**	11	**WC2310** **Correlation between Global Cognition and Motor and Sensory Functions in Community-Dwelling Older Individuals** *Emilija Kostic, Kiyoung Kwak, Sinyoung Lee, Dongwook Kim*
		12	**WC2311** **Develop Fever-Detection Model Using Machine Learning Algorithm Among ICU Patients** *Ke-Feng Lin, Chih-Yuan Wei, Ling-Chun Sun, Ping-Nan Chen*
		13	**WA2310** **Determining Gait and Sensory Parameters for Detecting Amnestic Cognitive Impairment** *Sinyoung Lee, Kiyoung Kwak, Emilija Kostic, Dongwook Kim*
		14	**WB2311** **Examining the Variations of Level Walking Depending on MCI Subtype in the Community-Dwelling Older Individuals** *Kiyoung Kwak, Emilija Kostic, Sinyoung Lee, Dongwook Kim*
		15	**SG2315** **Using Conditional GANs for Polyps Segmentation in Colonoscopy Images** *Ta-Cheng Chen, Ta-Wei Chiang, Sheng-Chuan Wang, Nuttawan Phanwong*
		16	**SB2320** **Characteristics of Materials for the Production of Geopolymers on the Example of Slate Tailings Silesia and Marcel and Fly Ashes** *Bozena Tyliszczak, Barbara Kozub, Beata Figiela, Anna Drabczyk, Sonia Kudłacik-Kramarczyk, Kinga Korniejenko*

Poster E4 │ Online Poster │ Official Website

Date	Time	No.	
28th October (Sat.)	**14:30 │ 15:30**	1	**C2312** **Recognizing Grid and Sparse Defect Patterns on Wafer Maps** *Hui-Sheng Lin, Jwu-E Chen, Hsing-Chung Liang, Yu-Guang Chen*
		2	**C2313** **Wafer Defect Pattern Identification Using Cluster Filtering Strategy and CNN Computation** *Wei-Cheng Huang, Jwu-E Chen, Hsing-Chung Liang, Yu-Guang Chen*
		3	**C2314** **Extracting Feature Parameters for Analysis of Defect Patterns on Wafer Bin Maps** *Zong-Han He, Jwu-E Chen, Hsing-Chung Liang, Yu-Guang Chen*
		4	**M2311** **Dynamic Allocation Strategy for the Car Rental Industry with Multiple Rental Channels** *Peng-Sheng You*
		5	**SH2310** **Application of Nanofluid/Ultrasonic Atomization MQL System to Research on Surface Roughness of High-Speed Milling 7075-T6 Aluminum Alloy** *Wei-Tai Huang, Jinn-Tsong Tsai, Wen-Hsien Ho*
		6	**SH2319** **Study on Energy Optimization Controllers to Increase the Operating Period of Underwater Gliders** *Dae-Hyeong Ji, Sang-Ki Jeong, Jung-Han Lee, Sung-Hyub Ko, Jong-Wu Hyeon, Ji-Hyeong Lee*
		7	**SL2310** **Five-Axis Finish Milling Machining for an Inconel 718 Alloy Monolithic Blisk** *Ming-Hsu Tsai, Teng-Hui Chen, Jeng-Nan Lee, Tai-Lin Hsu, Dong-Ke Huang*
		8	**K2310** **Characterization of Junction-Less TFET with Drain Schottky Barrier Contact** *Jyi-Tsong Lin, Wei-Han Lee, Kuo-Tung Huang, Ruei-Kai Yang*
		9	**SN2314** **Application of ChatGPT-Driven Inquiry-Based Learning in Intelligent Vehicle Competition Training: A Human-AI Collaboration Approach** *Hung-Cheng Chen, Qiang Chen*
		10	**SB2313** **Influence of the Particle Size of Fly Ash on the Properties of Geopolymer** *Wei-Ting Lin, Liga Radina, Marek Hebda, Andina Sprince, Gábor Mucsi, Kae-Long Lin*

Date	Time	No.	
28th October (Sat.)	**14:30 ︱ 15:30**	**11**	**A2322** **Mechanical Properties and Microstructural Evolution of CoCrFeNiV Based High-Entropy Alloys** *Wen-Nan Wang, Wei-Ming Huang, Tao-Hsing Chen*
		12	
		13	
		14	
		15	

October 29
Day 2

Session A5｜Onsite Oral｜Lyon A

Date	Time	SB. 3D Printing Technology for Foamed Geopolymer *Session Chair*: *Prof. Dariusz Mierzwiński ; Prof. Wei-Ting Lin*
29th October (Sun.)	08:00~08:15	**SB2310** **3D Printing Properties of Environmentally Friendly Cementless Materials Possess Low Thermal Conductivity** *Wei-Ting Lin, Kinga Korniejenko, Dariusz Mierzwiński, Marek Hebda, Andīna Sprince*
	08:15~08:30	**SB2312** **Research on the Fresh Properties and Printability of 3D Printing Concrete with Different Sand Binder Ratios** *Chia-Yun Huang, Jia-Chen Xue, Ciao-Yin Liang, Tzu-Hsuan Chen, Wei-Chien Wang*
	08:30~08:45	**SB2311** **Analysis of Raw Materials for 3D Printing Construction Application** *Dariusz Mierzwiński, Szymon Gądek, Celina Ziejewska, Marek Hebda*
	08:45~09:00	**SB2314** **Energetic Optimization of Mechanical Activation of Aluminosilicate Wastes for Geopolymer Applications** *Gábor Mucsi*
	09:00~09:15	**SB2317** **Material Characteristics of Cement- and Mechanically Activated CDW-Based Composite Mixtures** *Roland Szabó, Péter Tamás Bárány, Noémi Németh, Mária Ambrus, Gábor Mucsi*
	09:15~09:30	**SB2318** **Methods of Preparing Foamed Materials for 3D Printing in Construction** *Magdalena Rudziewicz, Mateusz Góra, Marek Hebda, Marcin Maroszek*
	09:30~09:45	**SB2323** **Effect of Saltwater Curing on the Compressive Strength of Rubber Coarse Aggregate Concrete** *Chung-Hao Wu, Yuan-Shun Yang*
	09:45~10:00	**SB2322** **Self-Supporting Geopolymer-Zeolite Composite for Industrial Wastewater Treatment** *Ralf Ruffel M. Abarca, Abdul Rashid M. Dibaratun, Ibrahem Maverick S. Macud, Aubrey Mae Ericca M. Pabingwit, Chindelyn J. Valiente, Rodel D. Guerrero, Alexander O. Mosqueda*

Session B5 │ Onsite Oral │ Lyon B

Date	Time	F. Computer & Information Engineering ; G. Green Technology & Civil Engineering ; M. Innovation Management ; O. Other Engineering and Technology related topics ; SM. Recent Advances in Infrastructure Technologies ; WA. BIOCOMPUTING AND BIOINFORMATICS *Session Chair: Prof. Yoshimichi Watanabe ; Prof. Wonho Suh*
29th October (Sun.)	08:00~08:15	**G2312** **Transmission Line Fault Classification Using Conformer Convolution-Augmented Transformer Model** *Meng-Yun Lee, Yu-Shan Huang, Chia-Jui Chang, Jia-Yu Yang, Chih-Wen Liu, Tzu-Chiao Lin, Yen-Bor Lin*
	08:15~08:30	**SM2310** **Impact Analysis on Vehicle Emission from Aumonomous Vehicles in Urban Areas Using Microscopic Traffic Simulation** *Chae-Rin Lee, Sung-Ha Kim, Ki-Han Song, Wonho Suh*
	08:30~08:45	**O2312** **Evaluating Pilot Performance under Spatial Disorientation in Low Visibility Conditions Using Deep Learning** *Sehoon Yim, Youngjin Cho*
	08:45~09:00	**WA2311** **Melanoma Skin Cancer Classification Based on Smoothing and Black & White Points Optimizes ROI Detection with Deep Transfer Learning** *Chun-Wei Tseng, Hong-Xi Chen, Ling-Chun Sun, Ping-Nan Chen*
	09:00~09:15	**F2311** **Quality Model and Quality Characteristics Evaluation Suitable for Software 2.0** *Yoshimichi Watanabe, Yunarso Anang, Masakazu Takahashi*
	09:15~09:30	**F2313** **A Feasibility Study on Noncontact Estimation of the Flow Volume of Nasal Breathing by Using Far Infrared Imaging** *Dai Hanawa, Sho Akahori, Kimio Oguchi*
	09:30~09:45	**O2313** **Underwater Docking Assessment Framework for Autonomous Underwater Vehicle Based on Geometric Analysis of Reachability** *Seung-Jae Chon, Joon-Young Kim, Jong-Hwa Kim, Hyeung-Sik Choi*
	09:45~10:00	**M2312** **Global Post-Pandemic Impact on Aviation Industry - Case of South Asia** *Malith Nirmal, Do-Hyun Kim, Hyoseok Chang*

Session A6｜Onsite Oral｜Lyon A

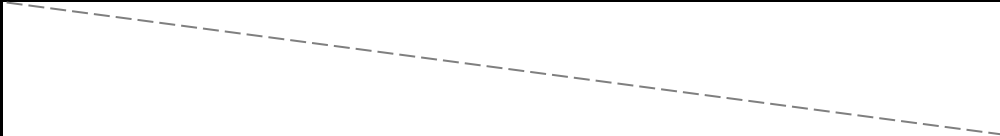| Date	Time	B. Mechatronic and Robotics Engineering ; C. Electrical & Electronic Engineering ; H. Industry 4.0 & Automation Engineering ; N. Intelligent Computing ; SM. Recent Advances in Infrastructure Technologies *Session Chair*: *Prof. Hyeung-Sik Choi ; Prof. Ikuo Yamamoto*
29th October (Sun.)	10:15~10:30	**B2315** **Clustering Based Fault Diagnosis and Tolerance of Underwater Thrusters in ROV** *Jung-Hyeun Park, Hyunjoon Cho, Dong-Wook Jung, Jiafeng Huang, Sang-Min Gil, Yun Chi Ung, Hyeung-Sik Choi*
	10:30~10:45	**B2316** **Development of Soft Grasping Hand Device for Inspection Cup** *Ikuo Yamamoto*
	10:45~11:00	**B2313** **Fault Diagnosis of USV's Underwater Thruster Using Wavelet Transform Denoising and CNN-Based Neural Network Classifier** *Hyunjoon Cho, Chi-Ung Yun, Tae-Hyo Cha, Hyeung-Sik Choi*
	11:00~11:15	**C2310** **Remote Continuous Monitoring of Tree Physiological Activity Using Electrical Impedance Measurements** *Jeonghoon Lim, Jinkee Kim, Jong-Pal Kim*
	11:15~11:30	**H2311** **Intelligent Optimization to Enhance Energy Efficiency in CNC 5-Axis Milling for Sustainable Manufacturing** *Indrawan Nugrahanto, Hariyanto Gunawan, Eric Chen*
	11:30~11:45	**N2312** **Applying Text Processing and LDA to the Value Proposition of NFTs** *Mei-Yu Wu, Pin-Jhu Lai, Chih-Kun Ke*
	11:45~12:00	**SM2317** **Seismic Performance of the Reinforced Concrete Boundary Beam-Wall System under Cyclic Lateral Loading** *Chan-Hyun Park, Sang-Hyun Ji, Dae-Jin Kim*

Session B6｜Onsite Oral｜Lyon B

Date	Time	J. Mechanical Engineering ; SL. Applications in Machine Learning and Smart Automation ; SN. Applied Technology and Education *Session Chair*: *Prof. Dyi-Cheng Chen*
29th October (Sun.)	10:15~10:30	**SL2311** **Development of Intelligent Impurity Detection System for Magnesium Alloy Ingots Using Machine Learning Methods** *Chung-Chi Huang, Song-Yih Lin, Kuan-Chang Huang, Chung-Lin Huang, Rong-Hsu Lin*
	10:30~10:45	**SL2313** **A Study on Effects of AI Consultation System for Elderly in Micro-Travel** *Hsiao-Man Liu, Chung-Chi Huang, Chung-Lin Huang, Song-Yih Lin*
	10:45~11:00	**SL2314** **An Intelligent Prediction of the Possiblity of Working in Taiwan from the Satisfication of Internship of International Students** *Chung-Lin Huang, Chung-Chi Huang*
	11:00~11:15	**J2312** **The Concept Creation of Auxiliary Standing Chairs with Tilting and Lying Functions** *Long-Chang Hsieh, Tzu-Hsia Chen, Po-Cheng Lai*
	11:15~11:30	**J2322** **Study on Thunniform Swimming Hydrodynamics and Wake Structures** *Phan Huy Nam Anh, Hyeung-Sik Choi, Jiafeng Huang, Ruochen Zhang, Sang-Ki Jeong*
	11:30~11:45	**SN2311** **Optimization Parameters through Additive Manufacturing: Taking Mixed Shapes as an Example** *Dyi-Cheng Chen, Yu-Ting Chen*
	11:45~12:00	**SN2312** **A Study on the Effects of Using Thematic Textbooks on Learning Effects in STEM Educational Contexts** *Dyi-Cheng Chen, Bo-Yan Lai*

Poster D6｜Onsite Poster｜Hallway

Date	Time	No.	
29th October (Sun.)	10:15 | 12:00	1	**SB2315** **Curing Conditions of Geopolymer Concrete: A Review** *Liga Radina, Celina Ziejewska, Leonids Pakrastins, Rihards Gailitis, Wei-Ting Lin, Roland Szabó, Andina Sprince*
		2	**SB2316** **Investigating the Influence of Liquid/Solid Ratio and NaOH Molar Concentration on Mechanical Properties of Geopolymer-Portland Cement Composites** *Valdis Jaugietis, Gita Sakale, Leonids Pakrastins, An Cheng, Szymon Gadek, Radina Liga, Andina Sprince*
		3	**SB2321** **Increased PVA and Steel Fiber Reinforcement Influence on Fly Ash Based Geopolymer Composites Long-Term Properties in Compression and Three-Point Bending** *Rihards Gailitis, Liga Radina, Leonids Pakrastins, Wei-Ting Lin, Andina Sprince*
		4	**A2318** **Application of Electrochemical Reaction Zone Flow Channel Design in kW-Class Vanadium Redox Flow Battery** *Yi-Hsin Hu, Chien-Hong Lin, Ning-Yih Hsu, Hwa-Jou Wei*
		5	**A2319** **Investigation of Cycling Performance in a Solid-State Fluoride Ion Battery Based on Copper Fluoride Electrodes** *Chien-Hung Chen, Ching-Tsung Yu, Yu-Fei Chang*
		6	**E2310** **Silicon Nanowire Photodiode Based Charge-Balanced Stimulus Circuit for Retina Prosthesis** *Teahwan Kim, Seungju Han, Changhee Kim, Sangmin Lee*
		7	**E2311** **Vertically Stacked Silicon Nanowire pH Sensor Fabrication with Deep Reactive Ion Etching Technology** *Changhee Kim, Seungju Han, Teahwan Kim, Sangmin Lee*
		8	**G2313** **Carbon Dioxide Capture Performance of Mesostructured Adsorbent Impregnated with Polyethylenimine** *Chien-Hung Chen, Ching-Tsung Yu, Yu-Fei Chang*
		9	**G2315** **Impact of GCP Chip Distribution to Kompsat-3A RPCs Bias-Compensation** *Hyeonjeong Jo, Changno Lee, Jaehong Oh*
		10	**J2313** **The Design of Deep Drawing Mechanism with Hybrid Inputs** *Long-Chang Hsieh, Tzu-Hsia Chen, Po-Chen Lai, Hao-Hang Chang*

Date	Time	No.	
29th October (Sun.)	**10:15 | 12:00**	11	**G2311** **Evaluation on the Mechanical Properties of Refined Fly Ash and Fly Ash as a Partial Replacement of Cement in Concrete** *Hui-Mi Hsu, Radina Liga, Lukáš Fiala, Wei-Ting Lin, An Cheng, Yao-Syuan Lin*
		12	**J2314** **Temporary Support System Safety for Basket Type Suspension Cable Bridge Maintenance Research** *Ren-Jwo Tsay*
		13	**SM2311** **Operational Analysis on Loading Cars in Cargo Ship Using Autonomous Vehicle Technology Using Microscopic Traffic Simulation** *Sung-Ha Kim, Chae-Rin Lee, Ki-Han Song, Wonho Suh*
		14	
		15	