

October 25

Day 1

Session A1 | Onsite Oral | Room A

Date	Time	F. Computer & Information Engineering ; SB. Applications in Machine Learning and Smart Automation ; SL. Artificial Intelligence for Image Processing <i>Session Chair: Name ; Name</i>
25th October (Sat.)	08:30 08:45	F2512 Constructing a Sales Prediction Model for Live Commerce on Douyin (TikTok): Using Streaming Strategy Data and Viewer Comment Data <i>Yi Mei, Kohei Otake</i>
	08:45 09:00	F2513 Analysis of Consumer Behavior Based on Product Selection Criteria Using Eye-Tracking Data <i>Xiao Zhang, Kohei Otake</i>
	09:00 09:15	F2515 Analysis of the Effect of Product Involvement on In-Store Search <i>Aina Ishikawa, Kohei Otake</i>
	09:15 09:30	F2511 Design and Implementation of an AI Teaching Assistant Based on Large Language Models for the Level B Certification Course in Computer Hardware Repair <i>Cheng-Hsiu Li</i>
	09:30 09:45	F2517 CONCOLIC GAN: A GAN-Based Framework for Enhancing State Coverage in Concolic Testing <i>Yojiro Harie, Yuto Ogata, Katsumi Wasaki</i>
	09:45 10:00	SL2516 Video Classification System Based on CNN+LSTM <i>Yong-Jie Li, Chun-Ta Wei, Zexin Shen, Chingmai Ko</i>
	10:00 10:15	SB2513 Development of Recyclable Waste Detection and Classification Systems by Using YOLO Object Recognition and Image Retrieval Internet Intelligence <i>Jeng-Han Li, Chi-Ping Cheng, Stefan Sloan Graham</i>

Session A2 | Onsite & Online Oral | Room A

Date	Time	A. Materials Engineering ; B. Mechatronic and Robotics Engineering ; E. Chemical & Biomedical Engineering ; SK. Mechanism, Machine and Electric Machine Design ; SL. Artificial Intelligence for Image Processing ; SM. Advances in Computer Material and Related Application <i>Session Chair: Name ; Name</i>
25 th October (Sat.)	10:30 10:45	SK2511 Simulation Design Analysis of Wireless Power Transfer System for Different Models <i>Wan-Tsun Tseng, Yu-Pei Chen, You-Ming Zheng</i>
	10:45 11:00	SK2513 Analytical Modeling of Flux Modulated Cycloidal Magnetic Gears <i>Yi-Chang Wu, Feng-Ming Ou, Saian Nur Fajri</i>
	11:00 11:15	A2511 Absorption Analysis of Composite Metal Foam Sandwich Structure <i>Yu-Liang Chen, Shang-Cheng Liu, Ying-Chih Lin</i>
	11:15 11:30	B2513 Development and Design of Ball-Chain Driven Bionic Palm <i>Po-Hung Cheng, Nai-Wen Chang, Yi-Fan Hsu, Chieh-Mao Chan, Meng-Hua Li, Kuen-Ming Shu</i>
	11:30 11:45	E2511 (Online) Integrative Epidemiologic and Transcriptomic Analysis of the Association Between Hypertension and Chronic Kidney Disease <i>Yung-Hao Wong, Feng-Chyi Duh, Christian Diego Allena</i>
	11:45 12:00	SM2512 (Online) Sol-Gel Processing of PMMA/Silica Composite Coatings to Improve the Mechanical Behavior of Ti-6Al-4V <i>Cheng-En Jiang, Guan-Yu Chen, Shih-Chen Shi</i>
	12:00 12:15	SL2517 (Online) Robust Identifier Watermarking for Facial Images against Deepfake Attacks <i>Tran Thi Ngoc Tin, Yih-Chuan Lin, Hsu-Chih Cheng</i>
	12:15 12:30	

Session A3 | Onsite Oral / Paper Award | Room A

Date	Time	<p>C. Electrical & Electronic Engineering ; SA. Best Paper Awards ; SG. System Development, Control, and Optimization ; SJ. Applied Technology and Education</p> <p><i>Session Chair: Prof. Feng Ming Ou</i></p>
<p>25th October (Sat.)</p>	<p>14:00 14:15</p>	<p>SA2512 (Paper Award) Digital Transformation in Restaurant Services: Examining Consumers' QR Code Menu Continuance Intention through Cost-Benefit Theory <i>Chun-Hua Hsiao, Kai-Yu Tang, Chien-Hung Lin</i></p>
	<p>14:15 14:30</p>	<p>C2511 Data-Driven Optimal Siting and Sizing of PV Systems for Legacy Government Buildings Using MILP and Few-Shot Learning <i>Napoleon Joey Agcanas Vistal Jr, Gerard Francesco De Guzman Apolinario</i></p>
	<p>14:30 14:45</p>	<p>C2512 Development of a MILP-Based Demand Side Energy Management Strategy for a University Academic Building <i>James Karl L Hernandez, Gerard Francesco De Guzman Apolinario</i></p>
	<p>14:45 15:00</p>	<p>SG2511 Analysis and Research on the Effectiveness of Youth Financial Education APP <i>Li-Feng Lin, Chia-Chun Chu, Jia-Ren Wu, Yu-Hong Yu, Hsin-Lan Yang, Zhi-Yu Zhong, Zi-Wen Xie, Yun-Ru Li</i></p>
	<p>15:00 15:15</p>	<p>SJ2511 Dimensional Accuracy Enhancement of Circular Endmill on CNC Machines Through Integrated Experimental Design Methods <i>Dyi-Cheng Chen, Yu-Ting Chen, Yi-Chong Chang, Yu-Jie Chang</i></p>
	<p>15:15 15:30</p>	<p>SJ2512 An Investigation into Enrollment Motivations and Instructional Objectives Among Vocational High School Students in the Mechanical Engineering Group <i>Dyi-Cheng Chen, Wei-Lun Den</i></p>

Date	Time	No.	
25 th October (Sat.)	14:00 15:30	1	SG2512 Refining Cybersecurity Awareness Assessment Items Using the Delphi Method: A Revision Study Based on the HAIS-Q Framework <i>Fu-Hsiang Wen, Wei-Chih Hsu</i>
		2	SG2513 Factors Facilitating University Students' Self-Regulated Learning Behaviors of Artificial Intelligence in Education <i>Tienhua Wu, Kuang-You Tien</i>
		3	SG2514 Supporting Students' Self-Regulated Learning Through Generative Artificial Intelligence Applications <i>Kuang-You Tien, Tienhua Wu, Guan-Ying Lu</i>
		4	SL2511 An Automated Docking Robot System Integrating Depth Pallet Image Detection and Autonomous Pose Recognition <i>Ching-Chang Wong, Zi-You Huang, Hsuan-Ming Feng, Chi-Yi Tsai</i>
		5	A2513 Mercury Ion Detection Using CdSe/ZnS Quantum Dot Hydrogel <i>Hsin-Yi Wen, Fu-Chuan Pan</i>
		6	G2512 Experimental Analysis of Lighting for Energy Savings and Thermoelectric Materials Benefits <i>Chi-Yu Lin, Chia-Yi Tsai</i>
		7	O2511 Study on the Application of Supersonic Shockwaves to Improve the Efficiency of Deep Fertilization and Root Zone Loosening of Woody Crops <i>Ming-Sen Hu</i>
		8	SK2514 Conceptual Design of a Descent Device with an Eddy Current Braking Mechanism <i>Yi-Chang Wu, Chia-Chun Chu, Chin-Tsung Chan, Yan-Wei Huang</i>
		9	SM2511 Strain Rate Effect on the Polymer Composite with Natural SiO₂ and Cellulose Additions <i>Chi-Fan Liu, Shih-Ying Su, Tao-Hsing Chen</i>
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October 26

Day 2

Session A4 | Onsite Oral | Room A

Date	Time	G. Green Technology & Civil Engineering ; SE. Recent Innovations and Applications in Multimedia <i>Session Chair: Name ; Name</i>
26th October (Sun.)	08:30 08:45	SE2511 Lightweight Face Recognition Access Control System Using MobileNetV3-Small and CBAM <i>Tsai-Tieh Hsu, Jia-Shing Sheu</i>
	08:45 09:00	SE2512 The Application of a YOLOv5-Based Multi-Class Beverage Carton Recognition System <i>Ming-Ta Chen, Jia-Shing Sheu</i>
	09:00 09:15	SE2513 Adaptive Eye Localization and Fatigue Monitoring for Driver via Enhanced Image Processing Algorithm <i>Sheng-Jie Lin, Jia-Shing Sheu</i>
	09:15 09:30	G2515 Evaluation of Sediment Control Effectiveness of U-Shaped Trap in Deep Stormwater Drainage Tunnel Using OpenFOAM <i>Yoon-Seo Lee, Chan-Jin Jeong, Seung-Oh Lee</i>
	09:30 09:45	G2516 Numerical Assessment Toward Resilient Levee Design: Deformation-Based Stability Evaluation Under Repeated Hydraulic Loading <i>Chanjin Jeong, Yoon-Seo Lee, Seung-Oh Lee</i>
	09:45 10:00	G2519 Correlation Analysis Between Urban Pluvial Flooding and Topographic Indices Derived from DEM <i>Jun-Young Kim, Hyun-Woo Kim, Gyu-Won Seo, Seung-Oh Lee</i>
	10:00 10:15	G2514 Conceptual Framework and Real-Time Evaluation Method for Advancing Urban Flood Resilience <i>Su Min Song, Chanjin Jeong, Jun Young Kim, Seung-Oh Lee</i>

Session A5 | Onsite Oral | Room A

Date	Time	SB. Applications in Machine Learning and Smart Automation <i>Session Chair: Prof. Chung-Chi Huang</i>
26th October (Sun.)	10:30 10:45	SB2517 Service Quality Gaps and Instructor Branding in the AI Era <i>Chia-Chi Huang, Chung-Te Ting</i>
	10:45 11:00	SB2518 Machine Learning Based Ground Operation Scheduling for Reducing Aircraft Taxiing and Idle Emissions <i>Chung-Lin Huang, Chung-Chi Huang, Song-Yih Lin, Ching-I Chaing</i>
	11:00 11:15	SB2519 Applying Deep Reinforcement Learning to Optimize Route Planning Reducing the Carbon Footprint of Air Transportation <i>Chung-Lin Huang, Chung-Chi Huang</i>
	11:15 11:30	SB2520 A Contextual Reinforcement Learning Based Decision Support System for Future Product Production <i>Chung-Chi Huang, Chung-Lin Huang, Yen-Wen Chen</i>
	11:30 11:45	SB2521 A Study on Inverse Process Parameter Optimization Using Contextual Reinforcement Learning <i>Chung-Chi Huang, Chung-Lin Huang, Hsiao-Hung Yen</i>
	11:45 12:00	SB2522 AI-Based Learning Intervention and Its Impact on the Self-Efficacy of Older Adult Learners <i>Hsiao-Man Liu, Chung-Chi Huang, Chung-Lin Huang</i>
	12:00 12:15	SB2512 Research for Unsupervised Learning Based on Multi-Criteria Evaluation <i>Ji-Pyng Chiou, Wei-Chen Lai</i>
	12:15 12:30	

Poster B5 | Onsite Poster | Hallway

Date	Time	No.	
26 th October (Sun.)	10:30 12:00	1	F2514 Design and Implementation of an AIoT-Oriented Aquaponics System: Integrated Application of Environmental Sensing and Remote Control <i>Chin-Ang Li, Wei-Chih Hsu</i>
		2	SF2511 Research on Blood Cell Detection and Count in Microscopic Smear Images Using YOLO and Uniform Experimental Design Method <i>Yao-Mei Chen, Jinn-Tsong Tsai, Wen-Hsien Ho</i>
		3	SF2512 An Intelligent System for Measuring Muscle Mass Using Sound Injection Resonant Myophonograms in Sarcopenia Patients <i>Wen-Hsien Ho, Yenming J. Chen, Hui-Ci Huang</i>
		4	J2511 Innovative Design and Application of Auxiliary Standing Chairs <i>Long-Chang Hsieh, Tzu-Hsia Chen, Po-Cheng Lai</i>
		5	J2512 Innovative Design and Motion Analysis of a Variable Pitch Preform Conveying Mechanism with an Inverted Flat Cam <i>Long-Chang Hsieh, Tzu-Hsia Chen, Po-Cheng Lai, Yu-Kuan Lee, Kai-Hsing Chang, Sheng-Wen Zheng</i>
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Date	Time	No.	
26 th October (Sun.)	08:30 10:15	1	C2513 The Study of Field-Oriented Control Based Motor Drive for an Electric Vehicle <i>Tze-Yee Ho, Tsung-Feng Yen, Yu-Hsuan Shen, Yuan-Joan Chen</i>
		2	F2516 A Lightweight Framework for Enhancing Seasonal Robustness in Satellite Image Change Detection <i>Jaeuk Ryu, Jaehong Oh</i>
		3	N2511 Advancing Large Language Models with Self-Correcting Agentic Retrieval-Augmented Generation <i>Yu-Ching Lin</i>
		4	SC2511 Deep Neural Networks with Local Texture and Geometric Augmentation for Facial Expression Recognition <i>Zi-Jie Lin, Ching-Yi Chen</i>
		5	SB2515 Machining Quality Prediction in Stainless Steel Side Milling Using Neural Networks <i>Ming-Hsu Tsai, Jeng-Nan Lee, Teng-Hui Chen, Tai-Lin Hsu, Dong-Ke Huang</i>
		6	SB2516 Virtual Manufacturing and Machine Learning-Based Process Optimization for Direct Energy Deposition of Aerospace Components <i>Jeng-Nan Lee, Cheng Lin, Yi-Cherng Ferng, Kuo-Kuang Jen, Ming-Hsu Tsai</i>
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