Session A1 (1F - Caval Vine)

Date	Time	H. Industry 4.0 & Automation Engineering; I. Control Engineering; K. Nanotechnology; O. Other Engineering and Technology related topics; SO. Intelligent Manufacturing and Forming Technology Session Chair: Prof. Dyi-Cheng Chen; Prof. Quang-Cherng Hsu
24 th Oct. (Sat.)	08:00~08:12	H209 Weld Image Deep Learning-Based Defects Detection Using Autoencoder Networks and Self-Organizing Map Yen-Han Chiang, Chia-Chin Chen, Chih-Min Yao, Wei Chih Su
	08:12~08:24	H210 An Intelligent Optimization System for the Photolithography Process of Color Filter Wen-Chin Chen, Yu-Ying Chan, Kuan-Ming Lin, Chen-Cheng Yu, Wu-Der Jeng
	08:24~08:36	SO201 Apply the Taguchi Method Combined with Machine Learning in Finite Element Analysis of Flat Bottom Engraving Cutter Dyi-Cheng Chen, Ci-Syong You, Shih-Ming Huang
	08:36~08:48	SO202 The Research on Optimization Parameters for End Mill Cutting Using Taguchi Method Dyi-Cheng Chen, Tzu-Wen Chen
	08:48~09:00	SO203 Image Feature Analysis for Magnetic Particle Inspection of Forging Defects Jhan-Hong Ye, Rui-Hong Ni, Quang-Cherng Hsu
	09:00~09:12	SO204 The Comparison Study of Different Machine Learning Algorithms for Task Failure Prediction of Wafer Handling Robot Arms Ping Wun Huang, Kuan-Jung Chung
	09:12~09:24	H212 On the Rotatory Conveying of a Vibratory Platform Driven by Eccentric Rotating Mass Motors Wen-Hsiang Hsieh, Yasya Khalif Perdana Saleh
	09:24~09:36	O207 Machine Learning of Trap-Neuter-Return Surgery Images for Stray Animals by Using Object Detection and Decision Fusion Yi-Cheng Huang, Ting-Hsueh Chuang, Yeong-Lin Lai
	09:36~09:48	I202 Robust Self-Adaptive Kalman Filter with Application in Target Tracking Yi-Wei Chen, Ken-Ming Tu
	09:48~10:00	K203 Promotion of ppm-scale Detection of Impurity in Reagent via Scanning Mobility Particle Sizer Alice Chinghsuan Chang, Fang-Hsin Lin





Session A2 (1F - Caval Vine)

Session A2 (1F - Caval Vine)			
Date	Time	B. Mechatronic and Robotics Engineering; F. Computer & Information Engineering; H. Industry 4.0 & Automation Engineering; O. Other Engineering and Technology related topics; SK. Recent Advances in Green Innovative Materials and Construction Technology in Civil Engineering; SL. Applications in Machine Learning and Smart Automation; C. HEALTH CARE TECHNOLOGY; F. MODELLING, SIMULATION, SYSTEMS AND CONTROL	
		Session Chair: Prof. Wei-Ting Lin; Prof. Wen-Chung Kuo	
24 th Oct. (Sat.)	10:15~10:27	WC207 Fall Detection Bases on Multiple AIOT Biomedical Sensors for Elders Cheng-Wen Lee, Hsiu-Mang Chuang	
	10:27~10:39	WF202 Design of a Seniors and Alzheimer's Disease Caring Service Platform Cheng-Wen Lee, Hsiu-Mang Chuang	
	10:39~10:51	SK204 Performance of Green Concrete and Inorganic Coating Materials Sung-Ching Chen, Wei-Ting Lin, Ran Huang, Hui-Mi Hsu	
	10:51~11:03	SK205 Influence of the Amount of Cement Substituted by Pozzolanic Materials on the Compressive Strength and pH Value of Concrete Chi-Che Hung, Wei-Ting Lin, An Cheng, Yuan-Chieh Wu	
	11:03~11:15	H213 On a Press System with Six Links Considering Functional and Energy-Saving Requirements Wen-Hsiang Hsieh, Muhammad Syafiq	
	11:15~11:27	F207 A Tamper-Proof Secret Image Sharing Scheme Wen-Chung Kuo, Chun-Cheng Wang, Yi-Jiun Chen, Lih-Chyau Wuu	
	11:27~11:39	F212 Vehicle Detection and Tracking with Kalman Filter Based on Multiple Objection Classifier Cong-Hung Nguyen, Miin-Jong Hao, Te-Jen Su, Shou-Sheu Lin	
	11:39~11:51	O203 Obstacle Tracking Method Integrated with Cartographic Information Based on Sensor Fusion Siang-Min Siao, Ying-Ren Chen	
	11:51~12:03	O204 A Dynamic Location Transformation Method for Autonomous Vehicle Relocalization Using Stereo ORB-SLAM Cheng-Kai Wang, Yi-Jie Lin, Hung-Pang Lin	
	12:03~12:15		
	12:15~12:27	B206 Application of Image Recognition in Workpiece Classification Hsin-Yi Chien, Yu-Chen Wang, Guan-Chen Chen	

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Paper Award

Date	Time	1F - Sakura & Osmanthus
	13:30-13:42	SA201 The Motion Path Detection Using Vision and Multi-Cloud Computing Shao-Yu Lin, Jia-Shing Sheu
	13:42~13:54	SA202 Tea Verification Using Triplet Loss Convolutional Network Kun-Yi Chen, Chi-Yu Chang, Zhi-Ren Tsai, Chun-Ting Lee, Zon-Yin Shae
	13:54~14:06	SA203 Camera Handoffs for Muti-Camera Muti-Object Tracking Jing-Han Lai, Jia-Shing Sheu
	14:06~14:18	SA204 Lane Shift Detection Warning System Using Computer Vision Chun-Kang Tsai, Jia-Shing Sheu
	14:18~14:30	SA205 Multi-Objective Optimization Design of a Centrifugal Pump Volute Casing Based on Hybrid Teaching Learning—Based Optimization Algorithm Tien V.T. Nguyen, Shyh-Chour Huang
24 th Oct. (Sat.)	14:30~14:42	SA206 Introducing Kernel Density Estimation Based Clustering into Dockless Shared Bicycle Flow Control Shang-Yuan Chen, Tzu-Tien Chen
	14:42~14:54	SA207 Development of a Small Intelligent Weather Station for Agricultural Applications Yi-Hua Chung, Jun-Fu Huang, Yuan-Chen Hu, Chen-Kang Huang
	14:54~15:06	SA208 Cold Sensation Increased Plantar Tactile Sensation for Young Female Tianyi Wang, Shima Okada, Masaaki Makikawa, Yuko Ohno
	15:06~15:18	SA211 Mix Resolution Real Time Sepsis Data Analysis Using ANN Peter I-Tsyuen Chang, Jerome Aboab, Yi-Ru Lu, Ahmad Khairul Faizin, Chun-Fan Chang
	15:18~15:30	SA209 Effect of NaOH Molarities on Compressive Strength and Microstructures of Reactive Ultra Fine Fly Ash Geopolymer Wei-Ting Lin
	15:30~15:42	SA212 Using Deep Learning Technology to Realize the Automatic Control System of Robot Arm Based on Hand Gesture Recognition Shang-Liang Chen, Li-Wu Huang





Session A3 (1F - Caval Vine)

Session A3 (1F - Caval Vine)			
Date	Time	C. Electrical & Electronic Engineering; J. Mechanical Engineering; SU. Innovations on Composite and Its Applications Session Chair: Prof. Wan-Tsun Tseng; Prof. Wen-Cheng Yeh	
25 th Oct. (Sun.)	08:00~08:12	J205 A Numerical Approach to Modify Finger-Type Forming Tool Profile and Enhance Machining Accuracy for Vacuum Pump Screw Rotors Minh-Thuan Hoang, Yu-Ren Wu	
	08:12~08:24		
	08:24~08:36		
	08:36~08:48	J221 Meshfree Method for Geometrical Nonlinear Analysis of Frames with a Finite Deformation Theory Wen-Cheng Yeh	
	08:48~09:00	J229 Optimization of Coaxial Magnetic Gear Mechanisms Used for Small-Scale Counter-Rotating Wind Turbines Yi-Chang Wu, Mi-Ching Tsai, Saian Nur Fajri	
	09:00~09:12	C209 Voltage-Mode Quadrature Sinusoidal Oscillator Using Current-Feedback Amplifiers Hua-Pin Chen, Cheng-Mao Yang, An-Chun Yeh, Cheng-Hsin Lu, Shih-Jun Chen	
	09:12~09:24	C210 Voltage-Mode Universal Biquadratic Filter with Three Inputs and Single Output Using Five Single-Ended OTAs and Two Grounded Capacitors and Its Application Hua-Pin Chen, Yi-Chun Lin, Jen-Wei Chen	
	09:24~09:36	C211 High-Input Impedance Voltage-Mode Multifunction Filter Hua-Pin Chen, Yi-Fang Li	
	09:36~09:48	C212 Voltage-Mode and Current-Mode Quadrature Oscillator with Fully Uncoupled Electronic Control of Oscillation Condition and Frequency Hua-Pin Chen, Ming-Xiu Zhong, Yu-Zhe Gao, Jen-Wei Chen, Yuan-Cheng Yi	
	09:48~10:00	SU201 Magnetic Circuit Analysis of a Novel Three-Phase Asynchronous Motor with Wound Rotor Wan-Tsun Tseng, Yu-Chih Cheng	

Session A4 (1F - Caval Vine)

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Date	Time	E. Chemical & Biomedical Engineering; G. Green Technology & Civil Engineering; M. Innovation Management; O. Other Engineering and Technology related topics; SX. Innovations on Control and Its Applications; SF. Recent Advances in Bioinformatics; A. BIOCOMPUTING AND BIOINFORMATICS; C. HEALTH CARE TECHNOLOGY; F. MODELLING, SIMULATION, SYSTEMS AND CONTROL Session Chair: Prof. Yean-Der Kuan; Prof. Hsiang-Chen Hsu
	10:15~10:27	G208 The Effect of Hydrogen Production Rate of the Via Different Preparation of Co-Based Catalyst with Sodium Borohydride Jyun-Lin Lai, Win-Jet Luo, Yean-Der Kuan
	10:27~10:39	G209 To Monitor and Diagnose Structure Health Via Conv-Lstm Chih-Hao Chou
	10:39~10:51	O209 A Fuzzy Control Model for the Health of the Senior Visitors within a Virtual Museum Cheng-Li Liu, Shiaw-Tsyr Uang
	10:51~11:03	SX202 Application of Heat Recovery System for Replaceable Low-Carbon Smart Building Yu-Wei Chiu, Wei-Ming Chiu, Yean-Der Kuan
	11:03~11:15	E209 Design and Fabrication on Wearable Medical Device for Initial Osteoarthritis (OA) Detection Hsiang-Chen Hsu, Jia-Jung Wang, Shih-Han Wu
25 th Oct. (Sun.)	11:15~11:27	WA202 Real-Time Sepsis Onset Detection from High-Resolution Biosignals Using Artificial Neural Network Peter I-Tsyuen Chang, Jerome Aboab, Yi-Ru Lu, Ahmad Khairul Faizin, Chun-Yao Huang
	11:27~11:39	WC201 Assessment of Potential Human Health Risks in Aquatic Products Based on the Heavy Metal Hazard Decision Tree Pinpin Lin, Hao-Hsiang Ku, Min-Pei Ling
	11:39~11:51	SF205 A Primary Study on Human Kinematics Realtime Estimation-Openpose Tung-Kuan Liu, Kai Hsiao
	11:51~12:03	M203 Strengthen the Data Protection Architecture of Sports Even with Blockchain Technology Hsia-Hung Ou
	12:03~12:15	WF201 The Revolution of Cultivating Edible Mints via AIoT Techniques in an Office Setting Hao-Hsiang Ku, Cheng-Hsuan Liu, Wen-Cheng Wang
	12:15~12:27	



Session C1

Session C		SQ. Advances in Ocean Engineering and Marine Science
Date	Time	Session Chair: Prof. Deokheee Won
	08:00~08:12	SQ208 A Study on the Analysis of Minimum Speed Control Effect Using Queue Model–Focused on Busan Port Sang-Won Park, Won-Sik Kang, Young-Soo Park
	08:12~08:24	SQ211 Internal Force Evaluation of a Submerged Floating Pipeline under Irregular Waves Deokhee Won, Jihye Seo, Jong-Sup Park, Seungjun Kim
	08:24~08:36	SQ212 Abnormally High Water Temperature Prediction Using LSTM Deep Learning Model Hey-Min Choi, Min-Kyu Kim, Hyun Yang
	08:36~08:48	SQ213 Dynamic Behavior of a Long-Span Cable-Stayed Bridge with Floating Towers after the Sudden Failure of Tethers and Cables under Irregular Waves Minseo Jang, Yunwoo Lee, Seungjun Kim, Young-Jong Kang
24 th Oct.	08:48~09:00	SQ214 Short-Term Fatigue Damage of Tethers of Long-Span Floating Cable Supported Bridges under Harsh Waves Deokhee Won, Young-Jong Kang, Seungjun Kim
(Sat.)	09:00~09:12	SQ215 A Study on the Development of Collision Warning System for Small Maritime Autonomous Surface Ship Won-Sik Kang, Young-Soo Park
	09:12~09:24	SQ216 Marine Drone Design and Sea-Trial for Long-Term/Long-Time Oceanographic Observation Jongsu Yoon, Jinhun Choo, Wook Kwon, Taegyu Hwang, Seong-Yong Kwon
	09:24~09:36	SQ217 Risk Assessment to Identify High-Collision Potential Vessel-Bridge Pairs in Vessel Traffic Service Jeong-Bin Yim, Chun-Ki Lee
	09:36~09:48	SQ218 Modeling the Navigator's Errors Involved in Collision Accidents by Means of Hidden Markov Models Deuk-Jin Park, Jeong-Bin Yim, Chun-Ki Lee
	09:48~10:00	SQ219 Analysis on Temporal and Spatial Varibility of Cold Water Zone in the Pohang of Korea Suk Yoon, Hyun Yang

Session C2

Session C		F. Computer & Information Engineering; N. Intelligent Computing
Date	Time	Session Chair: Dr. Sheng-Jie Ke
	08:00~08:12	F203 What Product Descriptions Drive Sales? An Application of a Text Mining Analysis and the Wavenet Neural Network Model Sheng-Jie Ke, Dan Liu
	08:12~08:24	F206 The Solution of Check Hidden Systray Icon in Windows Hao-Ting Chien, Jwo-Shiun Sun, Guan-Yu Chen
	08:24~08:36	F208 Use Serverless Architecture to Monitor Host or Service Performance, and Critical Logs Chih-Chia Wang, Jwo-Shiun Sun, Guan-Yu Chen
	08:36~08:48	F211 Analysis and Application of Autoencoder's Features from Addiction Data of Questionnaire Kappeta Uma, Zhi-Ren Tsai, Zon-Yin Shae, Huei-Chen Ko, Jeffrey J.P. Tsai
	08:48~09:00	F213 The Energy-Aware Multi-UAV Dispatch and Handoff Algorithm for Maximizing the Event Communication Time in Disasters Ing-Chau Chang, Chi-Sheng Liao, Chin-En Yen
25 th Oct. (Sun.)	09:00~09:12	N202 Sentence Similarity Evaluation Using Siamese Attention Capsule Network Tak-Sung Heo, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim
	09:12~09:24	N203 Attention-Based Post-Editing for Improving Performence of Korean Speech Recognition Model Yeong-Seok Jeong, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim
	09:24~09:36	N204 Automatic Word Spacing of the Korean Using Syllable and Morpheme Units Information Jeong-Myeong Choi, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim
	09:36~09:48	N205 Attentive Local Feature and Capsule Networks Based Text Classification for Language Development Measurement Byoung-Doo Oh, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim
	09:48~10:00	N206 Topic Modeling for the Analyzing Difference of Topic Management Ability by Age Group Seok-Ju Hwang, Hye-Jeong Song, Jong-Dae Kim, Chan-Young Park, Yu-Seop Kim



Session C3

Session C3			
Date	Time	A. Materials Engineering; C. Electrical & Electronic Engineering; H. Industry 4.0 & Automation Engineering; J. Mechanical Engineering; O. Other Engineering and Technology related topics; SM. Recent Advances in Surveying and Geomatics Engineering Session Chair: Prof. Myeong-Hun Jeong	
	10:15~10:27	C215 The Study of Oscillator Design and Operation Tsung-Lung Ho, Jwo-Shiun Sun, Guan-Yu Chen	
	10:27~10:39	C217 The Study of Ultra-Low Voltage Analog IC Design Tsung-Lung Ho, Jwo-Shiun Sun, Guan-Yu Chen	
	10:39~10:51	C223 A Fast and Accurate Method Based On Calorimetry for Entropy Extraction of Li-Ion Battery Using Flexible Thermoelectric Devices Abdul Muiz Ahmad, Guillaume Thenaisie, Sang-Gug Lee	
	10:51~11:03	H204 A Prediction Method of Maintenance Time Based on Levenberg Marquard Neural Network Chao Dai, Dong Zhou, Shaohua Wang, Xiangming Jin	
	11:03~11:15	O205 The Discuss of the Use of IR with Liveness Detection Jun-Cheng Chen, Jwo-Shiun Sun, Guan-Yu Chen	
25 th Oct. (Sun.)	11:15~11:27	O210 An Improved FFIP Method Based on Mathematical Logic and SysML Shujie Pang, Jian Jiao	
	11:27~11:39	J214 Buckling Test of Composite Cylindrical Shells with Large Radius Thickness Ratio Atsushi Takano, Ryuta Kitamura, Takuma Masa, Jingxuan Bao	
	11:39~11:51	SM208 Highway Speed Prediction Using Gated Recurrent Units Neural Networks Myeong-Hun Jeong, Tae-Young Lee, Seung-Bae Jeon, Minkyo Youm	
	11:51~12:03	SM210 Risk Assessment of Urban Environment by Combining Sentinel-1 and Landsat-8 in Mw 7.0 Lombok Earthquake Minkyo Youm, Myeong-Hun Jeong, Junkyeong Kim, Haksun Kim, Jinsung Yoon	
	12:03~12:15	A205 Effect of Lap Length and Stiffness of Peel-Stop Fasteners for Single Lap Joint Atsusi Takano, Chao Li, Ryuta Kitamura	
	12:15~12:27	A206 Development of Pre-Molded Internal Threads on Composite Tubes Atsushi Takano, Ryuta Kitamura, Takuma Masai, Sayaka Nishino	