

The 7th International Conference on Ambient Intelligence and Ergonomics in Asia

Program

Date	Time	Event			
2/23 Fri.	15:00- 17:00	Registration			
2/24 Sat.	09:00 - 09:30	Registration (Lobby, 1 st Floor, Building C,)			
	09:30 - 10:20	Opening Ceremony (Assembly Hall, 3 rd Floor, Building A)			
	10:20 - 11:20	Keynote Speech Speaker: Lerdah, Shiann Jang Wang (Assembly Hall, 3 rd Floor, Building A)			
	11:20 - 11:50	Campus Tour			
	11:50 - 13:00	Lunch Break (Santa Cruz Room, 2 nd Floor, Building C)			
	13:00 - 14:20	Parallel Session 1 Ambient Intelligence in Art Culture (Room: A501)	Parallel Session 2 Occupational Health (Room: A502)	Parallel Session 3 Cognitive Ergonomics (Room: A503)	Special Session 1 Management Science (Room: C504)
		Cultural Session 1 (Tea Room, 7 th Floor, Building C)			
	14:20 - 14:40	Coffee Break (Elevator Hall, 5 th Floor, Building A)			
	14:40 - 16:00	Parallel Session 4 Augmented Reality & Virtual Reality (Room: A501)	Parallel Session 5 Robot, Exoskeleton and Artificial Intelligence (Room: A502)	Parallel Session 6 Multidisciplinary (Room: A503)	Special Session 2 Sustainability Management (Room: C504)
	18:00 - 20:00	Welcome Banquet (Nago Room, 3 rd Floor Banquet Halls, Nagoya Kanko Hotel)			

Date	Time	Event
2/25 Sun.	09:30 - 10:40	Virtual Session I
	10:40 - 11:00	Break

	11:00 - 12:10	Virtual Session II
--	------------------	--------------------

Date	Time	Event
2/26 Mon.	09:30 - 12:00	Scenic Tour

Technical Program
Oral Session-Saturday, 24 February 2024
13:00-14:20

Parallel Session 1: Ambient Intelligence in Art Culture (Room: A501)		
13:00 ~ 14:20	Session Chair: <i>Tin-Chang Chang</i>	
	ID4	Exploring the Application of Instant Messaging Application in Teacher-Student Relationships Through a Technology-Acceptance Model
		<i>Tin-Chang Chang, Chung-Cheng Hsieh, Chin-Chan Wu</i>
	ID27	Cultural Renaissance in The Digital Era: A Comprehensive Analysis of Settlement-Based Cultural Villages and Their Impact on the Preservation of Traditional Cultural Resources
		<i>Tin-Chang Chan, Yiming Lyu</i>
	ID28	Research on the Etude of Yang, Nani'S Guzheng Tutorial
		<i>Jiacheng He</i>
	ID29	Research on the Development of Cross Border E-Commerce Exprts in China's Swimwear Industry
		<i>Tin-Chang Chang, Jiarui Liang</i>

Parallel Session 2: Occupational Health (Room: A502)		
13:00 ~ 14:20	Session Chair: <i>Peng-Cheng Sung</i>	
	ID5	Physiological and Psychological Strains for Female Conveyor Belt Workers
		<i>Peng-Cheng Sung, Yi-Ru Huang</i>
	ID6	Physiological Strain of Precision Casting Workers
		<i>Peng-Cheng Sung, Yu-Chen Chang</i>
	ID7	Effects of Pressing Frequency and Flashing Pattern on Workloads for Simulated Push-Button Tasks
		<i>Peng-Cheng Sung, Ling Shang</i>
	ID14	Work Study on Musculoskeletal Injuries in Assembly Operations of Bar Feeder - A Case Study of Vs-65
		<i>Yu-Cheng Lin, Chia-Chen Kuo, Chu-Chieh Tasi, Zin-Lin Tsai, Jin-Zhi Zhang, Yung-Cheng Nien</i>
	ID24	Apply machine learning to build and evaluate lower limb activity classification models
		<i>Yi-Chen Chen, Yung-Ping Liu, Peng-Cheng Sung, Nien-Hao Cheng, Mei-Jun Ou</i>

Parallel Session 3: Cognitive Ergonomics (Room: A503)		
---	--	--

13:00 ~ 14:20	Session Chair: Wei-Ru Chen	
	ID18	Examining Differences in Post-Stroke Driving Self-Efficacy Among Individuals with Different Limb Injuries
		<i>Wei-Ru Chen, Ya-Lin Chen</i>
	ID20	Using Event Tree and Fault Tree Analyses to Explore Fire Incidents
		<i>Pei-Chia Wang, Yu-Sen Zheng, Yu-Xiang Lin</i>
	ID21	Compare the Subjective Mental Workload Between General and Commercial Controller
		<i>Pei-Chia Wang, Yen-Chun Huang, Liang-Tai Fang</i>
	ID30	Design an Dietary Management App via the User Experience Design Framework
		<i>Chia-Fang Chang, Jia-Cheng Chang, Li-Fen Yeh</i>
	ID45	Exploring the Adaptability of New Media Curriculum Planning from the Student Perspective
		<i>Chih-Fu Wu, Tien-sheng Lin, Zhi Xuan Chen</i>

Special Session 1: Management Science (Room: C504)		
13:00 ~ 14:20	Session Chair: Hsin-I Amy Lee	
	ID8	Enhancing Equity and Sustainable Development in Music Education: Exploring the Influence of an AI Piano Tutoring System on Motivation and Performance Across Age Groups
		<i>Ming-Lang Yeh, Wen Pei, Mei-Ling Hu</i>
	ID9	What are Factors Affecting Consumers' Purchase Intention Toward Ota-Data Analysis with SmartPLS
		<i>Ming-Lang Yeh, Wen Pei, Ping-Chen Shih, Pei-Chih Ting</i>
	ID10	Application of Quality Function Deployment, Failure Mode and Effect Analysis and Fuzzy Analytic Network Process in Semiconductor Packaging
		<i>Amy H. I. Lee, He-Yau Kang, Cheng-Mu Lin</i>
	ID11	Combining BPN and RNN Networks in Deep Learning for Power Load Forecasting and Economic Dispatch Management
		<i>Ming-Lang Yeh, Wen Pei, Wen-Chi Lee</i>
	ID12	Effect Of Injecting Adipose Stem Cells Combined With Platelet-Rich Fibrin Releasate at Shenshu Acupoint(BL23) on Acute Renal Failure in Rabbits
		<i>Hsin-Ni Chuang, Wen Pei, Tzong-Fu Kuo, Chia-Yih Wang, Yen-Wei Chang</i>
	ID15	A relationship between international passengers' media exposure behavior, genres, and intention of media usage: A case study of an international airport in a developing country
		<i>Kanokwan Srikhwan, Kanokkarn Kaewnuch</i>
	ID36	A Survey of Large Language Models in Item-Based Augmentation for Recommendation Systems
		<i>Zachary Yeh, Chris Kuo</i>

Technical Program
Oral Session-Saturday, 24 February 2024

14:40-16:00

Parallel Session 4: Augmented Reality & Virtual Reality (Room: A501)		
14:40 ~ 16:00	Session Chair: <i>Yu-Chen Yeh</i>	
	ID2	Investigating Users' Behavioral Intention toward Virtual Reality 3D Modeling Base on Technology Acceptance Model
		<i>Hsin-Fu Huang, Hsuan Lin</i>
	ID23	Usability Evaluation of Augmented Reality Upper Limb Rehabilitation Training System
		<i>Yang-Kun Ou, Yang-Chen Hsieh</i>
	ID25	Regional Revitalization through Culinary Innovation: The Fusion of Local Empowerment and AR Recipe
		<i>Yu-Chen Yeh, Yu-Cheng Lin, Teng-Yuan Hsiao, Bo-Shen Liou</i>
	ID34	Extended Reality into Objective Structured Clinical Examination (OSCE) with Human Factors Perspective
		<i>Pei-Yi Lin, Eric Kin-Lap Lee, Hsiao-Fan Lin, Kuo-Wei Su</i>
	ID43	Exploring the Effect of Distance Disparity on AR Reading Performance
		<i>Kang-Hung Liu, Cai-Xuan Pan</i>

Parallel Session 5: Robot, Exoskeleton and Artificial Intelligence (Room: A502)		
14:40 ~ 16:00	Session Chair: <i>Chun-Shih Cheng</i>	
	ID3	Effects of Pneumatic Walking Boot on The Ankle Stability and Contact Force of Plantar for Patients with Ankle Fracture
		<i>Wai-Hong Chin, Wei-Hsien Hong</i>
	ID22	Artificial Intelligence Image Recognition Analysis of Keypoint Data and MSE Feature Values in the 30 Seconds Sit-to-Stand Test
		<i>Rou-Rou Shen, Chia-Hsuan Lee, Chien-Hua Huang, Ying-Po Hsu, Tien-Lung Sun</i>
	ID26	Passive Knee Joint Exoskeleton Robot
		<i>Yu-Chen Zheng, Yu-Len Cai, Fu-Hsiang Yang, Hsien-Ru Chu</i>
	ID31	Investigate and Built Entity relationship between Process and Robot Program
		<i>Chun-Shih Cheng, Jia-Hao Lin, En-Qi Xu, Yu-Ta Cheng, Wei-Chun Wu</i>
	ID32	Ride Data to Optimize E-bike Performance from Bike and Environment Data: As Example for Sun Moon Lake
		<i>Chun-Shih Cheng, Hank Chen, Yu-Jie Tsai, Ching-Pei Chang, Yu-Sheng Luo</i>

Parallel Session 6: Multidisciplinary (Room: A503)		
14:40 ~ 16:00	Session Chair: <i>Chia-Chen Kuo</i>	
	ID1	Receiver Operating Characteristic (ROC) Used to Evaluate the Mild Cognitive Impairment
		<i>Cheng-Li Liu, Shiaw-Tsyur Uang</i>
	ID44	Hierarchical Task Analysis of The House Remodeling Process and Root Cause Analysis for the Remodeling Defects
		<i>Chia-Fen Chi</i>

	ID42	The Impact of Time Domain Physiological Signals on Lighting Perception
		<i>Chi-Lun Hung, Chin-Mei Chou</i>
	ID41	The Impact of Wearing Exoskeletons on the Upper Limb Task Performance and Fatigue of Middle-Aged and Elderly Workers
		<i>Chia-Chen Kuo, Hsin - Chieh Wu, Min-Chi Chiu</i>
	ID40	Applying Kansei Engineering to Innovative Mattress Design
		<i>Chao-Yin Wu, Bo-Rong Shi, Li-En Chen, Chia-Chen Kuo</i>

Special Session 2: Sustainability Management (Room: C504)		
14:40 ~ 16:00	Session Chair: <i>Tzu-Kuang Hsu</i>	
	ID17	The Impact of Carbon Dioxide Emissions and Total Fertility Rate on Human Development Index in Taiwan: A Quantile Mediation Analysis
		<i>Tzu - Kuang Hsu, Kun-Hung Pan</i>
	ID19	Integrated Application of Value Engineering in Innovation And Green Building Fields
		<i>Kuei-Hsuan Ho, Ming-Lang Yeh</i>
	ID33	A Study on Service Quality Improvement in Large Department Stores from the Perspective of Co-Operators
		<i>Yu-Jen Chen, Yi-Hsuan Lai, Wen Pei</i>
	ID35	Using Consistent Fuzzy Preference Relationship Analytic Hierarchy Process to Examine the Hazard Analysis Critical Control Point System for Hospital Kitchens
		<i>Tzu-Kuang Hsu, Chih-Yun Kuo, Takuji Makino</i>
	ID37	Exploring Employee Compensation Preferences in the Age of AI and Smart Manufacturing
		<i>Ming-Leng Yeh, Anders Granmo, Alex Ng Hou Hong</i>
	ID39	Key Factors in Implementing Sustainable Environment in Youth Hostels: A Case Study of Jiufen Hostel
		<i>Wen-Ming Tseng, Ming-Lang Yeh</i>