

**2025****The 21st International Conference on Intelligent Information Hiding and Multimedia Signal Processing**

October 15-17, 2025, The Splendor Hotel, Taichung, Taiwan



Conference Program

Day One (Wednesday, October 15, 2025)	
Time	Event
08:45 – 16:00	Registration Hall, 13F (The Splendor Hotel - 金典酒店, Taichung, Taiwan)
09:10 – 10:10	Welcome Session Panel Discussion (Chairperson: Prof. Cheng-Hsiung Hsieh) Theme: AI Applications in Engineering and Higher Education Management Dr. Prof. Tao-Ming Cheng (Chaoyang U. of Technology, Taiwan); Dr. Prof. Tsukahara Tsuneo (U. of Aizu, Japan); Dr. Prof. Goutam Chakraborty (Iwate Prefectural U., Japan); Dr. Prof. James Tze-Jie Yu (DePaul University, USA) The Conference Ballroom, 13F
10:10 – 10:40	Tea/Coffee Break
10:40 – 11:40	Keynote Speech I: Applications and Challenges of Artificial Intelligence in Cybersecurity with focus on Information Hiding Dr. Prof. James Tze-Jie Yu (DePaul University, USA) Speaker Introducer: Prof. Yu-Huei Cheng The Conference Ballroom, 13F
10:40 – 12:20	Regular Session_1 Room A, 14F
	Special Session-06_1 Room B, 14F
12:20 – 13:20	Lunch
13:20 – 15:00	Special Session-05_1 Room A, 14F
	Special Session-06_2 Room B, 14F
	Postor-01 (NSTC Poster): 13:40-14:30 (First Session); 15:10-16:00 (Second Session) The Conference Ballroom, 13F
13:20 – 14:20	NSTC-ETPC Speech: Prof. Chin-Feng Lee The Conference Ballroom, 13F



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15:00 – 15:20	Tea/Coffee Break
15:20 – 17:00	Special Session-04 Room A, 14F
	Special Session-02 / Special Session-03 Room B, 14F
Day Two (Thursday, October 16, 2025)	
Time	Event
08:45 – 16:00	Registration Hall, 13F
09:10 – 10:10	Keynote Speech II: Deep Learning-based Animal Behavior Analysis Distinguished Research Fellow H. Y. Mark Liao (Academia Sinica, Taiwan) Speaker Introducer: Prof. Shih-Hung Wu The Conference Ballroom, 13F
10:10 – 10:40	Tea/Coffee Break
10:40 – 12:20	Special Session-07_1 Room A, 14F
	Special Session-08 / Special Session-09 Room B, 14F
	Special Session-05_2 Room C, 14F
12:20 – 13:20	Lunch
13:20 – 15:00	Special Session-07_2 Room A, 14F
	Regular Session_2 Room B, 14F
	Regular Session_3 Room C, 14F
15:00 – 15:20	Tea/Coffee Break
15:20 – 17:00	Special Session-10_1 Room A, 14F
	Special Session-10_2 / Special Session-11 Room B, 14F
	Special Session-01 / Regular Session-4 Room C, 14F
18:00 – 20:00	Banquet (Entry time: 17:40-18:00) The Conference Ballroom (II+IV), 13F



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Day Three (Friday, October 17, 2025)	
Time	Event (Online meeting –Google and VooV meeting rooms)
09:00 – 11:00	Registration Online
09:00 – 11:00	IIHMSP 2025 Online Section A (Google Meeting: https://meet.google.com/dtt-ezmg-igm)
	IIHMSP 2025 Online Section B (VooV Meeting: https://voovmeeting.com/dm/BjThYORteGmw)
	IIHMSP 2025 Online Section C (VooV Meeting: https://voovmeeting.com/dm/NtCnd2W)
11:00 –	The End of the Conference

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**Day One** (Wednesday, October 15, 2025) (10:40 – 12:20)**Room A: Regular Session_1**

(Session Chair: Prof. Long-Sheng Chen)

Paper ID	Title	Authors	Referred Page
21	Using Grey Polynomial Interpolation in H.265 Under Limited Bandwidth Conditions	Cheng-Hsiung Hsieh; Wei-Cheng Liao; Xin-Rui Lin	p. 1
28	Developing a Table Tennis Skills and Tactics App Using a Multi-Criteria Decision-Making Model	Hsiu-Yuan Yeh; Jia-Pei Lin; Hsin-Lun Hsu; Chi-Yueh Hsu	p. 2
30	A Study on Building a Company-Level Carbon Emission Prediction Model for the Semiconductor Industry	Long-Sheng Chen; Lu-Hsien Hsieh; Yong-Yu Chang; Jing-Rong Chang	p. 3
37	Improving Minority Class Detection in Online Game Review Sentiment Analysis	Long-Sheng Chen; Hsuan-Jung Huang; Thao-Trang Huynh-Cam	p. 4

Room B: Special Session-06_1 (SS-06:Generative AI, Multimedia, and Image Processing)

(Session Chair: Prof. Hung-Cheng Chen)

Paper ID	Title	Authors	Referred Page
43	A Study on Manual Retopology Methods for Enhancing Efficiency and Structural Rationality of 3D Models	Chia-Jen Chang; Cheng-Hao Shao	p. 5
49	Software-Integrated Pipeline for AI-Assisted 3D Head Modeling: A Practical Approach for Virtual Character Design	Chia-Jen Chang; Hsin-Yu Lee; Tzu-Chuen Lu	p. 6
62	Designing the Timeless: Visual Symbolism and Cultural Strategies in Akira Toriyama's Dragon Ball	Jui-Lin Yen; Chia-Jen Chang; Tzu-Chuen Lu	p. 7
78	Digital Wind Sculpture through Cascading Poetic Translation: Cross-media Aesthetic Generation in Multi-Generative AI Collaborative Networks	Hung-Cheng Chen; Ting-Yun Lo	p. 8
99	Revitalizing Cultural Heritage with AI Vibe Coding: The Development of the "Nine-Nine Dispelling Cold Chart" Interactive Webpage	Yu-Hui Lin; Hung-Cheng Chen	p. 9

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**Day One** (Wednesday, October 15, 2025) (13:20 – 15:00)**Room A: Special Session-05_1** (SS-05:AIoT in Biomedicine)

(Session Chair: Prof. Xin Zhu)

Paper ID	Title	Authors	Referred Page
60	Estimating RR Interval of Electrocardiogram from PP Interval of Photoplethysmogram with Autoregressive Moving Average Model for Heart Rate Variability Analysis	Shing-Hong Liu; Yu-Jie Houn; Jia-Jung Wang	p. 10
79	Reduction of Motion Artifacts in the Unilateral Electrocardiogram by Means of Wiener Filters	Jia-Jung Wang; Ioannis Manousakas; Kuen-Cheng Ju; Wei-Yu Tu; Yi-Hsuan Su	p. 11
86	Transfer Learning for Lung Segmentation from Chest X-ray Images: A Comparative Study	Xingjian Tian; Boyuan Peng; Yoshinao Sugai; Xin Zhu	p. 12
105	An Interpretable Real-Time Multimodal AI System for Injury Severity Assessment in Prehospital Settings	Chiun-Li Chin; Hong-Ru Chen; Jin-You Hong; Cheng-En Li; Wei-Chieh Yu; Yu-Li Chou; Jhih-Cian Lin; Rong-Sheng Chen	p. 13
106	EZRead: A Generative AI Approach for Improving Text Readability for Hearing-Impaired Users	Chiun-Li Chin; Jun-ren Chen; Rong-Sheng Chen; Jin-You Hong; Cheng-En Li; Fu-Cheng Tsai; Yi-Wei Chen; Tzu-Hung Yang; Hong-Ru Chen	p. 14

Room B: Special Session-06_02 (SS-06:Generative AI, Multimedia, and Image Processing)

(Session Chair: Prof. Li-Hua Li)

Paper ID	Title	Authors	Referred Page
54	From Curiosity to Concern: Uncovering Insights on Generative AI via Sentiment Analysis	Li-Hua Li; Agus Cahyo Nugroho	p. 15
81	The Impact of Immersive Virtual Reality Combined with an Educational Metaverse Platform on Elementary Students' Engagement in Mathematics	Cheng-Hung Wang; Nien-En Wu; Po-Han Wu; Yi-Chen Li; Li-Wen Lu	p. 16
91	Reversible Data Hiding in the Deep Learning Era: A Review of Techniques and Future Prospects	Anis Ur Rehman; Chin-Feng Lee	p. 17
100	Unlocking Campus Energy Futures: A Comparative Forecasting Using Multivariate LSTM and Univariate SARIMA	Candrarini Trista H.D.; Gracia Adonay E.; Richard G. Mayopu; Radius Tanone	p. 18
166	The Study of a Lightweight Defect Detection Model for The Surface Condition of Solar Panels	Chien-Cheng Pan; Li-Hua Li	p. 19
167	Transfer Learning Based Microbial Colony Classification on the AGAR Dataset under Four Imaging Conditions	Yen-Ting Lin; Li-Hua Li	p. 20



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Room A: Special Session-04 (SS-04:AI-Enhanced QoL: Economics, Affective Computing and Modern Technology)

(Session Chairs: Prof. Naruki Shirahama and Prof. Satoshi Watanabe)

Paper ID	Title	Authors	Referred Page
40	How Users Express Emotions and Purchase Intentions on RED	Lu Jiang; Kodono Yukio	p. 21
41	Text Mining of Negative User Reviews on OfferUp A Sentiment and Topic Modeling Approach	Xiuyi Yue; Yukio Kodono	p. 22
47	Linguistic Characteristics of High- and Low-Liked OOTD (Outfit of the Day) Posts: A Comparative Analysis on Social Media	Yi Lu; Yukio Kodono	p. 23
55	Distribution of Information Skills for Two Groups of Students Based on the Visualization Analysis for Visual Analog Scale Measurements	Satoshi Watanabe; Naofumi Nakaya; Naruki Shirahama	p. 24
59	Characterizing “Emotional Individuality” in 36 LLMs: Persona and Japanese Text Conditioning	Naruki Shirahama; Naofumi Nakaya; Satoshi Watanabe	p. 25
82	COVID-19 Diagnosis Using CT Image Recognition Based on Transfer Learning	Chun-Cheng Peng; Cheng-Yeh Wen; Tsung-Tse Chang; Yu-Chen Liao	p. 26
130	Analysis of Japanese Industry Using the Cobb-Douglas Production Function	Yoshiyuki Yabuuchi	p. 27

Room B: Special Session-02 (SS-02:Generative AI or Artificial Intelligence and Applications) &

Special Session-03 (SS-03:Metaheuristic Algorithms and Applications)

(Session Chair: Prof. Jia-Lang Xu)

Paper ID	Title	Authors	Referred Page
31	A CNN-based Residual Control Chart for Interval Censored Data	Pei-Hsi Lee	p. 28
32	Applying Information Technology Technique to Optimize Real-Time Feedback Systems for Essay Grading	Chiou-Yu Chen; Shieh-Shing Lin	p. 29
34	The Study on Optimizing the Refrigeration and Air Conditioning Installation Level B Certification Process Using Expert System	Ya-Chun Han; Shieh-Shing Lin	p. 30
73	A Study on Automatic Tooth Segmentation in Panoramic Dental Radiographs Using U-Net	Han-Jie Shih; Li-Rong Yang; Geng-Wei Li; Jia-Lang Xu	p. 31
117	Web Application for Supply Chain Management as a Bicycle Material Manufacture Company	Adi Putera Zhou; Chin-Ling Chen; Jia-Lang Xu	p. 32
135	Research and Implementation of Brain Tumor Diagnosis on Deep Learning	Chun-Cheng Peng; Li-Wei Liao; Jia-Xing Wu; Tsung-Tse Chang; Yu-Chen Liao	p. 33
64	Design and Implementation of Gesture Recognition Based on YOLO Neural Network	Jason Chen; M. Abdul; Chingmai Ko	p. 34
126	Dual-guiding Adaptive Multi-strategy Animated Oat Optimization Algorithm (DAOA)	Jeng-Shyang Pan; Peng-Yu Duan; Shu-Chuan Chu; Qing-Wei Chai; Yan Bin	p. 35
127	Multi-Strategy based Artificial Protozoa Optimizer	Jeng-Shyang Pan; He Wei; Ru-Hai You; Xiao-Min Liu; Min Liu	p. 36

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**Day Two** (Thursday, October 16, 2025) (10:40 – 12:20)**Room A: Special Session-07_1** (SS-07:Pattern Recognition and Feature Learning in Complex Visual Data)

(Session Chair: Prof. Yung-Chen Chou)

Paper ID	Title	Authors	Referred Page
33	Reconstruction Segmenting Region Technique for Adversarial Patch Defense	Elvin Nur Furqon; Isack Farady; Junaidul Islam; Chih-Yang Lin	p. 37
36	Real-Time Detection of Lane-Change Violations in Vehicles via YOLOv8	Shao-Kuo Tai; Pin-You Chen; Wei-Ru Lin	p. 38
52	Image-Based Porosity Analysis of Acoustic Mesh Structures Using Advanced Digital Image Processing Techniques	Xiang-Shun Yang; Rou-Syuan Jiang; Wei-Wei Huang; Chu-Ya Chuang; Xuan-Yi Huang; Yu-Cheng Liu; Yung-Chen Chou	p. 39
107	A Data-Driven Approach to Total Organic Carbon Prediction in Mangrove Sediments Using FTIR and 1D-CNN	Yung-Chen Chou; Po-Sung Chen; Cheng-Hsien Lin; Ning-Hsiang Hsu; Kuo-Yen Wei; Li Lo	p. 40
110	U-Net Based Semantic Segmentation for Pore Detection in Nonwoven Mesh Structures Applied to Electroacoustic Device Design	Ching-Yi Pang; Po-Sung Chen; Xiao-Zhu Wang; Xuan-Yi Huang; Chu-Ya Chuang; Yu-Cheng Liu; Yung-Chen Chou	p. 41

Room B: Special Session-08 (SS-08:Using Multimodal AI for Various Data Sources in Smart Applications)

& Special Session-09 (SS-09:Wireless Network and Intelligence Computing)

(Session Chair: Prof. Chao-Yang Lee)

Paper ID	Title	Authors	Referred Page
104	Finetuning BERT & RoBERTa for Office Documents Classification System	Su-Wen Huang; Ping-Han Chang; Lai-Shiun Lai; Rung-Ching Chen	p. 42
120	Smart Detection of Open Parking Spaces in Urban Taiwan Using YOLOv8 Segmentation on Dashcam Footage	Muhammad Ehsan; Rung-Ching Chen	p. 43
125	Deepfake Detection Based on Multimodal Feature Fusion	Tzung-Pei Hong; Haohsuan Chien; Ja-Hwung Su; Wei-Chou Chen; Shu-Min Li	p. 44
61	Intrusion Detection System Based on Horizontal Federated Learning for Non-Terrestrial Networks	Chao-Yang Lee; Ching-Wei Lin; Chun-Hung Lin	p. 45
92	An AI-Based Two-Stage Ensemble Framework for Efficient IoT Traffic Anomaly Detection	Chung-Wei Kuo; Cheng-Xuan Wu	p. 46
96	MARL-based AoI and Energy Optimization in Multi-RSU C-V2X Networks	Yong-Sheng Lin; Chuan-Chi Lai	p. 47
103	5G UAV Real-Time AQI Smart Monitoring Platform	Feng-Cheng Tsai; Chen-Hao Li; Ang-Hsun Tsai; Chao-Yang Lee	p. 48

Room C: Special Session-05_2 (SS-05:AIoT in Biomedicine)

(Session Chair: Prof. I-Fang Chung)

Paper ID	Title	Authors	Referred Page
65	Design of High Frequency Wireless and Wearable Functional Near-Infrared Spectroscopy Module	Yen-Po Huang; Chien-An Chen; Jia-Jin Chen	p. 49
70	Predicting Prolonged Opioid Use After Total Joint Arthroplasty Using Machine Learning: An Electronic Medical Record-Based Study	Meng-Shui Lu; I-Fang Chung	p. 50
74	Development of a Plantar Pressure Wearable with Machine Learning for Muscle Fatigue Detection	Andrew Jonathan Hadikusuma; Xiao-Fan Lin; Fu-Yu Beverly Chen	p. 51
75	Aligning Cell-Line and Patient Data with Interpretable Transformers for Drug Prediction	Chi-Tang Wang; Yu-Kai Chiu; I-Fang Chung	p. 52
76	Semi-supervised Learning for Renal Pathology Image Segmentation	Chieh-Yu Li; I-Fang Chung	p. 53



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Room A: Special Session-07_2 (SS-07:Pattern Recognition and Feature Learning in Complex Visual Data)

(Session Chair: Prof. Jia-Lang Xu)

Paper ID	Title	Authors	Referred Page
39	Evaluation of the Effectiveness of AI-Based Motion Interaction Games in Marine Culture Education	Wen-Chuan Wu; Yu-Wei Zhang; Yi-Chen Lin	p. 54
46	A Modular Retrieval-Augmented Generation Framework for Factual Question Answering Domain-Specific Time-Series Data	Ankh-Erdene Ganbat; Tzu-Chuen Lu; Ming-Hsuan Wu	p. 55
57	Automated Semantic Segmentation and Quantitative Analysis of Pore Structures in PEO Coatings Using a Modified U-Net Framework	Ning-Hsiang Hsu; Po-Sung Chen; Xiang-Shun Yang; Chen-Jui Liang	p. 56
67	Medical Image Authentication for Telemedicine Applications using Grouping and Self-reference Strategies	Chia-Chen Lin; Er Tai Zhuo; En-Ting Chur	p. 57
108	A Physician-Assisted Interpretation System for Automatic Classification of Delayed Intracranial Hemorrhage Using Fuzzy AlexNet	Ming-Chi Wu; Chiun-Li Chin; Cheng-En Li; Rong-Sheng Chen; Hong-Ru Chen; Jin-You Hong	p. 58
113	Intelligent Fabric Defect Detection Research Based on the YOLOv8 Model	Chun-Hsiu Yeh; Xuan Wang; Xian-Zhong Lin; Yi-Teng Lin; Chin-Wei Liao; Wei-Cheng Shen; Jong-Shin Chen	p. 59

Room B: Regular Session_2

(Session Chair: Prof. Zi Yi Lim)

Paper ID	Title	Authors	Referred Page
38	Development of a Neural Network-Based Model for Predicting the Steady-State Characteristics of a Pd HfO ₂ /GaOx/GaN Hydrogen Gas Sensor	Kun-Wei Lin; Hsuan-Jung Shih; Jia-Wei Li	p. 60
44	Analyzing a Serious Game for Livestock Wastewater Treatment Using the Technology Acceptance Model (TAM)	Tzu-Chuen Lu; Ci-Jia Huang	p. 61
71	Applying Curved Price Channels to Improve Automated Detection of Consolidation Phases	Shih-Yun Yen; Hung-Yu Chien	p. 62
84	Monkeypox Identification Based on Transfer Learning	Chun-Cheng Peng; Yue-Han Chen; Xiang-Wei Hu; Mau-Shiun Tang; Jia-Xing Wu; Tsung-Tse Chang	p. 63
85	Deep Learning-Based Diabetic Retinopathy Detection	Chun-Cheng Peng; Cheng-Hui Teng; Hsun-Ming Chung; Yi-Pin Liu; Tang-Jung Ke; Li-Wei Liao	p. 64

Room C: Regular Session_3

(Session Chair: Prof. Chun-Cheng Peng)

Paper ID	Title	Authors	Referred Page
88	Optimized Deep Learning Model for Prostate Cancer Detection	Chun-Cheng Peng; Yu-Chen Liao; Xiang-Wei Hu; Yuen-Han Chen; Hsun-Ming Chung; Yi-Pin Liu	p. 65
98	AI-Powered Product Code Generation and ERP Integration Platform for Industry-wide Application	Shih-Lung Liao; Yu-Ting Kuo; Shao-Kuo Tai; Pei-Hsi Lee	p. 66
102	Monocular 3D Volleyball Trajectory via Geometric Constraints	Tzu-Yun Hu; Jenn-Jier James Lien	p. 67
109	Interactive Intent Clarification Framework for Data Analysis Using Generative AI	Riku Takano; Rentaro Yoshioka; Takayuki Hoshino; Yukihide Kohira	p. 68
114	Development of Human Detection System Using Thermography with Convolutional Neural Network in Smart Museum	Kazuki Maetsubo; Shingo Tetsuka; Takaharu Kasayuki; Yukihide Kohira; Rentaro Yoshioka	p. 69

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**Day Two** (Thursday, October 16, 2025) (15:20 – 17:00)**Room A: Special Session-10_1** (SS-10:AIoT Convergence: Intelligent Integration of Artificial Intelligence and Internet of Things for Smart Environments)
(Session Chair: Prof. Yu-Huei Cheng)

Paper ID	Title	Authors	Referred Page
97	Design and Implementation of an Energy-Efficient IoT-Based Health Monitoring System with Cloud Integration	Ming-Cheng Kao; Jun-Rong Ye; Tzu-Hao Chang; Chen-Chien Shieh	p. 70
121	Comparative Analysis of Techniques and Tools for Image Steganography and Steganalysis	Elbert Timothy Thomas; MengLun Hsueh	p. 71
129	TOGAF as a Unifying Framework for Agricultural Digitalization	Kalaiaarasi Sonai Muthu Anbananthen; Saravanan Muthaiyah; Baarathi Balasubramaniam; Jayakumar Krishnan; Thein Oak Kyaw Zaw; Suraya Mohammad; Yunus Yusoff; Khairul Shafee Kalid	p. 72
131	Construction and Analysis of a Student Dropout Prediction Model Using AutoGluon with Imbalanced Data Handling Techniques	Yu-Huei Cheng; Che-En Lin	p. 73

Room B: Special Session-10_2 (SS-10:AIoT Convergence: Intelligent Integration of Artificial Intelligence and Internet of Things for Smart Environments) &
Special Session-11 (SS-11:Applications of Intelligent Internet of Things And Communications)
(Session Chair: Prof. Zi Yi Lim)

Paper ID	Title	Authors	Referred Page
51	Easy Upgrade to Smart Elevator with An AIoT Device	Zi Yi Lim; Shih-Wei Ciou; Chang-Hong Lai; Yu-Zhang Luo; Chien-Chia Huang	p.74
77	EMG-Based Gesture Recognition Using Deep Learning for Autonomous Vehicle Control	Yu-Yong Luo; Yan-Ru Lin; Chia-Hsin Cheng; Yung-Fa Huang	p. 75
89	A Self-Timed Bi-Directional Torus Network	Chia-Cheng Tsai; Wei-Min Cheng; Yuan-Teng Chang; Yung-Fa Huang; Hung-Yue Tsai; Chang-Jiu Chen; Yu-Hsang Wu	p. 76
90	Efficient KNN Classification for High-Density Geospatial Data Using Grid-Based Partitioning	Cheng-Ying Yang; Ruo-Wei Hung; Chun-Ming Kuo; Jong-Shin Chen	p. 77
95	A Highly Convenient Smart Parking Information System Utilizes the ALPR Method Based on IoT Technology	Yung-Ping Tu; Kai-Hung Hsieh; Shao-Chi Hsu; Yung-Fa Huang; Feng-Li Lin	p. 78
116	A Monocular Defocus Depth Estimation Algorithm Combining AI-Based Image Segmentation and Physical Optics	Ing-Chau Chang; Yu-Cheng Chen; Yu-Sen Wang; Chunhui Kuo; Chin-En Yen	p. 79

Room C: Regular Session_4 & Special Session-01 (SS-01:Graph Algorithms and Applications)
(Session Chair: Prof. Ruo-Wei Hung)

Paper ID	Title	Authors	Referred Page
119	A Natural Language-driven Humanoid Robot Motion Encoding Method Based on LLaMA-3-8B	Zhi-Zhong Chen; Shih-Hung Wu	p. 80
123	Adaptive Contention Preamble with Differentiating Contention Domains for Minimizing Collisions and Delay in 5G-Advanced Cellular Networking	Ben-Jye Chang; Ying-Hsin Liang; Ruo-Wei Hung; De-Yu Wang	p. 81
124	Purifying Adversarial Faces: A Cold Diffusion Framework for Black-Box Defense	Pei-Hsin Hsieh; Pei-Chi Bao; Alex Carlos Ack; Le Nguyen Hoang My Dinh; Wen-Chieh Fang	p. 82
22	The 2-Fair Domination in Planar and Extended Supergrid Graphs	Ruo-Wei Hung; Jong-Shin Chen; An-Yu Hsiao	p. 83
48	Application of Heatmap Analysis Using Convolutional Neural Networks for Low-Concentration Ammonia Gas Sensing	Kun-Wei Lin; Yuan-Yi Hung; Zheng-Han Jiang; Meng-Huan Hsieh; Cheng-Hsiung Hsieh	p. 84

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**Day Three** (Friday, October 17, 2025) (09:00 – 11:00)**IIHMSP 2025 Online Section A:****Time: 9:00 – 11:00 AM (Taipei Time, UTC+8)****Room: Google Meeting ID: <https://meet.google.com/dtt-ezmg-igm>**

(Session Chair: Prof. Yoshiyuki Matsumoto)

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45	Topic Model Analysis of Inbound Demand Collected from Social Media	Yoshiyuki Matsumoto	p. 85
56	Threat Detection Using Multimodal Fusion and Timestamp Alignment	Zong-Bin Hsiao; Peter Shaojui Wang	p. 86
115	Diversity, Cognition, and Collaboration in BEV R&D Teams: A Survival Analysis of Patent Citation Lag	Iori Nakaoka; Yousin Park; Yunju Chen	p. 87
118	Modern Deep Learning Approaches for Omics-to-Image Survival Prediction: An Improved SurvCNN Framework	Huyen Ngoc Nguyen; Hanh Nguyen Van	p. 88
101	An Integrated M-N-S-QUAL Model for Predicting Customer Loyalty in Mobile Telecom: A Construal and Involvement Perspective	Yi-Wen Liao; Siang-Jyu Yuan; Chuan-Sheng Lin	p. 89
112	Design Thinking–Driven Development of “ImWatchingYou”: An OMO Smart Learning Environment Platform Integrating AI-Based Visual and Emotion Recognition for Real-Time Teaching Interaction	Yi-Wen Liao; Hung Jui Su; Chuan-Sheng Lin	p. 90

IIHMSP 2025 Online Section B:**Time: 9:00 – 10:00 AM (Taipei Time, UTC+8)****Room: VooV Meeting ID: <https://voovmeeting.com/dm/BjThYORteGmw>**

(Session Chair: Prof. Shu-Chuan Chu)

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29	Task-Driven In-Field Hardware-in-the-Loop Accelerated Testing and Evaluation Method	Chenxuan Li; Yuanyuan Sheng; Jiashu Yang; Huanyu Liu; Junbao Li	p. 91
68	A Parallel Football Team Training Algorithm with Multiple Communication Strategies	Shu-Chuan Chu; Libin Fu; Jeng-Shyang Pan	p. 92
69	RLMALO: Reinforcement Learning-Enhanced Martial Art Learning Optimization for Night Image Enhancement	Jeng-Shyang Pan; Zi-Zheng Zhang; Shu-Chuan Chu; Ying-Ying Wang; Kevin Huang	p. 93

IIHMSP 2025 Online Section C:**Time: 10:00 – 11:00 AM (Taipei Time, UTC+8)****Room: VooV Meeting ID: <https://voovmeeting.com/dm/NtCnd2W>**

(Session Chair: Prof. Shu-Chuan Chu)

Paper ID	Title	Authors	Referred Page
72	Chaotic-Elite Enhanced Animated Oat Optimization algorithm	Jeng-Shyang Pan; Li-Yuan Zhang; Shu-Chuan Chu; Qing-Wei Liang; Qing-Wei Chai	p. 94
94	FinTechX: A Comprehensive AI-Powered Financial System	Tianlin Fu; Fuquan Zhang; Lei Liu; Xianfang Luo	p. 95
128	A Robust Federated Learning Approach for Noisy Labels based on Sharpening and Self-distillation	Zhengnan Xie; Jiahui Chen; Chunshen Ye	p. 96

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