

# **2024 IEEE International Conference on Systems, Man, and Cybernetics (SMC 2024)**

**Kuching, Malaysia  
6-10 October 2024**

**Pages 1-658**



**IEEE Catalog Number: CFP24SMC-POD  
ISBN: 978-1-6654-1021-2**

**Copyright © 2024 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

|                         |                   |
|-------------------------|-------------------|
| IEEE Catalog Number:    | CFP24SMC-POD      |
| ISBN (Print-On-Demand): | 978-1-6654-1021-2 |
| ISBN (Online):          | 978-1-6654-1020-5 |

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

## TABLE OF CONTENTS

|  |     |
|--|-----|
| An Explainable Machine Learning Approach for Heartbeat Classification Through Signal-Based Features .....                      | 1   |
| <i>Paolo Sorino, Gianluca Colonna, Domenico Lofù, Tommaso Colafoglio, Angela Lombardi, Fedelucio Narducci, Tommaso Di Noia</i> |     |
| LDD-YOLO: An Improved Lightweight Detection Method for Steel Surface Defects Based on YOLOv8.....                              | 7   |
| <i>Yuechen Zhang, Aimin Li, Zhiyao Li, Xiaotong Kong, Wenqiang Li</i>  |     |
| Smartphone-Based Structural Health Monitoring with Neural Network Regression for Damage & Detection .....                      | 14  |
| <i>Xiaoou Li, Yingqin Zhu, Wen Yu</i>  |     |
| Dynamic Event-Triggered Distributed MPC for UAV-UGV Systems Against DoS Attacks on Communication Channels .....                | 20  |
| <i>Hui Tang, Yong Chen</i>   |     |
| CSFIR: Leveraging Code-Specific Features to Augment Information Retrieval in Low-Resource Code Datasets.....                   | 26  |
| <i>Zhenyu Tong, Chenxi Luo, Tiejian Luo</i>  |     |
| Adaptive Fusion of Global Information for Position Aware Multi-Interest Sequential Recommendation.....                         | 33  |
| <i>Tianhao Sun, Jiayi Mal, Yanke Chen, Yunhao Mal, Quanwang Wu</i>   |     |
| FedHiDiC: High-Dimensional Heterogeneous Data Condensation and Distillation Contrastive Learning in Federated Learning .....   | 39  |
| <i>Ming Jiang, Yun Li, Feng Zhang, Biao Guo, Ping Qin, Shuo Zhang, Yao Lu</i>  |     |
| Encryption and Decryption of Communication Systems Using the CMAC-Based Chaotic System Synchronization Technique .....         | 51  |
| <i>Hung-Chan Wang, Chih-Min Lin</i>  |     |
| Model Predictive Geofencing for Vehicle Containment.....   | 65  |
| <i>Samuel Thorén, Lukas Wikander, Victor Jarlow, Timo Kero</i>   |     |
| Optimal Operator-Based Modeling for Open Circuit Voltage Hysteresis of LiFePO <sub>4</sub> Batteries .....                     | 71  |
| <i>Lisen Yan, Jun Peng, Yue Wu, Zeyu Zhu, Heng Li, Zhiwu Huang</i>   |     |
| Information Security Evaluation by Information Flow Analysis Based on Stochastic Petri Nets .....                              | 82  |
| <i>Hanqian Tu, Dongming Xiang, Wang Lin, Guanjun Liu</i>   |     |
| A Study on the Scenario Design Method for National Decision-Making Behavior in International Conflicts .....                   | 89  |
| <i>Bo Li, Yangxiaoyu Yang, Feng Yao, Fang Tang, Mengxuan Wen, Renqi Zhu</i>  |     |
| Formation and Containment Fuzzy Control Via Interval Type-2 Approach for Multiple Autonomous Ships with Complex Noises.....    | 97  |
| <i>Yann-Horng Lin, Yi-Chen Lee, Wen-Jer Chang, Cheung-Chieh Ku, Chein-Chung Sun</i>  |     |
| Interpretable DRL-Based Maneuver Decision of UCAV Dogfight .....   | 109 |
| <i>Haoran Han, Jian Cheng, Maolong Lv</i>  |     |

|  |     |
|--|-----|
| Mining Temporal Association Rules for Multivariate Time Series Classification Problems with Both Discrete and Continuous Values Based on Shapelets .....                   | 115 |
| <i>Guohui Ding, Zhaoyi Yuan, Wenjing Tang, Chao Jiang, Qingyang Jiao</i>   |     |
| LB-VTON: Lower-Body Virtual Try-On Via Differential Constraints and Adversarial Training Strategies .....  | 121 |
| <i>Chunyu Rong, Yi Li</i>  |     |
| Innovative Initialization Scheme for Multi-Objective Feature Selection in Continuous Search Spaces.....  | 128 |
| <i>Parastoo Dehnad, Azam Asilian Bidgoli, Shahryar Rahnamayan</i>  |     |
| Port AGV Hierarchical Formation Control Considering High-Frequency Disturbance Factors .....   | 136 |
| <i>Qiang Zhang, Wen-Feng Li, Xiao-Hang Qi</i>  |     |
| Perturbing and Backtracking Based Textual Adversarial Attack .....   | 142 |
| <i>Yuanxin Qiao, Ruilin Xie, Songcheng Xie, Zhanqi Cui</i>   |     |
| Faster and More Efficient Subject Image Generation for Text-To-Image Diffusion Models .....  | 148 |
| <i>Bihui Yu, Zhengbing Yao, Jingxuan Wei, Linzhuang Sun, Sibao Zhang, Liping Bu</i>  |     |
| Multi-Agent Reinforcement Learning-Based UAV Swarm Confrontation: Integrating QMIX Algorithm with Artificial Potential Field Method .....                                  | 161 |
| <i>Chao Zhang, Zhangyan Wu, Zhaoxin Li, Hao Xu, Zhihao Xue, Rongrong Qian</i>  |     |
| How Collective Intelligence Emerges in a Crowd of People Through Learned Division of Labor: A Case Study.....  | 167 |
| <i>Dekun Wang, Hongwei Zhang</i>   |     |
| Integrating Task Allocation and Hierarchical Reinforcement Learning for Optimized Cargo Transport Routing.....   | 173 |
| <i>Tomohiro Hayashida, Shinya Sekizaki, Ryuya Furukawa, Ichiro Nishizaki</i>   |     |
| Improved Event-Triggered Approximate Optimal Control for Nonlinear Nonzero-Sum Games Using Reinforcement Learning .....  | 179 |
| <i>Pengda Liu, Huiyan Zhang, Peng Shi, Imre Rudas</i>  |     |
| Cloud-Model-Improved Transformer for Robust Load Prediction of Power Network Clusters .....  | 185 |
| <i>Cheng Jiang, Gang Lu, Xue Ma, Di Wu</i>   |     |
| A Novel Extended-Kalman-Filter-Incorporated Latent Feature Model on Dynamic Weighted Directed Graphs.....  | 191 |
| <i>Hongxun Zhou, Xiangyu Chen, Ye Yuan</i>   |     |
| Energy-Optimized Offloading of Delay-Sensitive Tasks in Hybrid Edge-Cloud Computing .....  | 197 |
| <i>Haitao Yuan, Shen Wang, Yaofei Ma, Jing Bi, Jinhong Yang, Jia Zhang, Mengchu Zhou</i>   |     |
| Multilayer Topological Clustering for Human Motion Segmentation .....  | 203 |
| <i>T. Obo, K. Hamada, T. Matsuda, N. Kubota</i>  |     |
| Large Language Model Implemented Simulated Annealing Algorithm for Traveling Salesman Problem .....  | 209 |
| <i>Debing Wang, Zizhen Zhang, Yi Teng</i>  |     |
| Perspectives-Observer-Transparency – a Novel Paradigm for Modelling the Human in Human-To-Anything Interaction Based on a Structured Review of the Human Digital Twin..... | 215 |
| <i>Nils Mandischer, Alexander Atanasyan, Michael Schluse, Jürgen Roßmann, Lars Mikelsons</i>   |     |

|  |     |
|--|-----|
| An Immersive Mirror-Reversal Interface for Teleoperated Bring-Me Task Using a Mobile Manipulator .....   | 223 |
| <i>Keiichi Ono, Akishige Yuguchi, Yoshio Matsumoto</i>   |     |
| Dynamic Hand Gesture Recognition for Robot Manipulator Tasks .....   | 229 |
| <i>Dharmendra Sharma, Peeyush Thakur, Sandeep Gupta, Narendra Kumar Dhar, Laxmidhar Behera</i>   |     |
| DPCA: Dynamic Probability Calibration Algorithm in LMaaS .....   | 235 |
| <i>Zhongyi Deng, C. L. Philip Chen, Tong Zhang</i>   |     |
| Multiscale Feature Extraction and Attention Mechanism Generative Adversarial Network for Super-Resolution and Deblurring of Fundus Images..... | 241 |
| <i>Hualing Sha, Guopeng Zhou, Jianquan Zhang</i>   |     |
| Enhancing on-Device Inference Security Through TEE-Integrated Dual-Network Architecture .....  | 247 |
| <i>Zhenyu Zhu, Zhihao Qu, Ninghui Jia, Wenxuan Zhou, Baoliu Ye</i>   |     |
| Real-Time Smoke Detection Network Based on Multi-Scale Feature Recognition and Lightweight Architecture Design.....                            | 262 |
| <i>Ganggang Li, Yongming Li, Shaochen Jiang</i>  |     |
| Immobility Recognition System in Tail Suspension Test Using Single Camera and Deep Learning.....   | 268 |
| <i>H. Oikawa, D. Kobayashi, M. Yamamoto, A. Hagiwara, H. Takemura</i>  |     |
| Tele-Running: Trajectory Generation for Monopod Robots by Teleoperation .....  | 273 |
| <i>David Wandinger, Annika Schmidt, Antonin Raffin, Alin Albu-Schäffer, Manuel Keppeler</i>  |     |
| Functional 3D-Printed Finger Prosthesis with Compliant Fingertips for Support of iADLs.....  | 279 |
| <i>Lankha Wallace, Modar Hassan, Yukiyo Shimizu, Akira Kikuchi, Kenji Suzuki</i>   |     |
| Path Tracking Algorithm for Mobile Robot Based on Learning-Based Nonlinear Model Predictive Control.....                                       | 285 |
| <i>Po-Yuan Cheng, Yu-Jie Chen, Kuang-Yow Lian</i>  |     |
| Balancing Energy Production and Drought Protection in Prosumer Hydropower Networks Under Intense Vaporization .....                            | 291 |
| <i>Przemyslaw Ignaciuk, Michal Morawski</i>  |     |
| Self-Optimizing Control of Stochastic Systems .....  | 297 |
| <i>Hongxin Su, Chenchen Zhou, Yi Cao, Xuefeng Zhang, Shuang-Hua Yang</i>   |     |
| Adaptive Backstepping Integral Sliding Mode Control of Multirotor UAV System Used for Smart Agriculture.....                                   | 303 |
| <i>Yuhao Shi, Salman Ijaz, Zenan He, Zhiyi Xu, Umair Javaid, Yu Xia</i>  |     |
| A Multi-QoS-Constrained Routing Algorithm for Double-Layer Satellite Networks Based on Enhanced NSGA-II Algorithm .....                        | 309 |
| <i>Song Yu, Ning Hao, Jun Long, Limin Liu</i>  |     |
| Anatomy-Aware Enhancement and Cross-Modal Disease Representation Fusion for Medical Report Generation .....                                    | 315 |
| <i>Jianbin Chen, Kai Yang, Runfeng Lin, Yating Wang, Dacheng Xu, Meng Zhang, Shouqiang Liu</i>   |     |
| Human Multi-Dimensional Stiffness Skills Transfer for Robot Teleoperation System.....  | 321 |
| <i>Liwen Situ, Zhenyu Lu, Weiyong Si, Chenguang Yang</i>   |     |

|  |     |
|--|-----|
| Dynamic Spatial Feature Enhancement for Local Climate Zone Classification in SAR and Multi-Spectral Data .....                           | 328 |
| <i>Yilin Zheng, Shiyong Lan, Yao Li, Wei Ma, Guonan Deng</i>   |     |
| Vrefine: A Self-Refinement Approach for Enhanced Clarity and Quality in Text-To-Speech Models.....                                       | 336 |
| <i>Dongjin Huang, Yuhua Liu, Jixu Qian, Yanli Wang</i>   |     |
| Closed-Loop Predictive Control for Adaptive Optics Via Neural Networks.....  | 342 |
| <i>Haining Hu, Qianchong Sun, Yuchen Hua, Jie Tan, Xiaoguang Ren, Rongkai Zhang, Xin Liu</i>   |     |
| A Cognitive Inertia Sequence Model for Opinion Formation in Group Decision-Making Systems .....  | 348 |
| <i>Jianglin Dong, Haixia Mao, Yiyi Zhao, Yuan Peng, Junyi Yang, Jiangping Hu</i>   |     |
| Enhancing Location Privacy Through Prioritized Experience Replay in Deep Q-Networks .....  | 354 |
| <i>Manish Pandey, Harkeerat Kaur, Isao Echizen</i>   |     |
| A Tube Model Predictive Control Approach for Virtually Coupled Train Set with Nonlinear Relative-Braking Distance.....                   | 361 |
| <i>Xiaobin Pu, Liqun Fan, Qiusheng Liu, Xiaolin Luo, Qingdong Jia, Kaixuan Li, Kun Zhang, Hongjie Liu</i>                                |     |
| Introduction of Weighted Local Response Normalization in VOneNets for Improved Robustness Against Adversarial Examples.....              | 367 |
| <i>Ryuta Miyazawa, Motonobu Hattori</i>  |     |
| A Discrete Diffusion-Based Approach for Solving Multi-Objective Traveling Salesman Problem .....   | 374 |
| <i>Dawei Su, Zizhen Zhang, Jinbiao Chen, Zhanhong Fang</i>   |     |
| A Progressive Soft Erase and Multi-Scale Feature Fusion Method for Medical Education Management of Breast Cancer .....                   | 380 |
| <i>Yiming Liu, Jianqiang Li, Xiaoling Liu, Xi Xu, Shujie Ding, Linna Zhao, Zhaolei Liu</i>   |     |
| Surrogate-Assisted Multi-Class Collaborative Teaching and Learning Optimizer for High-Dimensional Industrial Optimization Problems ..... | 386 |
| <i>Jing Bi, Ziqi Wang, Haitao Yuan, Jinhong Yang, Jia Zhang</i>  |     |
| Optimization Analysis of Bus Operation Scheduling Considering Passenger and Cargo Sharing Under Uncertain Demand.....                    | 392 |
| <i>Jiacheng Li, Masato Noto, Yang Zhang</i>  |     |
| A Neurobehavioral Evaluation of the Efficacy of 1mA Longitudinal, Anodal TDCS on Multitasking and Transfer Performance.....              | 398 |
| <i>Akash K Rao, Shashank Uttrani, Darshil Shah, Vishnu K Menon, Arnav Bhavsar, Shubhajit Roy Chowdhury, Ramsingh Negi, Varun Dutt</i>    |     |
| Examining the Impact of Delay on Tele-Robotic Surgical Operability Through Brain Activity Evaluation.....                                | 404 |
| <i>Junnosuke Ichihara, Satoshi Miura</i>   |     |
| GazeRace: Revolutionizing Remote Piloting with Eye-Gaze Control .....  | 410 |
| <i>Issatay Tokmurziyev, Valerii Serpiva, Aleksey Fedoseev, Miguel Altamirano Cabrera, Dzmitry Tsetserukou</i>                            |     |
| Haptic Shared Control by Adjusting the Stiffness of a Joystick Based on Sensor Systems Reliability for Underwater Vehicles .....         | 416 |
| <i>Kenshin Fujie, Yasuaki Orita, Eito Sato, Norimitsu Sakagami, Takahiro Wada</i>  |     |

|  |     |
|--|-----|
| Mixformer: Feature Mixed Transformer for Rainfall Forecasting.....   | 430 |
| <i>Yuanyuan Liao, Boyuan Li, Xiuhong Li</i>  |     |
| Remaining Useful Life Prediction of Lithium-Ion Batteries Using Lag-Llama Model with Auto-Correlation Analysis .....   | 437 |
| <i>Heng Li, Zeyu Zhu, Xiaolong Chen, Yunsheng Fan, Lishen Yan, Weirong Liu</i>   |     |
| ECFO: An Efficient Edge Classification-Based Fusion Optimizer for Deep Learning Compilers .....  | 443 |
| <i>Wei Li, Pengcheng Wang, Yutong Wu, Kangcheng Liu, Lide Xue, Zidong Du, Xishan Zhang, Xuehai Zhou</i>  |     |
| TokenFree: A Tokenization-Free Generative Linguistic Steganographic Approach with Enhanced Imperceptibility .....  | 449 |
| <i>Ruiyi Yan, Tian Song, Yating Yang</i>   |     |
| A Multi-Level Contrastive Learning Framework for Knowledge Graph-Based Recommendation Systems.....   | 456 |
| <i>Tianhao Sun, Xiaodong Zhang, Yanke Chen, Huhai Zou, Quanwang Wu</i>   |     |
| Using Explainable AI for EEG-Based Reduced Montage Neonatal Seizure Detection .....  | 463 |
| <i>Dinuka Sandun Udayantha, Kavindu Weerasinghe, Nima Wickramasinghe, Akila Abeyratne, Kithmin Wickremasinghe, Jithangi Wanigasinghe, Anjula De Silva, Chamira U. S. Edussooriya</i> |     |
| Multi-Granularity Temporal-Spectral Representation Learning for Speech Emotion Recognition.....  | 469 |
| <i>Zhichen Yuan, C. L. Philip Chen, Shuzhen Li, Tong Zhang</i>   |     |
| Emohance: Real-Time Emotional Amplification in Gaming Via Physiological Vibratory Feedback .....   | 475 |
| <i>Yuki Kosuge, Shogo Okamoto</i>  |     |
| Study on the Influence of Embodied Avatars on Gait Parameters in Virtual Environments and Real World.....  | 481 |
| <i>Tianyi Zhou, Ding Ding, Shengyu Wang, Chuhan Shi, Xiangyu Xu</i>  |     |
| Saving the Elf: Immersive VR Experience Utilizing Multiple Relaxing Approaches .....   | 488 |
| <i>Cheng Nie, Ding Ding, Jinhao Wu, Xu Yang, Ronghuang Ou, Wei Du</i>  |     |
| Enhancing Marine Navigation Performance Using the Head-Up Interface.....   | 496 |
| <i>Avinash Singh, Jinhao Zhou, Chin-Teng Lin, Sara Lal, Ami Eidels, Xiaowei Jiang, Scott Brown</i>   |     |
| Time-Probability Dependent Knowledge Extraction in IoT-Enabled Smart Building.....   | 503 |
| <i>Hangli Ge, Hirotsugu Seike, Noboru Koshizuka</i>  |     |
| A Target Trajectory Prediction Method in Air Combat Based on Wavelet-Attention-GRU Under the Frenet Frame.....   | 509 |
| <i>An Zhang, Zeming Mao, Haiyu Xu, Qiucen Fan, Wenhao Bi, Yuwen Yan</i>  |     |
| Research on Integrated Elderly Care Service Supply Strategy Under Competitive Subsidy Mechanism .....  | 515 |
| <i>Jing Zhao, Zhaoxiang Lou, Chuanxu Liu, Raied Al Anwar</i>   |     |
| DEA Malmquist Research on Efficiency of Agricultural Infrastructure in Bangladesh .....  | 521 |
| <i>Jing Zhao, Raied Al Anwar, Zhaoxiang Lou, Chuanxu Liu, Yingjie Hou</i>  |     |

|  |     |
|--|-----|
| Recurrent Polynomial-Based FBLS for Adaptive Predictive PID Control of Nonlinear Discrete-Time Systems: Comparative Studies on Control Performance and Time Complexity ..... | 541 |
| <i>Ali Rospawan, Ching-Chih Tsai</i>   |     |
| Latent Factor Analysis Enhanced Graph Contrastive Learning for Recommendation .....  | 547 |
| <i>Junfeng Long, Hao Wu</i>  |     |
| SRE-KGC : A Knowledge Graph Completion Model Based on Hidden Graph Structure and Relational Semantic Enhancement .....   | 553 |
| <i>Sijun Lu, Guoyan Xu, Shuangyang Sun</i>   |     |
| Multimodal Fake News Detection Based on Chain-Of-Thought Prompting Large Language Models .....   | 559 |
| <i>Yingrui Xu, Jingguo Ge, Guangxu Lyu, Guoyi Li, Hui Li</i>   |     |
| TS3IM: Unveiling Structural Similarity in Time Series Through Image Similarity Assessment Insights .....   | 567 |
| <i>Yuhan Liu, Ke Tu</i>  |     |
| CCAUNet: Boosting Feature Representation Using Complex Coordinate Attention for Monaural Speech Enhancement.....   | 574 |
| <i>Sixing Liu, Yi Jiang, Qun Yang</i>  |     |
| Multi-Level Graph Convolutional Networks with Enhanced Partitioning Strategies for Skeleton-Based Action Recognition .....   | 580 |
| <i>Xinyu Liu, Huaxiong Yao, Qin Peng</i>   |     |
| ROP: Exploring Image Captioning with Retrieval-Augmented and Object Detection of Prompt .....  | 587 |
| <i>Meng Zhang, Kai Yang, Shouqiang Liu</i>   |     |
| Human-Machine Collaborative Decision-Making Method Under Emergency Scenario for Unmanned Warehouse.....  | 593 |
| <i>Jingyi Xue, Tao Niu, Jingting Zong, Yingkang Zhang, Yibo Guo</i>  |     |
| TS-FL: Software Fault Localization Based on Teacher-Student Network.....   | 599 |
| <i>Jiale Zhang, Lei Yue, Liwei Zheng, Zhanqi Cui</i>   |     |
| Energy-Optimized Computation Offloading with Improved Differential Evolution in UAV-Enabled Edge and Cloud Computing .....   | 605 |
| <i>Haitao Yuan, Meijia Wang, Jing Bi, Jia Zhang, Mengchu Zhou</i>  |     |
| Low-Latency and Energy-Efficient Task Scheduling for End-Edge-Cloud Collaborative Computing .....  | 611 |
| <i>Jingyao Li, Haitao Yuan, Yaofei Ma, Jing Bi, Jinhong Yang, Jia Zhang</i>  |     |
| Data-Enhanced Prediction with Decomposition and Amplitude-Aware Permutation Entropy in Distributed Computing Systems .....   | 617 |
| <i>Haitao Yuan, Qinglong Hu, Jing Bi, Wei Zhang, Jia Zhang, Mengchu Zhou</i>   |     |
| Energy-Aware Scheduling for a Cloud Data Center by LSTM Prediction and African Vulture Optimization.....   | 623 |
| <i>Zhiyao Zhang, Qinghua Zhu, Yan Hou</i>  |     |
| Consistency-Driven Cross-Modality Transferring for Continuous Sign Language Recognition .....  | 629 |
| <i>Zhenghao Ke, Sheng Liu, Chengyuan Ke, Yuan Feng</i>   |     |
| SCG: A Novel Spatiotemporal Coupling Graph Convolutional Network-Incorporated Approach for Dynamic QoS Estimation .....  | 635 |
| <i>Fanghui Bi, Tiantian He</i>   |     |



|  |     |
|--|-----|
| Discrete Multi-View Feature Propagation Preserving Graph Clustering.....   | 641 |
| <i>Zhixuan Duan, Zuo Wang, Fanghui Bi, Tiantian He</i>   |     |
| Energy-Optimized Task Offloading with Genetic Simulated-Annealing-Based PSO for<br>Heterogeneous Edge and Cloud Computing.....   | 647 |
| <i>Haitao Yuan, Ziyue Zheng, Jing Bi, Jia Zhang, Mengchu Zhou</i>  |     |
| Non-Linearly Weighted Pheromone Updating for Ant Colony Optimization .....   | 653 |
| <i>Ying-Han Qiu, Qiang Yang, Jian-Yu Li, Ya-Hui Jia, Zi-Jia Wang, Xu-Dong Gao, Zhen-Yu Lu,<br/>Jun Zhang</i>   |     |
| Forced Breeding Evolution for Numerical Optimization .....   | 659 |
| <i>Wei-Kai Lai, Hsin-Hung Cho, Fan-Hsun Tseng, Chi-Yuan Chen, Jiang-Yi Zeng</i>  |     |
| Adaptive Ant Selection for Pheromone Update in Ant Colony Optimization .....   | 667 |
| <i>Biao Wang, Dan-Ting Duan, Qiang Yang, Xiao-Yan Zhao, Tao Li, Dong Liu, Jun Zhang</i>  |     |
| Modeling Human Strategy for Flattening Wrinkled Cloth Using Neural Networks.....   | 673 |
| <i>Nilay Kant, Ashrut Aryal, Rajiv Ranganathan, Ranjan Mukherjee, Charles Owen</i>   |     |
| Capturing Contact Surfaces by a Frustrated Total Internal Reflection System Using a Curved Plate<br>for Comparison of the Beginning of Touching Motions by Humankind Experts and Novices ..... | 679 |
| <i>Akishige Yuguchi, Mayuki Toyoda, Sung-Gwi Cho, Atsushi Nakazawa, Jun Takamatsu,<br/>Koichiro Yoshino, Tsukasa Ogasawara</i>   |     |
| Predictive Tree-Based Virtual Keyboard for Improved Gaze Typing.....   | 685 |
| <i>Hrushikesh Etikikota, Yogesh Kumar Meena</i>  |     |
| Cognitive Processes of Haptic Perception of Virtual Objects: Effect of Human and Machine<br>Disruptions .....  | 691 |
| <i>Lida Ghaemi Dizaji, Nusrat Z. Zenia, Yobbahim J. Vite, Yaoping Hu</i>   |     |
| State Representations as Incentives for Reinforcement Learning Agents: A Sim2Real Analysis on<br>Robotic Grasping.....   | 697 |
| <i>Panagiotis Petropoulakis, Ludwig Gräf, Mohammadhossein Malmir, Josip Josifovski, Alois<br/>Knoll</i>  |     |
| An Time-Frequency Graph Attention Network for Obstructive Sleep Apnea Detection.....   | 705 |
| <i>Jingliu Luo, Hao Wu</i>   |     |
| AnoGrad: Time Series Anomaly Detection with Score-Based Generative Model .....   | 711 |
| <i>Jiaxuan Mi, Xinning Zhu, Zhaoyang Meng, Zheng Hu</i>  |     |
| Amplitude-Ensemble Quantum-Inspired Tabu Search Algorithm for Solving 0/1 Knapsack<br>Problems.....  | 718 |
| <i>Kuo-Chun Tseng, Wei-Chieh Lai, I-Chia Chen, Yun-Hsiang Hsiao, Jr-Yu Chiue, Wei-Chun<br/>Huang</i>   |     |
| Calibrating Low-Cost Environmental Sensors Using Optimised Artificial Neural Networks.....   | 726 |
| <i>Tanzila Arafin, Anwar Hosen, Mohammad Rokonuzzaman</i>  |     |
| Enhancing Sign Language Teaching: A Mixed Reality Approach for Immersive Learning and<br>Multi-Dimensional Feedback .....  | 740 |
| <i>Hongli Wen, Yang Xu, Lin Li, Xudong Ru, Zhongke Wu, Yan Fu, Xuan Zheng, Xingce Wang</i>   |     |

|  |     |
|--|-----|
| EOSAD: An Event-Oriented Physiological and Behavioral Social Anxiety Annotation Dataset in Virtual Reality* .....      | 746 |
| <i>Qinyao Hou, Ding Ding, Jiaju Yang, Jiahang Tu</i>   |     |
| The Effect of Rhythmic Auditory Cues on Cognitive Resource Allocation During Gait Initiation: An EEG Study .....       | 753 |
| <i>Tao Meng, Jiajia Wu, Huilin Zhou, Guokun Zuo, Changcheng Shi</i>  |     |
| Steady-State Analysis of a Competitive Age-Structured Population System with Two Inputs .....                          | 759 |
| <i>Carina Veil, Eckhard Arnold, Oliver Sawodny</i>   |     |
| Adaptive Optimization Tracking Control for an Unmanned Aerial Vehicle with Disturbance Suppression .....               | 765 |
| <i>Meiying Yang, Hai Zhu, Xingyu Xia, Zhe Liu, Wen Yao</i>   |     |
| Empirical Study on Memory Allocation Patterns in GUI-Based Applications.....   | 772 |
| <i>Alexandre B. Ferreira, Rivalino Matias, Caio A. R. Dos Santos</i>   |     |
| State-Of-Charge Estimation of Supercapacitors for Reconfigurable Circuits .....  | 779 |
| <i>Heng Li, Zitao Zhou, Ren Zhu, Hui Peng, Jiehao Li</i>   |     |
| A Traffic Sign Detection Technique Using Road Scene Images and GPS/GIS Information .....                               | 785 |
| <i>Sung-Chi Yang, Huei-Yung Lin, Yu-Hsiang Fan, Shih-Han Wei</i>   |     |
| Comparison of Neural Network Models for Short-Term Load Forecasting .....  | 790 |
| <i>Shinead Surmon, Ahmad Ahmad, Xun Xiao, Huadong Mo</i>   |     |
| CB-YOLO: A Small Object Detection Algorithm for Industrial Scenarios.....  | 796 |
| <i>Hao Chen, Xiaoming Wu, Zhanzhi Su, Ying Zhao, Yunfeng Dong, Xiangzhi Liu</i>  |     |
| Visual Object Tracker Based on Video Temporal-Spatial Features and Long-Term Memory .....                              | 802 |
| <i>Yongyang Gao, Shiyong Lan, Piaoyang Li, Wei Ma</i>  |     |
| A Dual-Branch Structural Network for Human Pose Estimation Based on Millimeter Wave Radar .....                        | 809 |
| <i>Hanxin Chen, Jinghua Li, Dehui Kong, Baocai Yin</i>   |     |
| DGRC: An Effective Fine-Tuning Framework for Distractor Generation in Chinese Multi-Choice Reading Comprehension ..... | 815 |
| <i>Runfeng Lin, Dacheng Xu, Huijiang Wang, Zebiao Chen, Yating Wang, Shouqiang Liu</i>                                 |     |
| CC-Net: Consistency Learning Combined with Contrastive Learning for Kidney Ultrasound Segmentation .....               | 821 |
| <i>Yang Luo, Jun Liu, Mengqian Ding</i>  |     |
| An Efficient Token Mixer Model for Sheet Metal Defect Detection.....   | 827 |
| <i>Huijuan Hao, Sijian Zhu, Changle Yi, Yu Chen, Hongge Zhao, Yue Feng, Rong Yang</i>                                  |     |
| Fraud Detection for Financial Transactions: Leveraging Big Data Analytics and Machine Learning .....                   | 833 |
| <i>Yi Zhang, Yixuan Chen, Kai Zhang</i>  |     |
| Adversarial Patrolling Using a Shepherding Approach.....   | 839 |
| <i>Jonathan Zhou, Heba El-Fiqi, Aya Hussein</i>  |     |
| A Method of Ultrasonic Gesture Recognition Based on Attention Mechanism .....  | 845 |
| <i>Jieming Yang, Ying Lin, Yun Wu</i>  |     |

|   |     |
|---|-----|
| Energy-Efficient and Latency-Optimized Computation Offloading with Improved MOEA for Industrial Internet of Things .....  | 852 |
| <i>Jiahui Zhai, Jing Bi, Haitao Yuan, Jinhong Yang, Jia Zhang, Mengchu Zhou</i>   |     |
| Resource Allocation and Trajectory Optimization in Unmanned Aerial Vehicle-Assisted Mobile Edge Computing .....   | 858 |
| <i>Jing Bi, Xiangshuai Cheng, Haitao Yuan, Siyu Niu, Jiahui Zhai</i>  |     |
| Visual Navigation by Fusing Object Semantic Feature .....   | 872 |
| <i>Weimin Li, Xing Wu, Chengliang Wang, Zhongshi He, Peng Wang, Hongqian Wang</i>   |     |
| Dynamic Subgoal Based Path Formation and Task Allocation: A NeuroFleets Approach to Scalable Swarm Robotics .....   | 878 |
| <i>Robinroy Peter, Lavanya Ratnabala, Eugene Yugarajah Andrew Charles, Dzmityr Tsetserukou</i>  |     |
| Cinematic Theory of Cognition and Consciousness - Implications for Efficient Human-Computer Interactions .....  | 884 |
| <i>Robert Kozma, Bernard J. Baars, Natalie Geld</i>   |     |
| Joint Computing Offloading and Resource Allocation in MEC-Enabled IoT: A Diffusion-Based Reinforcement Learning Approach .....  | 890 |
| <i>Huimin Cao, Bo Xiao</i>  |     |
| Wolfe: Wifi Based Object Recognition Framework Using Multiple Features.....   | 897 |
| <i>Zheng Zhang, Junxing Zhang</i>   |     |
| Development of Dementia Care Training System Using AR and Large Language Model .....  | 903 |
| <i>Tomoya Miyawaki, Yuuki Nishiura, Ryouta Fukuda, Kazuto Nakashima, Ryo Kurazume</i>   |     |
| Reacting on Human Stubbornness in Human-Machine Trajectory Planning .....   | 909 |
| <i>Julian Schneider, Niels Straky, Simon Meyer, Balint Varga, Sören Hohmann</i>   |     |
| Pattern Handler: Integrating Real World and Virtual Models of Human Systems Patterns to Regulate the Control Distribution in a Cooperative Automated Driving Task .....                       | 916 |
| <i>Marcel Usai, Nils Mandischer, Frank Flemisch</i>   |     |
| Should, Want, Can, Will, Do and Be Accountable: Human-Machine and Human-AI Patterns for Integrating the Real World, Virtual Models and Society by Shared Control and Cooperative Systems..... | 924 |
| <i>Frank Flemisch, Marcel Usai, Nils Mandischer, Marcel C. A. Baltzer, Yuichi Saito, Marie-Pierre Pacaux-Lemoine</i>  |     |
| Parquet-Based CTR Model Training in Production Environment.....   | 930 |
| <i>Zhibing Liu, Jinrong Guo, Biyu Zhou, Xiaokun Zhu, Yongjun Bao, Jizhong Han, Songlin Hu</i>   |     |
| Enhancing Session-Based Recommendation Via Inter-Session Similar Intent Modeling and Graph Neural Networks.....   | 944 |
| <i>Yunhan Li, Chunyan An, Conghao Yang, Mingyuan Wang</i>   |     |
| EDAW: Enhanced Knowledge Distillation and Adaptive Pseudo Label Weights for Continual Named Entity Recognition .....  | 958 |
| <i>Yubin Sheng, Zuping Zhang, Panrui Tang, Bo Huang, Yao Xiao</i>   |     |
| Evolutionary Neural Architecture Search for 3D Point Cloud Analysis.....  | 966 |
| <i>Yisheng Yang, Guodong Du, Chean Khim Toa, Ho-Kin Tang, Sim Kuan Goh</i>  |     |

|   |      |
|---|------|
| Matching Input and Output Devices and Physical Disabilities for Human-Robot Workstations .....  | 972  |
| <i>Carlo Weidemann, Nils Mandischer, Burkhard Corves</i>  |      |
| Exploring Capability-Based Control Distributions of Human-Robot Teams Through Capability<br>Deltas: Formalization and Implications..... | 986  |
| <i>Nils Mandischer, Marcel Usai, Frank Flemisch, Lars Mikelsons</i>   |      |
| Trajectory Planning for UAV Transportation Systems Using RRT*-Informed NMPC .....   | 994  |
| <i>Junjie Kang, Jinjun Shan</i>   |      |
| Attention-Based Few-Shot Food Classification Using Prototypical Networks .....  | 999  |
| <i>Satchidanand Kshetrimayum, Yo-Ping Huang</i>   |      |
| Weighted Fuzzy Rough Sets Feature Selection for High Dimensional Classification Problems.....   | 1005 |
| <i>Simon Peter Khabusi, Yo-Ping Huang, Van Phong Vu</i>   |      |
| Is Shared Autonomous Driving Worth Promoting? Based on the Heterogeneity of Consumer Green<br>Preference.....                           | 1011 |
| <i>Li Wenjing, Zhang Yali</i>   |      |
| Integrating End-To-End and Modular Driving Approaches for Online Corner Case Detection in<br>Autonomous Driving.....                    | 1017 |
| <i>Gemb Kaljavesi, Xiyan Su, Frank Diermeyer</i>  |      |
| High-Precision Vehicle Positioning Technology by Combining Vehicle Images and Satellite Maps.....                                       | 1024 |
| <i>Yu-Xuan Chen, Huei-Yung Lin</i>  |      |
| Intrusion Detection System Based on FastICA and Multi-Grained Cascaded Forest.....  | 1030 |
| <i>Jiahui Fei, Shuangquan Zhang, Zhichao Lian</i>   |      |
| Efficient One-Shot Pruning of Large Language Models with Low-Rank Approximation .....   | 1036 |
| <i>Yangyan Xu, Cong Cao, Fangfang Yuan, Rongxin Mi, Nannan Sun, Dakui Wang, Yanbing Liu</i>   |      |
| Video-Based Examination Anomaly Action Recognition Via Channel-Temporal Model .....   | 1042 |
| <i>Qin Peng, Huaxiong Yao, Xinyu Liu</i>  |      |
| KGNet: A Legal Knowledge Enhancement and GlobalPointer Triple Extraction Network .....  | 1049 |
| <i>Jinchen Li, Yanling Li, Fengpei Ge, Xingxing Wang</i>  |      |
| Research on Task Assignment of Firefighting UAVs Based on E-CARGO Model.....  | 1057 |
| <i>Jin Xu, Zhiyu Xiang, Senyue Zhang, Yue Sun, Beihang Gao</i>  |      |
| RPID: Boosting Transferability of Adversarial Attacks on Vision Transformers .....  | 1063 |
| <i>Shujuan Wang, Panpan Wang, Yunpeng Sun, Zhichao Lian, Shuohao Li</i>   |      |
| LESaET: Low-Dimensional Embedding Method for Link Prediction Combining Self-Attention and<br>Enhanced-Tucker.....                       | 1070 |
| <i>Lichao Ding, Jing Zhao, Kai Lu, Zenghao Hao</i>  |      |
| Towards Adversarial Robustness in Blind Image Quality Assessment with Soft Thresholding Norm.....                                       | 1076 |
| <i>Desen Yuan, Lei Wang</i>   |      |
| MJR: Multi-Head Joint Reasoning on Language Models for Question Answering .....   | 1089 |
| <i>Shunhao Li, Jiale Chen, Enliang Yan, Choujun Zhan, Fu Lee Wang, Tianyong Hao</i>   |      |

|   |      |
|---|------|
| MFFDR: An Advanced Multi-Branch Feature Fusion and Dynamic Reconstruction Framework for Enhancing Adversarial Robustness .....                          | 1102 |
| <i>Shanwen Liu, Rongzuo Guo, Xianchao Zhang</i>   |      |
| BTP-CAResNet: An Encrypted Traffic Classification Method Based on Byte Transfer Probability and Coordinate Attention Mechanism .....                    | 1109 |
| <i>Junhao Li, Huiling Shi, Wei Zhang</i>  |      |
| SIKGC: Structural Information Prompt Based Knowledge Graph Completion with Large Language Models.....   | 1116 |
| <i>Wei Li, Jingguo Ge, Weihua Feng, Lei Zhang, Liangxiong Li, Bingzhen Wu</i>   |      |
| RealDriftGenerator: A Novel Approach to Generate Concept Drift in Real World Scenario .....   | 1124 |
| <i>Borong Lin, Chao Huang, Xiaohui Zhu, Nanlin Jin</i>  |      |
| An Agent-Based Model of Opinion Dynamics with Hierarchical Thinking.....  | 1130 |
| <i>Ou Lizhen, Yao Yiping, Luo Jiao, Tang Wenjie</i>   |      |
| RoPAR: Enhancing Adversarial Robustness with Progressive Image Aggregation and Reordering Noise.....  | 1137 |
| <i>Jong-Hyun An, Jung-Ho Hong, Hee-Dong Kim, Seong-Whan Lee</i>   |      |
| Bridging the Gap: Creating Authentic Biometric Templates for Secure Authentication Systems .....  | 1143 |
| <i>Rishabh Shukla, Harkeerat Kaur, Isao Echizen</i>   |      |
| PromotiCon: Prompt-Based Emotion Controllable Text-To-Speech Via Prompt Generation and Matching.....  | 1151 |
| <i>Ji-Eun Lee, Seung-Bin Kim, Deok-Hyeon Cho, Seong-Whan Lee</i>  |      |
| CHBaR: Conditional Hilbert Schmidt Bottleneck as Regularization for Adversarial Robustness .....  | 1157 |
| <i>Seung-Wook Jung, Jung-Ho Hong, Hee-Dong Kim, Seong-Whan Lee</i>  |      |
| GRUI: A Novel Gesture Recognition Utilizing UWB Sensor and IMU.....   | 1163 |
| <i>Dongjae Lee, Kyeonghyun Yoo, Wooyong Jung, Hwangnam Kim</i>  |      |
| Generating Explanations for Autonomous Robots Using Assumption-Alignment Tracking.....  | 1169 |
| <i>Xuan Cao, Jacob W. Crandall, Michael A. Goodrich</i>   |      |
| Selective Exploration and Information Gathering in Search and Rescue Using Hierarchical Learning Guided by Natural Language Input .....                 | 1175 |
| <i>Dimitrios Panagopoulos, Adolfo Perrusquia, Weisi Guo</i>   |      |
| Sensor System for Real-Time Classification of Manual Construction Tasks with Power Tools for Exoskeleton Control .....                                  | 1181 |
| <i>Bent Leudesdorff, Lydia R. S. Strümpfer, Thomas Dobosz, Christophe Maufroy, Urs Schneider, Thomas Bauernhansl</i>                                    |      |
| CiRA CORE: A Low Code Platform that Makes AI Work for Industry 4.0 .....  | 1187 |
| <i>Chu Kiong Loo, Siridech Boonsang, Thanyathep Sasisaowapak, Santhad Chuwongin, Teerawat Tongloy, Saeid Nahavandi, Kok Wai Wong</i>                    |      |
| Towards an Optimal Design: What Can We Recommend to Elon Musk?.....   | 1189 |
| <i>Martine Ceberio, Olga Kosheleva, Vladik Kreinovich, Hung T. Nguyen</i>   |      |
| Development of Tracking System for Swallowing Movement Using Optical Flow .....   | 1191 |
| <i>Naomi Yagi, Ryosuke Nishihara, Naoko Kawamura, Hitoshi Maetzawa, Hideki Kashioka, Masayuki Hirata, Toshio Yanagida, Yoshitada Sakai, Yutaka Hata</i> |      |

|   |      |
|---|------|
| The Improved Mango Plant Detection Model Based on Attention Module Mechanism.....   | 1193 |
| <i>Wen-Tsai Sung, Indra Griha Tofik Isa</i>   |      |
| AI-Enhanced Web Form Development: Tackling Accessibility Barriers with Generative Technologies.....                                     | 1195 |
| <i>Pradeep Kumar Saraswathi</i>   |      |
| UAVs for Sustainable Palm Oil Production: An Ant Colony Approach to Efficient Path Planning .....                                       | 1199 |
| <i>Weng Kin Lai, Pak Hen Chen, Li Li Lim, Patrick Sheng Siang Lee</i>   |      |
| Incremental Learning Algorithms for Broad Learning System with Node and Input Addition.....   | 1205 |
| <i>Guang-Ze Chen, Junwei Jin, Hai-Wei Sun, C. L. Philip Chen</i>  |      |
| RTS-DETR: Efficient Real-Time DETR for Small Object Detection .....   | 1211 |
| <i>Wenqiang Li, Aimin Li, Zhiyao Li, Xiaotong Kong, Yuechen Zhang</i>   |      |
| Synergizing Internal and External Knowledge: Prompt Engineering for Efficient and Effective Large Language Model Reasoning.....         | 1217 |
| <i>Gewei Lu, Chaofan He, Liping Shen</i>  |      |
| Try-Then-Eval: Equipping an LLM-Based Agent with a Two-Phase Mechanism to Solve Computer Tasks.....                                     | 1224 |
| <i>Duy Cao, Phu Nguyen, Vy Le, Long Nguyen, Vu Nguyen</i>   |      |
| Decrease the Prompt Uncertainty: Adversarial Prompt Learning for Few-Shot Text Classification.....                                      | 1230 |
| <i>Jinta Weng, Zhaoguang Zhang, Jing Yaqi, Chenxu Niu, Heyan Huang, Yue Hu</i>  |      |
| Enhancing Autofocus Performance Through Predictive Motion-Targeting and Self-Attention in a Deep Reinforcement Learning Framework ..... | 1237 |
| <i>Xiaolin Wei, Ruilong Yang, Xing Wu, Chengliang Wang, Haidong Wang, Hongqian Wang, Tao Tang</i>                                       |      |
| Fractional Order Controller Design for LFC of Two-Area Interconnected Power System with Time Delay Based on IMC Approach.....           | 1244 |
| <i>K Gnaneshwar, Prabin Kumar Padhy</i>   |      |
| SELus: Towards Spatio-Temporal Modeling and Quantitative Evaluation for Cyber-Physical Systems.....                                     | 1250 |
| <i>Quanguo Zhang, Jing Liu, Mingxing Liu, Yanhong Huang, Rongbin Hou, Jianqi Shi</i>  |      |
| Wheeled Mobile Robots on Rough Terrains as Stochastic Nonholonomic Systems .....  | 1256 |
| <i>Vaughn Gzenda, Robin Chhabra</i>   |      |
| Energy-Efficient Hybrid Model Predictive Trajectory Planning for Autonomous Electric Vehicles.....                                      | 1263 |
| <i>Fan Ding, Xuwen Luo, Gaoxuan Li, Hwa Hui Tew, Junn Yong Loo, Chor Wai Tong, A. S. M Bakibillah, Ziyuan Zhao, Zhiyu Tao</i>           |      |
| A Novel Information-Theoretic Metric for Evaluating LiDAR Setups of Autonomous Vehicles .....   | 1270 |
| <i>Philipp Hafemann, Xulin Song, David Brecht</i>   |      |
| The Eco-Label Strategy of Green Manufacture Under the Influence of Consumers' Intrinsic Preferences .....                               | 1278 |
| <i>Yingjie Hou, Peng Guo, Jing Zhao</i>   |      |
| AutoForma: A Large Language Model-Based Multi-Agent for Computer-Automated Design .....   | 1284 |
| <i>Jianxing Liao, Junyan Xu, Sicheng He, Zeke Chen, Shui Yu, Yun Li</i>   |      |

|   |      |
|---|------|
| Hybrid Data-Mechanism Modeling for Tire Response Dynamics in Estimating Tire-Road Friction Coefficient .....  | 1290 |
| <i>Jiaxing Lu, Liangzhu Cheng, Jun Liang, Nian Wang, Bin Li, Lin Zhang, Hong Chen</i>   |      |
| FLSTAGCN: Traffic Flow Prediction Based on Federated Learning and Attention Graph Convolutional Network .....   | 1296 |
| <i>Lei Shi, Shaohua Yuan, Huijuan Lian, Yufei Gao, Lin Wei, Qilong Wang</i>   |      |
| Steering Control Considering Motion Sickness and Vehicle Performance Via DDPG Algorithm and 6-DoF-SVC Model .....   | 1302 |
| <i>Uta Kawakami, Kenji Sawada</i>   |      |
| Robust Controller for Varying Speed Autonomous Ground Vehicles Considering System Uncertainties and Road Conditions .....   | 1308 |
| <i>Md Abdur Rahim, Adetokunbo Arogbonlo, Mohammad Rokonuzzaman, Ahmad Abu Alqumsan</i>  |      |
| Safety Verification of Advanced Driver Assistance Systems Using Hybrid Automaton Reachability .....   | 1314 |
| <i>Lu Liu, Qi Sun, Liren Yang, Yahui Li, Chunjie Zhou</i>   |      |
| Multi-Segment Fusion-Enhanced Spatial-Temporal Graph Convolutional Network for Traffic Flow Prediction .....  | 1322 |
| <i>Wei Zhang, Peng Tang</i>   |      |
| Incremental Evolution of Three Degree-Of-Freedom Arachnid Gaits .....   | 1328 |
| <i>Gary B. Parker, Manan B. M. Isak, Jim O'Connor</i>   |      |
| Individual-Level Dominant Exemplar Selection for Particle Swarm Optimization .....  | 1336 |
| <i>Hu-Long Wang, Dan-Ting Duan, Qiang Yang, Xu-Dong Gao, Pei-Lan Xu, Xin Lin, Zhen-Yu Lu, Jun Zhang</i>   |      |
| EARL-Light: An Evolutionary Algorithm-Assisted Reinforcement Learning for Traffic Signal Control .....  | 1342 |
| <i>Jing-Yuan Chen, Feng-Feng Wei, Tai-You Chen, Xiao-Min Hu, Sang-Woon Jeon, Yang Wang, Wei-Neng Chen</i>   |      |
| Evolutionary Reinforcement Learning with Double Replay Buffers for UAV Online Target Tracking .....   | 1350 |
| <i>Bai-Jiang Yu, Feng-Feng Wei, Xiao-Min Hu, Sang-Woon Jeon, Wen-Jian Luo, Wei-Neng Chen</i>  |      |
| Matrix-Based Ant Colony System for Traveling Salesman Problem .....   | 1358 |
| <i>Xu Li, Jian-Yu Li, Chun-Hua Chen, Zhi-Hui Zhan, Sam Kwong, Jun Zhang</i>   |      |
| Building Consensus in Group Decision-Making with Intuitionistic Reciprocal Preference Relations: An Analysis of Various Protocols of Information Granularity Distribution ..... | 1364 |
| <i>Juan Carlos González-Quesada, Francisco Javier Cabrerizo, Enrique Herrera-Viedma, Witold Pedrycz</i>   |      |
| CMA-BP: A Clustered Multi-Task Learning and Branch Attention Based Branch Predictor .....   | 1370 |
| <i>Ming Li, Rucong Xu, Hexu Zhang, Lin Li, Yun Li</i>   |      |
| RS-DETR: An Improved DETR for High-Resolution Remote Sensing Image Object Detection .....   | 1377 |
| <i>Feng Cao, Ruoyu Wang, Deyu Li, Zhiguo Hu</i>   |      |
| TransUAAE-CapGen: Caption Generation from Histopathological Patches Through Transformer and UNet-Based Adversarial Autoencoder .....  | 1383 |
| <i>S M Taslim Uddin Raju, Abdul Raqeeb Mohammad, Md. Milon Islam, Fakhri Karray</i>   |      |

|   |      |
|---|------|
| Learned Image Compression with Transformer-CNN Mixed Structures and Spatial Checkerboard Context .....  | 1391 |
| <i>Kexin Ji</i>   |      |
| Multi-Kernel Broad Learning System Based on Elastic-Net with Random Fourier Features .....  | 1398 |
| <i>Qihuai Zhang, Xiaojie Zhao</i>   |      |
| SFAM-Net: A Novel Dual-Branch Network Based on Spectral Feature and Attention Machine for Building Change Detection in Remote Sensing Imagery .....                   | 1403 |
| <i>Jiequn Li, Zhisen He, Yanfang Lv, Chen Yan, Xingkui Wang</i>   |      |
| A Browser-Driven cVEP-Based BCI Web Speller .....   | 1411 |
| <i>Atilla Cantürk, Kathrin Spieker, Ivan Volosyak</i>   |      |
| Decoding Speed and Direction of Imagined Hand Movement from EEG-BCI.....  | 1417 |
| <i>Sagila Gangadharan K., A. P. Vinod</i>   |      |
| A Study on the Efficacy of an Online Neurofeedback Game Using Consumer-Grade EEG on Enhancing Attention Skills in Stroke and Mild Cognitive Impairment Patients ..... | 1423 |
| <i>T. A. Suhail, Subasree R., A. P. Vinod</i>   |      |
| Auto-Adaptive Model for Longitudinal Motor Imagery Decoding in Amyotrophic Lateral Sclerosis .....  | 1429 |
| <i>Rishan Patel, Barney Bryson, Dai Jiang, Andreas Demosthenous</i>   |      |
| Post-Training Quantization in Brain-Computer Interfaces Based on Event-Related Potential Detection .....  | 1434 |
| <i>Hubert Cecotti, Dalvir Dhaliwal, Hardip Singh, Yohesh Kumar Meena</i>  |      |
| A Deep Reinforcement Learning Based Cooperative Adaptive Cruise Control for Connected and Autonomous Vehicle by Considering Preceding Vehicle Properties .....        | 1445 |
| <i>Xinxin Wang, Siyuan Gong, Lu Zeng, Yukun Ding, Jiakai Yin</i>  |      |
| A Hierarchical Heterogeneous IoT Time Series Data Index for NVM.....  | 1451 |
| <i>Tao Cai, Tianle Lei, Dejiao Niu, Jianfei Dai, Zeyu Huang, Qiangqiang Ni</i>  |      |
| Cooperative Control for Multiple DC-DC Converters of Li-Ion Battery Systems .....   | 1457 |
| <i>Heng Li, Chen Le, Ren Zhu, Haiya Yu, Hui Peng, Jiehao Li</i>   |      |
| Predictive Set-Point Modulation Control of Lithium-Ion Battery Storage System for Autonomous Rail Rapid Transit.....  | 1463 |
| <i>Heng Li, Haiya Yu, Ren Zhu, Chen Le, Hui Peng, Jiehao Li</i>   |      |
| An Urban Electric Vehicle Charging System Via Hybrid Heterogeneous Modes .....  | 1469 |
| <i>Keyang Zhang, Yueheng Liu, Shuohan Liu, Junqiao Gao, Yue Cao, Naveed Ahmad, Xu Zhang</i>   |      |
| How to Drive - An Ability-Based Description of Autonomous, Remote and Human Driving.....  | 1477 |
| <i>Florian Pfab, Nils Gehrke, Frank Diermeyer</i>   |      |
| A Reliability Framework for Proactive-Tolerance Reed-Solomon Storage Systems* .....   | 1484 |
| <i>Jing Li, Zhenrui Zhou, Jianli Ding</i>   |      |
| A New Transmission Cause and Effect Analysis (TCEA) Approach to Risk Management for Non-Healthcare Context: A Case Study on COVID-19.....                             | 1498 |
| <i>Yi Wen Kerk, Kai Meng Tay, Chian Haur Jong, Chee Shee Chai, Chee Peng Lim</i>  |      |
| Compressed Sensing Signal Reconstruction for Real-Time Machine Vision Systems.....  | 1504 |
| <i>Yu Lu, Pufan Cai, Jingying Yu, Shijie Shi, Meng Li, Huilin Ge, Xianghua Fu</i>   |      |



|  |      |
|--|------|
| Static Code Analysis of IEC 61131–3 ST Programs Via Symbolic Execution.....  | 1510 |
| <i>Mengyan Zhao, Yanhong Huang, Jianqi Shi, Yinghao Chen, Yang Yang</i>  |      |
| Latent Vector Autoregressive Modeling with Maximum Predicted Variance for Dynamic Process Monitoring.....                | 1518 |
| <i>Shumei Chen, S. Joe Qin</i>   |      |
| MFMM: Multimodal Sentiment Analysis Based on Modal Focusing Model.....   | 1524 |
| <i>Shuangyang Sun, Guoyan Xu, Sijun Lu</i>   |      |
| Virtual Feature Generation and Learning for Federated Domain Generalization.....   | 1530 |
| <i>Wenkang Kong, Jun Huang, Zhuoming Liang</i>   |      |
| Entity Label-Guided Graph Fusion Multi-Modal Named Entity Recognition .....  | 1538 |
| <i>Guohui Ding, Wenjing Tang, Zhaoyi Yuan</i>  |      |
| Incorporating Heterophily into Graph Neural Networks for Graph Classification.....                                       | 1544 |
| <i>Jiayi Yang, Sourav Medya, Wei Ye</i>  |      |
| Sensor-Based Authentication on Smartphones Via Integrating Auxiliary Information .....                                   | 1552 |
| <i>Yingjie Wang, Ruimin Hu</i>   |      |
| TS-DETR: A Small Object Detection Model in Autonomous Driving Systems .....  | 1558 |
| <i>Yifan Niu, Chenglin Feng, Tiantian Zeng, Kai Xiao, Shaozhi Wu, Xingang Liu, Han Su, Jiechuan Gong</i>                 |      |
| A Case Study on Blockchain-Based Anonymous Reviewer Incentive Token (BARIT).....   | 1564 |
| <i>Pratiksha Shrestha, Suman Bhunia, Arthur Carvalho, Chad Anderson, Gabe Lee</i>  |      |
| Using Large Language Models to Integrate Virtual Students in Computerized Learning Platforms.....                        | 1572 |
| <i>Miguel Arevalillo-Herrez, Aladdin Ayeshe, Houman D. Rezakhanlou-Alarte, David Arnau-Vera</i>                         |      |
| Inverse Stereo Matching Supervised Dense Point Cloud Reconstruction for Scenes.....                                      | 1574 |
| <i>Ze Zong, Jie Xie, Jin Zhang, Cheng Wu</i>   |      |
| VTLL: Visual-Texture Multi-Modal Fusion for Table Structure Recognition Based on Logic Location Regression .....         | 1580 |
| <i>Jun Fang, Chongyang Zhang</i>   |      |
| An Efficient Multi-Layer Indexing Method on Blockchain for Multimodal Data Querying.....                                 | 1586 |
| <i>Haoyu Jia, Xiaoming Wu, Shanshan Liu, Qile Yuan, Bei Qi, Xiangzhi Liu</i>   |      |
| Improved Imbalance Resilience in Continual Multi-Label Classification with Adaptive Margin Spiking Neural Networks ..... | 1592 |
| <i>Sourav Mishra, Shirin Dora, Suresh Sundaram</i>   |      |
| Combining Deep Learning and Expert Rules for Smart Contract Vulnerability Detection .....                                | 1598 |
| <i>Senlin Ren, Jun Yang, Xiguo Gu, Liwei Zheng, Zhanqi Cui</i>   |      |
| CPR: Mitigating Large Language Model Hallucinations with Curative Prompt Refinement .....                                | 1604 |
| <i>Jung-Woo Shim, Yeong-Joon Ju, Ji-Hoon Park, Seong-Whan Lee</i>  |      |
| MVESF: Multi-View Enhanced Semantic Fusion for Controllable Text-To-Image Generation .....                               | 1610 |
| <i>Hai Zhang, Guitao Cao, Xinke Wang, Jiahao Quan</i>  |      |

|   |      |
|---|------|
| Channel Independent Attention Network for Electricity Theft Detection .....                                     | 1618 |
| <i>Nianping Qin, Yao Zhou</i>   |      |
| Multi-Objective Defect Detection Method for Transmission Lines Based on Improved YOLOv8 .....                   | 1630 |
| <i>Jingdong Wang, Xu Ding, Fanqi Meng, Lina Zhou</i>  |      |
| A Near-Imperceptible Disambiguating Approach Via Verification for Generative Linguistic<br>Steganography .....  | 1638 |
| <i>Ruiyi Yan, Tian Song, Yating Yang</i>  |      |
| Improve Deep Learning Autofocus with Depth Information Supervision and Current Focal<br>Distance Cues .....     | 1644 |
| <i>Xiaolin Wei, Ruilong Yang, Xing Wu, Chengliang Wang, Haidong Wang, Hongqian Wang, Tao<br/>Tang</i>           |      |
| Identification of Diseases in Greenhouse Tomato Cultivation: A New Dataset and Baseline Results .....           | 1652 |
| <i>Grasielli B. Zimmermann, Marcelo E. Pellenz, Alceu De Souza Britto, Yandre M. G. Da Costa</i>                |      |
| A GCN-Based Trip Recommendation Method Incorporating Reverse Effect .....                                       | 1660 |
| <i>Wenjing Luan, Xueyao Wang, Liang Qi, Kun Liu, Xiwang Guo</i>   |      |
| Heterogeneous Space Fusion and Dual-Dimension Attention: A New Paradigm for Speech<br>Enhancement .....         | 1666 |
| <i>Tao Zheng, Liejun Wang, Yinfeng Yu</i>   |      |
| Safely Knowledge Transfer from Source Models Via an Iterative Pruning Based Learning<br>Approach .....          | 1672 |
| <i>Xiaoyu Sean Lu, Jianan Zhang, Siya Yao, Bo Huang</i>   |      |
| Learning Node-Pair Insertion for the Pickup and Delivery Problem with Time Windows .....                        | 1678 |
| <i>Zhanhong Fang, Jinbiao Chen, Zizhen Zhang, Dawei Su</i>  |      |
| Domain Adaptive Lung Nodule Detection in X-Ray Image.....   | 1684 |
| <i>Haifeng Zhao, Lixiang Jiang, Leilei Ma, Dengdi Sun, Yanping Fu</i>   |      |
| PWPH: Proactive Deepfake Detection Method Based on Watermarking and Perceptual Hashing.....                     | 1691 |
| <i>Jian Li, Shuanshuan Li, Bin Ma, Chunpeng Wang, Linna Zhou, Fei Wang, Yule Wang,<br/>Miaomiao Yang</i>        |      |
| FUIT: Improving Semantic Consistency in Unpaired Image Translation Via High and Low<br>Frequency Guidance ..... | 1697 |
| <i>Mingxin Du, Juanjuan Luo</i>   |      |
| Sensitive Image Classification by Vision Transformers .....   | 1704 |
| <i>Hanxian He, Campbell Wilson, Thanh Thi Nguyen, Janis Dalins</i>  |      |
| An Industrial Scene Text Detection with Spectral Domain Enhancement and Graph Fourier<br>Mapping .....          | 1712 |
| <i>Wocheng Xiao, Lingyu Liang, Shuangping Huang</i>   |      |
| Multi-Stream GCN and CNN for Skeleton-Based Action Recognition .....  | 1718 |
| <i>Kenzhebek Taniyev, Tomiris Zhaksylyk, Nguyen Anh Tu</i>  |      |
| Unsupervised Few-Shot Adaptive Re-Learning for EEG-Based Motor Imagery Classification.....                      | 1723 |
| <i>Han Wei Ng, Cuntai Guan</i>  |      |

|   |      |
|---|------|
| Closed-Loop Phase Selection in EEG-TMS Using Bayesian Optimization.....   | 1730 |
| <i>Miriam Kirchhoff, Dania Humaidan, Ulf Ziemann</i>  |      |
| Low-Complexity RR Interval-Based Cardiac Dysrhythmia Indicator for Wearable ECG Devices .....   | 1736 |
| <i>Yellappa Palagani, Venkateswarlu Gonuguntla</i>  |      |
| Self-Checkout Product Detection with Occlusion Layer Prediction and Intersection Weighting.....   | 1742 |
| <i>Zhongling Liu, Ziqiang Shi, Rujie Liu, Liu Liu, Takuma Yamamoto, Daisuke Uchida</i>  |      |
| Modeling Operator Involvement in Automated Production: A Case Study of the Functional Resonance Analysis Method.....                        | 1748 |
| <i>Jan Wilch, Birgit Vogel-Heuser, Niklas Grabbe, Klaus Bengler, Magdalena Posch</i>  |      |
| Annotation-Based Semantic Conflict Prevention in Real-Time Collaborative Programming: Approach, Techniques, Prototype, and User Study ..... | 1755 |
| <i>Mingjie Wang, Bicheng Fang, Jinfeng Jiang, Hongfei Fan</i>   |      |
| ICU-TGNN: A Hybrid Multitask Transformer and Graph Neural Network Model for Predicting Clinical Outcomes of Patients in the ICU.....        | 1761 |
| <i>Tongyue Shi, Haowei Xu, Jun Ma, Guilan Kong</i>  |      |
| Mitigating Exposure Bias in Score-Based Generation of Molecular Conformations.....  | 1767 |
| <i>Sijia Wang, Chen Wang, Zhenhao Zhao, Jiqiang Zhang, Weiran Cai</i>   |      |
| FedCGSU: Client Grouping Based on Similar Uncertainty for Non-IID Federated Learning .....  | 1773 |
| <i>Hesheng Liu, Li Feng, Muyu Mei</i>   |      |
| NQNR: News Recommendation Method Based on News Quality-Aware Modeling.....  | 1779 |
| <i>Baojie Xu, Zhenyu Yang, Yan Huang, Wenyue Hu, Zhibo Zhang</i>  |      |
| Uncertainty-Based Continual Learning for Neural Networks with Low-Rank Variance Matrices.....   | 1787 |
| <i>Xuan Rao, Bo Zhao, Derong Liu</i>  |      |
| A Collaborative Heterogeneous Graph Neural Network for Personalized News Recommendation .....   | 1793 |
| <i>Chenglong Shi, Haibin Geng, Wenfeng Jiang, Jinbao Li, Chao Wu, Song Liu</i>  |      |
| A GCN-Based Model for Next POI Recommendation with Fusion of Global and Local Information .....   | 1801 |
| <i>Wenjing Luan, Kaixuan Liu, Liang Qi, Kun Liu, Xiawang Guo</i>  |      |
| Beyond Label: Cold-Start Self-Training for Cross-Domain Semantic Text Similarity .....  | 1807 |
| <i>Bo Huang, Jiasong Liu, Xin Liu, Cui Chen, Zuping Zhang</i>   |      |
| Optimizing Linux Scheduling Based on Global Runqueue with SCX.....  | 1813 |
| <i>Tang Qinan, Gao Xing, Li Guilin, Lin Juncong</i>   |      |
| MorphoMove: Bi-Modal Path Planner with MPC-Based Path Follower for Multi-Limb Morphogenetic UAV .....                                       | 1820 |
| <i>Muhammad Ahsan Mustafa, Yasheerah Yaqoot, Mikhail Martynov, Sausar Karaf, Dzmitry Tsetselukou</i>  |      |
| State-Of-Charge Estimation of Lithium-Ion Battery Switched Balancing System.....  | 1826 |
| <i>Heng Li, Shunli Wang, Ren Zhu, Xiang Zhao, Hui Peng, Yunsheng Fan, Rui Zhang</i>   |      |
| Simulation and Control of Slope Bottlenecks Based on Cellular Automata in Mixed Traffic Flow .....  | 1832 |
| <i>Fengqi Zhang, Liang Qi, Wenjing Luan, Ruiping Yang, Xiawang Guo</i>  |      |

|   |      |
|---|------|
| Research on Optimization and Scheduling of MPTCP Data Networks in GNSS Network Reference Stations .....                         | 1838 |
| <i>Fengqi Hao, Yuxin Wang, Hoiio Kong, Dexin Ma, Xiyuan Zhao</i>  |      |
| Multi-UAV Distributed Collaborative Path Planning Based on NTVPPSO.....   | 1846 |
| <i>Guohui Liu, Yujun Wang, Xingxiang Dong, Kemeng Ran</i>   |      |
| An Affine-Based Maneuver Control Method for Multi-Agent Cooperative Transportation System Over Switching Formations.....        | 1854 |
| <i>Tianqi Liu, Xiaolin Ai, Zhiqiang Pu, Feng Lv</i>   |      |
| Dynamic and Cooperative Multi-Agent Task Allocation: Enhancing Nash Equilibrium Through Learning .....                          | 1860 |
| <i>António Ribeiro Da Costa, Daniel Moreno París, Marin Lujak, Rosaldo J. F. Rossetti, Zafeiris Kokkinogenis</i>                |      |
| A Deep Learning Approach to High Accuracy Driver Identification Using Physiological Signals with Optimal Driver Pool Size ..... | 1867 |
| <i>Ao Guo, Zhiying Huang, Yuang Meng, Jianhua Ma</i>  |      |
| Modularity Maximization-Incorporated Nonnegative Tensor RESCAL Decomposition for Dynamic Community Detection .....              | 1871 |
| <i>Hao Fang, Qu Wang, Qicong Hu, Hao Wu</i>   |      |
| How to Reduce Loss of Personnel Arrangement? a Group MultiRole Assignment Perspective .....                                     | 1877 |
| <i>Xintong Ke, Xuwei Lin, Haibin Zhu, Dongning Liu</i>  |      |
| Solving the Bank Credit Decision Problem Via Revised Group Multi-Role Assignment .....  | 1883 |
| <i>Kaizhe Zeng, Weijian Liu, Haibin Zhu, Dongning Liu</i>   |      |
| Anomaly-Free Prior Guided Knowledge Distillation for Industrial Anomaly Detection .....   | 1889 |
| <i>Gang Li, Tianjiao Chen, Min Li, Delong Han, Mingle Zhou</i>  |      |
| FGSNet: A Finer-Grained Siamese Network for Industrial Few-Shot Anomaly Detection.....  | 1895 |
| <i>Delong Han, Luo Xu, Mingle Zhou, Gang Li, Min Li</i>   |      |
| Self-Supervised Generative Pre-Trained Model with a Learnable Mask Network for Industrial Time Series Prediction.....           | 1901 |
| <i>Chenze Wang, Han Wang, Qing Liu</i>  |      |
| Impacts of Darwinian Evolution on Pre-Trained Deep Neural Networks .....  | 1907 |
| <i>Guodong Du, Runhua Jiang, Senqiao Yang, Haoyang Li, Wei Chen, Keren Li, Sim Kuan Goh, Ho-Kin Tang</i>                        |      |
| Conflict-Free Genetic Algorithm with Nash Equilibrium Seeking for Game-Based Battery Swapping Station Recommendation.....       | 1913 |
| <i>Chang-Long Sun, Xin-Xin Xu, Chun-Hua Chen, Jun Hong, Zhenan He, Dengxiu Yu, Sam Kwong, Zhi-Hui Zhan</i>                      |      |
| Transforming GP-CNN Tree Search into Trainable Architectures for Image Classification.....                                      | 1919 |
| <i>Feng Sun, Yan Ke, Yue-Jiao Gong, Yun Li</i>  |      |
| Ellipsis Resolution: Generative Adversarial Networks and Fine-Tuning with Large-Scale Models for Improved Performance .....     | 1927 |
| <i>Zhang Mengkang, Xu Xiujuan, Zhao Xiaowei</i>   |      |

|   |      |
|---|------|
| Fabric Defect Detection Based on Hybrid Attention Transformer and Improved Cascade R-CNN.....   | 1933 |
| <i>Li Yao, Simeng Song, Yan Wan</i>   |      |
| DHFusion: Deep Hypergraph Convolutional Network for Multi-Modal Physiological Signals<br>Fusion.....  | 1939 |
| <i>Yuanhang Shen, C. L. Philip Chen, Tong Zhang</i>   |      |
| Internet Outages During Times of Conflict .....   | 1945 |
| <i>Luiz Felipe Oliveira, Rob Ballantyne, Jano Souza, Ljiljana Trajkovic</i>   |      |
| Unveiling the Black Box: Neural Cryptanalysis with XAI .....  | 1951 |
| <i>Yue-Tian Goi, Shu-Min Leong, Raphaël C.-W. Phan, Shangqi Lai, Ana Salagean</i>   |      |
| CMACC: Cross-Modal Adversarial Contrastive Learning in Visual Question Answering Based on<br>Co-Attention Network.....  | 1957 |
| <i>Zepu Yi, Songfeng Lu, Xueming Tang, Junjun Wu, Jianxin Zhu</i>   |      |
| A Fast and Safe Neuromorphic Approach for Obstacle Avoidance of Unmanned Aerial Vehicle.....  | 1963 |
| <i>Zhong Wan, Xiangyu Zhang, Xun Xiao, Jingyue Zhao, Junbo Tie, Renzhi Chen, Shi Xu,<br/>Guangda Zhang, Lei Wang, Huadong Dai</i>   |      |
| Detection of Low Rate DDoS with Adversarial Attacks by Enhanced Generative Adversarial<br>Networks .....  | 1969 |
| <i>Tzu-Yi Hsiao, Shih-Hsuan Yang</i>  |      |
| AODPFL: An Adaptive Optimization Method for Differentially Private Federated Learning.....  | 1976 |
| <i>Mengxing Qiu, Xiaoyan Liang, Ruizhong Du</i>   |      |
| Are ViTs Weak Against Patch Attacks? .....  | 1984 |
| <i>Soniya, Phil Munz, Apurva Narayan</i>  |      |
| KI-Mix: Enhancing Cyber Threat Detection in Incomplete Supervision Setting Through<br>Knowledge-Informed Pseudo-Anomaly Generation .....  | 1992 |
| <i>Gang Yang, Bo Wu, Linna Fan, Xia Tao, Jun He</i>   |      |
| SEASHA3: Secure and Efficient Encryption for the IoT Data by Replacing Subkeys of AES with<br>SHA3.....   | 1998 |
| <i>Ankush Soni, Sanjay K. Sahay</i>   |      |
| Adaptive Integrating General and Personalized Features for Enhanced Decoding of Motor Imagery<br>EEG Signals Via HyperNet-Based Module.....                                       | 2004 |
| <i>Si-Hyun Kim, Sung-Jin Kim, Dae-Hyeok Lee, Heon-Gyu Kwak, Seong-Whan Lee</i>  |      |
| Decoding Musical Timbre Perception from Single-Trial EEG Data .....   | 2016 |
| <i>Praveena Satkunarajah, Sarah D. Power, Benjamin Rich Zendel</i>  |      |
| Brain-Computer Interface System Based on Common Spatial Patterns for Inner Speech<br>Recognition from Electroencephalography Signal by Using a Convolutional Neural Networks..... | 2021 |
| <i>Hussna Elnoor M. Abdalla, Syed Abdul Rahman Al-Haddad, Hamidon Bin Basri, Ishak Bin<br/>Aris, Abdul Hanif Khan Bin Yusofy, Hisham Neyaz</i>                                    |      |
| Can Quasi-Movements Be Used as a Model of the BCI Based on Attempted Movements?.....  | 2028 |
| <i>Artem S. Yashin, Anatoly N. Vasilyev, Yulia G. Shevtsova, Sergei L. Shishkin</i>   |      |
| Autonomous Structural Inspection with an Octocopter UAV: Integration of 3D LiDAR and Gimbal-<br>Mounted Camera .....  | 2034 |
| <i>Ji-Hwan Son, Deokyun Kim, Jihun Cha</i>  |      |

|   |      |
|---|------|
| Networked Systems Diagnostics: A Fusion of Failure Mode and Effects Analysis and a Delphi Expert Study .....              | 2041 |
| <i>Yongxu Ren, Felix Deichsel, Valentin Hopf, Jürgen Seiler, André Kaup, Philipp Beckerle</i>                             |      |
| A Deep Reinforcement Learning Approach for Route Planning of Autonomous Vehicles* .....                                   | 2047 |
| <i>Francesco Paparella, Giuseppe Olivieri, Gaetano Volpe, Agostino Marcello Mangini, Maria Pia Fanti</i>                  |      |
| Refining Sensitive Document Classification: Introducing an Enhanced Dataset Proposal .....                                | 2053 |
| <i>Mouhamet Latyr Ndiaye, Ahmed Hamdi, Amdjed Mokhtari, Yacine Ghamri-Doudane</i>   |      |
| Collaborative Scheduling Optimization Method for Multi-Stage Automobile Engine Hybrid Flow Shop.....                      | 2059 |
| <i>Hewang Zhai, Congbo Li, Wei Wu, Maokun Xiong, Miao Yang</i>  |      |
| Isolation Forest Backward Particle Swarm Optimization Algorithm and Its Application to Control Problems.....              | 2065 |
| <i>Po-Chien Luan, Ping-Huan Kuo, Kuan-Ting Cho, Chao-Chi Lee, Wei-Hsiang Huang, Yen-Ming Chen, Tzuu-Hseng S. Li</i>       |      |
| Controlling Autonomous Machines at Construction Sites with Heterogeneous Moving Objects by Model Predictive Control ..... | 2073 |
| <i>Shinji Ishihara, Toshiyuki Ohtsuka</i>   |      |
| Co-Estimation of SOC and Parameters of Supercapacitors Based on a Switched Model .....                                    | 2079 |
| <i>Xiaoyang Chen, Heng Li, Ren Zhu, Hui Peng, Yunsheng Fan, Rui Zhang</i>   |      |
| Static and Time-Extended 1-On-1 Multi-Agent Task Allocation with Implements and Limited Autonomy.....                     | 2085 |
| <i>Marin Lujak, Jorge Gutiérrez-Cejudo, Alessio Salvatore, Stefano Giordani, Alberto Fernandez</i>                        |      |
| Cooperative Search and Track of Rogue Drones Using Multiagent Reinforcement Learning .....                                | 2091 |
| <i>Panayiota Valianti, Kleanthis Malialis, Panayiotis Kolios, Georgios Ellinas</i>  |      |
| CNN Distance Estimation Based on Received Signal Strength Indicator .....   | 2103 |
| <i>Hung-Chi Chu, Hong-Cheng Lai, Mu-Yen Wang, Shih-Jung Wu</i>  |      |
| MedX-Net: Hierarchical Transformer with Large Kernel Convolutions for 3D Medical Image Segmentation .....                 | 2108 |
| <i>Lin Lu, Qingzhi Zou</i>  |      |
| Mutual a Priori Based Completion for Low Overlapping Point Clouds Registration .....                                      | 2114 |
| <i>Zhiyong Liu, Yazhou Liu</i>  |      |
| Rapid Maize Seedling Detection Based on Receptive-Field and Cross-Dimensional Information Interaction.....                | 2120 |
| <i>Fengqi Hao, Shulei Zhu, Dexin Ma, Xiangjun Dong, Hoiio Kong, Xia Liu, Chunhua Mu</i>                                   |      |
| Improving Class Imbalanced Few-Shot Image Classification Via an Edge-Restrained SinDiffusion Method .....                 | 2126 |
| <i>Xu Zhao, Hongwei Dong, Yuquan Wu</i>   |      |
| GOAT: Learning Multi-Body Dynamics Using Graph Neural Network with Restrains .....  | 2132 |
| <i>Sheng Yang, Daixi Jia, Lipeng Chen, Kunyu Li, Fengge Wu, Junsuo Zhao</i>   |      |

|   |      |
|---|------|
| Classification of Table Cells Based on LLM Prompts.....   | 2140 |
| <i>Mengjie Liu, Chenyang Bu, Shengxing Bai, Bingbing Dong, Xindong Wu</i>   |      |
| Knowledge Distillation Using Global Fusion and Feature Restoration for Industrial Defect Detectors.....                 | 2146 |
| <i>Zhengqian Feng, Xiyao Yue, Wang Li, Mingle Zhou, Delong Han, Gang Li</i>   |      |
| An Adaptive Residual Coordinate Attention-Based Network for Hat and Mask Wearing Detection in Kitchen Environments..... | 2152 |
| <i>Ying Zhao, Xiaoming Wu, Xiangzhi Liu, Hao Chen, Bei Qi, Huomin Dong</i>  |      |
| A Multi-Objective Binary Differential Evolution Operator for Feature Selection .....                                    | 2158 |
| <i>Parastoo Dehnad, Azam Asilian Bidgoli, Shahryar Rahnamayan</i>   |      |
| Wheat-YOLO: A Real-Time and High Precision Object Detection for Wheat .....   | 2165 |
| <i>Jin Xu, Yue Sun, Senyue Zhang, Dongdong Sun, Zhiyu Xiang</i>   |      |
| A Sequential Pattern Mining Approach for Situation-Aware Human Activity Projection.....                                 | 2171 |
| <i>Giuseppe D'Aniello, Roberto Falcone, Matteo Gaeta, Zia Ur Rehman, Giancarlo Fortino</i>                              |      |
| NRPP: A Learning Graph Representation Approach for Network Robustness Prediction .....                                  | 2178 |
| <i>Wenli Huang, Liang Chen, Shuai Zhang, Junli Li</i>   |      |
| ALGIN: Adaptive Local and Global Interests Network for Click-Through Rate Prediction .....                              | 2186 |
| <i>Yingjia Xiang, Xuanyu Lu, Wei Zhou, Junhao Wen</i>   |      |
| Data Importance Measurement Based on Sampling Region Information for Oversampling .....                                 | 2194 |
| <i>Xuanxuan Liu, Li Guo, Long Chen</i>  |      |
| A Semantic Verifier for Optimizing Small-Scale Large Language Models on Reasoning Tasks .....                           | 2200 |
| <i>Yu Bai, Jun Li, Fang Cai, Yuting Liu</i>   |      |
| Novel Post-Training Structure-Agnostic Weight Pruning Technique for Deep Neural Networks.....                           | 2206 |
| <i>Zahra Abdi Reyhan, Shahryar Rahnamayan, Azam Asilian Bidgoli</i>   |      |
| Vulnerability Detection by Sequential Learning of Program Semantics Via Graph Attention Networks .....                  | 2213 |
| <i>Li Li, Qihong Han, Zhanqi Cui</i>  |      |
| SMDNet: A Pulmonary Nodule Classification Model Based on Positional Self-Supervision and Multi-Direction Attention..... | 2219 |
| <i>Jun Xiong, Chengliang Wang, Xing Wu, Peng Wang, Haidong Wang, Hongqian Wang</i>                                      |      |
| Sim-To-Real Domain Adaptation for Deformation Classification .....  | 2225 |
| <i>Joel Sol, Jamil Fayyad, Shadi Alijani, Homayoun Najjaran</i>   |      |
| FP3Seg: Point Cloud Panoptic Segmentation Via LiDAR-Camera Fusion and Progressive Decoder .....                         | 2232 |
| <i>Xianyou Dai, Libo Weng, Fei Gao</i>  |      |
| OneDConv: Generalized Convolution for Transform-Invariant Representation.....   | 2238 |
| <i>Haohan Weng, C. L. Philip Chen, Ke Yi, Haiqi Liu, Tong Zhang</i>   |      |
| Monocular Ranging Based on Camera Pose in Visual Train Positioning.....   | 2244 |
| <i>Wei Li, Yanyan Yang, Ming Chai, Jinke Shi, Hongjie Liu, Jidong Lv, Haoxiang Su</i>                                   |      |
| Advancing ESWL Outcome Predictions in X-Ray and CT Through Sophisticated Feature Selection .....                        | 2250 |
| <i>Soya Kobayashi, Daisuke Fujita, Hironobu Shibutani, Shinsuke Gohara, Syoji Kobashi</i>                               |      |

|   |      |
|---|------|
| Medical Visual Prompting (MVP): A Unified Framework for Versatile and High-Quality Medical Image Segmentation .....                     | 2255 |
| <i>Yulin Chen, Guoheng Huang, Kai Huang, Zijin Lin, Guo Zhong, Shenghong Luo, Jie Deng, Jian Zhou</i>                                   |      |
| MemADet: A Representative Memory Bank Approach for Industrial Image Anomaly Detection.....  | 2261 |
| <i>Min Li, Jinghui He, Zuobin Ying, Gang Li, Mingle Zhou</i>  |      |
| Cross-Modality Disentangled Information Bottleneck Strategy for Multimodal Sentiment Analysis.....                                      | 2267 |
| <i>Zhengen Deng, Guoheng Huang, Guo Zhong, Xiaochen Yuan, Lian Huang, Chi-Man Pun</i>   |      |
| Enhanced Slicing Prototype and Hybrid Metric Transformer for Few-Shot Medical Image Classification .....                                | 2275 |
| <i>Bo Wang, Hailing Wang, Guitao Cao</i>  |      |
| Dual Contrastive Learning with Mutual Correction for Semi-Supervised Medical Image Segmentation .....                                   | 2282 |
| <i>Jiazhe Zhu, Lianghua He</i>  |      |
| Shedding New Light on Traditional Image Clustering: A Non-Deep Approach with Competitive Performance and Interpretability .....         | 2289 |
| <i>Jie Yang, Sheng-Ku Lin</i>   |      |
| SIDN-NAS: Scalable Iterative Dense Network with Neural Architecture Search Optimization for Medical Image Segmentation .....            | 2297 |
| <i>Jianjun Zhou, Junying Chen</i>   |      |
| A Computational Mechanism for Forming Arm Motor Memories Differentiated by Dynamic Gaze States .....                                    | 2305 |
| <i>Naotoshi Abekawa, Hiroaki Gomi</i>   |      |
| Maximizing Disagreement and Polarization in Social Media Networks Using Double Deep Q-Learning .....                                    | 2311 |
| <i>Mohamed N. Zareer, Rastko R. Selmic</i>  |      |
| MmHPE: Human Pose Estimation Based on Point Cloud from Millimeter-Wave Radar .....  | 2325 |
| <i>Jiale Lai, Jiake Tian, Yi Zou, Xianfeng Song, Fangming Liu, Dacheng Li</i>   |      |
| The ATTUNE Model for Artificial Trust Towards Human Operators .....   | 2332 |
| <i>Giannis Petousakis, Angelo Cangelosi, Rustam Stolkin, Manolis Chiou</i>  |      |
| Exploring Diverse Augmentation Strategies for Imagined Speech Detection in Brain-Computer Interface Using Machine Learning Models ..... | 2340 |
| <i>Anand Mohan, R. S Anand</i>  |      |
| TF-Net: Triple Fusion Net for Medical Image Segmentation.....   | 2346 |
| <i>Wei Lin, Chunlei Meng, Hongda Zhang, Bowen Liu, Yi Xie, Xinyang Dong, Chun Ouyang, Zhongxue Gan</i>                                  |      |
| LANet: Luminance-Aware Network for SDRTV-To-HDRTV Translation .....   | 2354 |
| <i>Jianru Zhao, Hua Zhang</i>   |      |
| Multi-Indicator Water Quality Prediction Using Multimodal Bottleneck Fusion and ITransformer with Attention.....                        | 2367 |
| <i>Jing Bi, Yibo Li, Xuan Zhang, Haitao Yuan, Ziqi Wang, Jia Zhang, Mengchu Zhou</i>  |      |



|   |      |
|---|------|
| Temporal MLP Bridges the Gap Between Embedding and Attention for Multivariate Time Series Forecasting .....                     | 2373 |
| <i>Zhinan Xie, Qi Zheng, Yaying Zhang</i>   |      |
| Point Cloud Completion Method Assisted by Projected Image.....  | 2379 |
| <i>Shujin Lin, Zhaowen Li, Runxun Wu, Fan Zhou</i>  |      |
| Automatic Recognition of Social Engagement for Children with Autism Spectrum Disorder.....                                      | 2385 |
| <i>Xinming Wang, Xiangdong Zhang, Zhiyong Wang, Wei Nie, Hanlin Zhang, Xiu Xu, Honghai Liu</i>                                  |      |
| Harmonizing Human Insights and AI Precision: Hand in Hand for Advancing Knowledge Graph Task .....                              | 2391 |
| <i>Shurong Wang, Yufei Zhang, Xuliang Huang, Hongwei Wang</i>   |      |
| Lexicographic Multi-Objective Order Picking Optimization for Robotic Mobile Fulfillment Systems.....                            | 2398 |
| <i>Hanying Wang, Ziyang Zhao, Jiaqi Liang, Xingyang Li, Shixin Liu</i>  |      |
| An Air-Ground Cooperative Real-Time Delivery Scheme Based on Joint Scheduling.....  | 2410 |
| <i>Jie Huang, Yueheng Liu, Yue Cao, Xu Zhang, Hai Lin, Yujie Song, Zhuo Chen</i>  |      |
| A Diverse Group Trading Strategy Portfolio Optimization Algorithm Based on Network Modularity .....                             | 2416 |
| <i>Kudakwashe Chideme, Chun-Hao Chen, Tzung-Pei Hong</i>  |      |
| Fault Detection Filtering for Unmanned Surface Vehicles with Markov Switching and Random Packet Losses .....                    | 2422 |
| <i>Meng-Jie Hu, Ju H. Park, Jun Cheng</i>   |      |
| Web User Profiling Using Fuzzy Signatures and Browser Fingerprinting .....  | 2433 |
| <i>Luca Aliberti, Francesco Apicella, Giuseppe D'Aniello, Francesco Flammini, Matteo Gaeta, Simone Salzano</i>                  |      |
| MECNet: Multi-Scale Exposure-Consistency Learning Via Fourier Transform for Exposure Correction.....                            | 2440 |
| <i>Gaofei Qiao, Zhibin Zhang, Liqiang He</i>  |      |
| An Optimal Multi-Path Power Routing and Transmission Scheduling Approach for Peer-To-Peer Power Trading in Energy Internet..... | 2447 |
| <i>Neethu Maya, Narasimman Sundararajan, Suresh Sundaram</i>  |      |
| A Survey of Applications for Anomaly Detection in the IoT: Methods, New Perspectives, and Future .....                          | 2453 |
| <i>Yingxiang Wang, Rongzuo Guo, Peng Min</i>  |      |
| A Robust Method for Camera Calibration in Noisy Settings Based on Genetic Programming.....                                      | 2461 |
| <i>Ricardo S. Casado, Mario L. Tronco, Emerson C. Pedrino</i>   |      |
| DocDeshadower: Frequency-Aware Transformer for Document Shadow Removal .....  | 2468 |
| <i>Ziyang Zhou, Yingtie Lei, Xuhang Chen, Shenghong Luo, Wenjun Zhang, Chi-Man Pun, Zhen Wang</i>                               |      |
| HCU-Net: An Efficient Fully Convolutional Neural Network for Thyroid Nodules Ultrasound Image Segmentation .....                | 2474 |
| <i>Mengxi Ren, Jun Liu</i>  |      |

|  |      |
|--|------|
| Issue Title Generation: How Far Can Large Language Models Go? .....  | 2480 |
| <i>Jun Yang, Shifan Liu, Qifan He, Songcheng Xie, Zhanqi Cui</i>   |      |
| Learnable Filter with Decoupling Fusion Method for Sequential Recommendation .....   | 2486 |
| <i>Hua Long, Bingwen Huang, Jiaqiang Lu</i>  |      |
| AlpaCream: An Effective Method of Data Selection on Alpaca.....  | 2493 |
| <i>Yijie Li, Yuan Sun</i>  |      |
| Verifying Robustness of Neural Networks with Abstract Features.....  | 2501 |
| <i>Xuejian Li, Hantao Xia</i>  |      |
| Efficient PSO Coupled with a Local Search Heuristic for Radio Resource Allocation in V2X<br>Communications.....                    | 2507 |
| <i>Souhir Elleuch, Ibtissem Brahmi, Monia Hamdi, Faouzi Zarai</i>  |      |
| Joint Optimization of Recurrence Plot Encoding and CNN Model Based on Heuristic Algorithms.....                                    | 2513 |
| <i>Hongda Zhang, Zhongxue Gan, Yi Liu, Wei Lin, Bowen Liu, Chunlei Meng, Chun Ouyang</i>   |      |
| A Cross-Modal Interactive Memory Network Based on Fine-Grained Medical Feature Extraction<br>for Radiology Report Generation ..... | 2520 |
| <i>Xitong Ma, Yuansen Kuang, Lin Yuan, Cheng Tian, Yijie Zeng, Song Liu</i>  |      |
| A Novel 3D Medical Image Segmentation Model Using Improved SAM .....   | 2528 |
| <i>Yuansen Kuang, Xitong Ma, Jing Zhao, Guangchen Wang, Yijie Zeng, Song Liu</i>   |      |
| DDASR: Domain-Distance Adapted Super-Resolution Reconstruction of MR Brain Images.....   | 2535 |
| <i>Shan Cong, Kailong Cui, Yuzun Yang, Yang Zhou, Xinxin Wang, Haoran Luo, Yichi Zhang,<br/>Xiaohui Yao</i>                        |      |
| FRD-DST: A Fine-Grained Relation-Driven Model for Dialogue State Tracking .....  | 2543 |
| <i>Yukun Cao, Ming Chen, Jingjing Li, Yuanmin Liu, Tianhao Wang</i>  |      |
| Computational Modeling of Mental Health Checkup with Response-Based Characterization Using<br>a Smart Mirror .....                 | 2549 |
| <i>Taiga Noguchi, Masakazu Hirokawa, Shotaro Doki, Kenji Suzuki</i>  |      |
| Ontology-Driven Reinforcement Learning for Personalized Student Support .....  | 2555 |
| <i>Ryan Hare, Ying Tang</i>  |      |
| Fine-Grained Derivative-Free Simultaneous Optimistic Optimization with Local Gaussian Process.....                                 | 2561 |
| <i>Junhao Song, Yangwenhui Zhang, Hong Qian</i>  |      |
| UG-STNN: A Spatial-Temporal Neural Network Based on Unsupervised Graph Representation<br>Module for Traffic Flow Prediction.....   | 2575 |
| <i>Enwei Zhang, Zesheng Cheng, Tiankuan Wang, Dongwei Liu</i>  |      |
| ReMark: Reversible Lexical Substitution-Based Text Watermarking .....  | 2581 |
| <i>Ziyu Jiang, Hongxia Wang</i>  |      |
| Improving Multi-View Vehicle Identification in Complex Scenes Using Robust Deep Neural<br>Networks .....                           | 2587 |
| <i>Hong-Tian Zhao</i>  |      |
| Multimodal Mutual Learning with Online Knowledge Distillation for Dim Object Recognition in<br>Aerial Images .....                 | 2593 |
| <i>Zixing Li, Zhen Lan, Chao Yan, Xiaojia Xiang, Dengqing Tang</i>   |      |

|  |      |
|--|------|
| Real-Time Pedestrian Dead Reckoning for IoT Based Platform-Independent Positioning System .....  | 2599 |
| <i>Anh-Van Vu, Thanh-Minh Nguyen, Changmin Sung, Dongsoo Han</i>   |      |
| FedBChain: A Blockchain-Enabled Federated Learning Framework for Improving<br>DeepConvLSTM with Comparative Strategy Insights.....   | 2607 |
| <i>Gaoxuan Li, Chern Hong Lim, Qiyao Ma, Xinyu Tang, Hwa Hui Tew, Fan Ding, Xuewen Luo</i>   |      |
| Development of Smart Mask System Integrated with Alert Detection and Vital-Sign Measurement .....  | 2613 |
| <i>Wei-Lun Ting, Chun-Chieh Hsiao, Ren-Guey Lee</i>  |      |
| Visual Anomaly Detection with Self-Attention and Separate Memory Bank.....   | 2619 |
| <i>Kosaburo Hattori, Hayata Kaneko, Ryuto Ishibashi, Tomonori Izumi, Lin Meng</i>  |      |
| HyperSurf: Quadruped Robot Leg Capable of Surface Recognition with GRU and Real-To-Sim<br>Transferring .....   | 2625 |
| <i>Sergei Satssevich, Yaroslav Savotin, Danil Belov, Elizaveta Pestova, Artem Erhov, Batyr<br/>Khabibullin, Artem Bazhenov, Vyacheslav Kovalev, Aleksey Fedoseev, Dzmity Tsetserukou</i> |      |
| System for Autonomous Management of Retail Shelves Using an Omnidirectional Dual-Arm<br>Robot with a Novel Soft Gripper.....   | 2631 |
| <i>Nijil George, Somdeb Saha, Shubham Parab, Vismay Vakharia, Rolif Lima, Vighnesh Vatsal,<br/>Kaushik Das</i>   |      |
| Jam-Absorption Driving with Data Assimilation .....  | 2638 |
| <i>Siyu Li, Ryosuke Nishi, Daichi Yanagisawa, Katsuhiro Nishinari</i>  |      |
| Satellite Image and Tree Canopy Height Analysis Using Machine Learning on Google Earth<br>Engine with Carbon Stock Estimation.....   | 2644 |
| <i>Chu Kiong Loo, Huang Han Wang</i>   |      |
| Evaluation of Machine Learning Models in a Smart Water Metering System .....   | 2651 |
| <i>Marcelo Luis Walter, Alexandre Nodari, Juliano De Paulo Ribeirrol, Ramon Tramontini,<br/>Leonardo Nunes, Marcelo Eduardo Pellenz, Edson Emilio Scalabrin</i>                          |      |
| A Neighborhood Reconstruction-Based Cyber Attack Detection Method for Smart Grid Security .....  | 2657 |
| <i>Wanwan Ren, Jun Peng, Shuo Li, Rui Zhang, Jieqi Rong, Heng Li</i>   |      |
| A Multi-Lead Electrocardiogram Signal Classification Method Based on Temporal and Multi-View<br>Contrastive Learning .....   | 2663 |
| <i>Luyao Li, Hui Liu, Shuwang Zhou, Zhaoyang Liu, Minglei Shu</i>  |      |
| XWCoDe: XGBoost with Weighted Code Dependency for Requirements-To-Code Traceability<br>Link Recovery .....   | 2670 |
| <i>Zhiyuan Zou, Bangchao Wang, Yang Deng, Hongyan Wan, Zhiquan An, Yukun Cao</i>   |      |
| Robotic Crop Disease Monitoring Using Neural Network-Based Prediction and Weighted Path<br>Planning.....   | 2676 |
| <i>Jacob Sutton, Ayan Dutta, O. Patrick Kreidl, Ladislau Bölöni, Swapnoneel Roy</i>  |      |
| Optimal Barcode Representation for NLP Embeddings.....   | 2682 |
| <i>Soumen Sinha, Azam Asilian Bidgoli, Shahryar Rahnamayan</i>   |      |
| Disparity Map-Crack Detection: Combining Disparity Map Feature into Binary Segmentation for<br>Accurate Crack Detection.....   | 2689 |
| <i>Yang Liu, Genji Yuan, Jianbo Li</i>   |      |

|   |      |
|---|------|
| Adaptive Graph Spatial Temporal Fourier-Enhanced Transformer Networks for Traffic Prediction .....  | 2695 |
| <i>Jun Hu, Xiaolong He</i>  |      |
| Multi-Objective Evolutionary Neural Architecture Search for Liquid State Machine .....  | 2701 |
| <i>Sida Xin, Renzhi Chen, Xun Xiao, Yuan Li, Lei Wang</i>   |      |
| Semantic Consistency Based Dual-Asymmetric Discrete Online Hashing for Multi-View Streaming<br>Data Retrieval.....  | 2707 |
| <i>Jing Chen, Yunxiao Zu, Bin Hou, Xinzhu Sang, Meiru Liu</i>   |      |
| EMPA-YOLO:A Lightweight Real-Time Weed Detection Method Suitable for Natural.....   | 2713 |
| <i>Yuzhe Wang, Jiahao Chen, Xiaodong Duan, Zhuohui Li</i>   |      |
| A Multi-Stream Structure-Enhanced Network for Mesh Denoising.....   | 2721 |
| <i>Yutian Yang, Lingyu Liang, Jie Yan, Yong Xu</i>  |      |
| Object Detection Approaches to Identifying Hand Images with High Forensic Values .....  | 2727 |
| <i>Thanh Thi Nguyen, Campbell Wilson, Imad Khan, Janis Dalins</i>   |      |
| Low-Rank Tensor-Based Two-Dimensional Projection Learning for Feature Extraction .....  | 2735 |
| <i>Xiaojia Liang, Yue Wu, Xiaolin Xiao</i>  |      |
| EE-MVSNet: Deep Learning-Based Cascaded High-Precision Multi-View Stereo Network with<br>ECA & EVC .....  | 2741 |
| <i>Ziyi Zhang, Changfei Kong, Jiapa Mao, Xu Cheng, Sixian Chan</i>  |      |
| A Classification Method for “Kawaii” Images Using Semantic Interpretation .....   | 2747 |
| <i>Daiki Komiya, Masanori Akiyoshi</i>  |      |
| Dual-Domain Attention Based Adaptive Graph Convolutional Network for EEG Emotion<br>Recognition .....   | 2752 |
| <i>Tie Xu, Tong Zhang, Bianna Chen, C. L. Philip Chen</i>   |      |
| Do Feature Representations from Different Language Models Affect Accuracy of Brain Encoding<br>Models' Predictions?.....  | 2766 |
| <i>Muxuan Liu, Ichiro Kobayashi</i>   |      |
| S-ADMM: Optimizing Machine Learning on Imbalanced Datasets Based on ADMM.....   | 2778 |
| <i>Yixiang Shen, Yongmei Lei, Qinnan Qiu</i>  |      |
| A Boosting Framework for Financial Distress Prediction Based on Imbalanced Data .....   | 2786 |
| <i>Dan Zhao</i>   |      |
| Optimising Horizons in Model Predictive Control for Motion Cueing Algorithms Using<br>Reinforcement Learning .....  | 2793 |
| <i>Sari Al-Serri, Mohammad Reza Chalak Qazani, Shady Mohamed, Adetokunbo Arogbonlo,<br/>Mohammed Al-Ashmori, Chee Peng Lim, Saeid Nahavandi, Houshyar Asadi</i> |      |
| Hybrid Quantum-Inspired Evolutionary Neural Networks for Intrusion Detection System.....  | 2801 |
| <i>Shu-Yu Kuo, Jyun-Yi Shen, Chia-Lin Liu, Yao-Hsin Chou</i>  |      |
| Fine-Grained Speech Sentiment Analysis in Chinese Psychological Support Hotlines Based on<br>Large-Scale Pre-Trained Model.....                                 | 2807 |
| <i>Zhonglong Chen, Changwei Song, Yining Chen, Jianqiang Li, Guanghui Fu, Yongsheng Tong,<br/>Qing Zhao</i>   |      |

|   |      |
|---|------|
| HMO: Host Memory Optimization for Model Inference Acceleration on Edge Devices .....  | 2813 |
| <i>Chaoxiong Yi, Songlei Jian, Yusong Tan, Yusen Zhang</i>  |      |
| Contrastive Learning-Based User Identification with Limited Data on Smart Textiles .....  | 2820 |
| <i>Yunkang Zhang, Ziyu Wu, Zhen Liang, Fangting Xie, Quan Wan, Mingjie Zhao, Xiaohui Cai</i>  |      |
| A Joint Multi-Dimensional Fine-Grained Pruning Method for Deep Neural Network .....   | 2826 |
| <i>Cong Chen, Tong Zhang, Kun Zhu</i>   |      |
| PSA-Swin Transformer: Image Classification on Small-Scale Datasets* .....   | 2832 |
| <i>Chao Shao, Shaochen Jiang, Yongming Li</i>   |      |
| Deep Reinforcement Learning-Based Strategies for Truck Platooning at Highway on-Ramps .....   | 2838 |
| <i>An Wang, Liang Qi, Wenjing Luan, Kun Liu, Xiwang Guo</i>   |      |
| Modeling Hydrodynamic Diffusion Processes Using Spatio-Temporal Deep Neural Networks with<br>Environmental Physical-Coupled Constraints ..... | 2844 |
| <i>Lei Jia, Neil Yen, Yan Pei</i>   |      |
| Precise Knowledge Enhancement Via CBR Framework for Empathetic Dialogue Generation .....  | 2850 |
| <i>Qingmeng Zhu, Ziyin Gu, Hao He, Zhipeng Yu</i>   |      |
| Two-Stage Multi-Modal Prompt Tuning for Few-Shot Sentiment Analysis .....   | 2856 |
| <i>Jiaqi Gu, Hao Niu</i>  |      |
| Bi-VLA: Vision-Language-Action Model-Based System for Bimanual Robotic Dexterous<br>Manipulations .....                                       | 2864 |
| <i>Koffivi Fidèle Gbagbe, Miguel Altamirano Cabrera, Ali Alabbas, Oussama Alyunes, Artem<br/>Lykov, Dzmitry Tsetserukou</i>                   |      |
| Self-Attention Residual Connection and Graph Neural Hawkes Bilayer Model for Session-Based<br>Recommendation .....                            | 2870 |
| <i>Huan Li, Senpeng Chen, Wenhong Wei, Ani Dong, Qingxia Li</i>   |      |
| Investigation of Correspondence Between Learner Sensory Processing Sensitivity and Different<br>Avatars in Online Lectures .....              | 2876 |
| <i>Sean Mirai Riese, Koichi Ota, Wen Gu, Shinobu Hasegawa</i>   |      |
| Teacher-To-Teacher: Harmonizing Dual Expertise into a Unified Speech Emotion Model .....  | 2882 |
| <i>Sattaya Singkul, Sumeth Yuenyong, Konlakorn Wongpatikaseree</i>  |      |
| Knowledge-Data Fusion Based Source-Free Semi-Supervised Domain Adaptation for Seizure<br>Subtype Classification .....                         | 2888 |
| <i>Ruimin Peng, Jiayu An, Dongrui Wu</i>  |      |
| Protecting Multiple Types of Privacy Simultaneously in EEG-Based Brain-Computer Interfaces .....  | 2894 |
| <i>Lubin Meng, Xue Jiang, Tianwang Jia, Dongrui Wu</i>  |      |
| Exploring Spatial Information for EEG-Based User Authentication: A ShallowNet Approach .....  | 2900 |
| <i>Chaehyun Lee, Sunghyun Kang, Heegyu Kim, Sung Chan Jun</i>   |      |
| EEG-TCF2Net: A Novel Deep Interval Type-2 Fuzzy Model for Decoding SSVEP in Brain-<br>Computer Interfaces .....                               | 2906 |
| <i>Marcelo Contreras, Christian Flores, Javier Andreu-Perez</i>   |      |

|   |      |
|---|------|
| An Unsupervised Clustering and Markov Chain-Based Approach for Assessing Performance During Online User Training for Mental Imagery EEG-BCIs..... | 2912 |
| <i>Nicolas Ivanov, Tom Chau</i>   |      |
| Dual Kalman Filter Based on Maximum Correntropy Criterion for Adaptive Decoding in Brain-Machine Interface.....                                   | 2918 |
| <i>Yuxuan Cai, Xi Liu</i>   |      |
| Accelerometer-Based Pushing Location Feedback Mechanism for CPR Training .....  | 2924 |
| <i>Chien-Yu Chao, Chun-Han Yen, Wen-Yen Lin</i>   |      |
| Stackelberg-Nash Game-Theoretic Formation Path Planning for Multi-Agent Interactions.....   | 2929 |
| <i>Xuqi Su, Zhaohui Yang, Fengling Huang, Pingfang Zhou, Jianguo Chen, Yuhao Jing</i>   |      |
| Teleoperated Omni-Directional Dual Arm Mobile Manipulation Robotic System with Shared Control for Retail Store .....                              | 2935 |
| <i>Rolif Lima, Somdeb Saha, Nijil George, Vismay Vakharia, Shubham Parab, Sahil Gaonkar, Vighnesh Vatsal, Kaushik Das</i>                         |      |
| MARLander: A Local Path Planning for Drone Swarms Using Multiagent Deep Reinforcement Learning .....  | 2943 |
| <i>Demetros Aschu, Robinroy Peter, Sausar Karaf, Aleksey Fedoseev, Dzmitry Tsetserukou</i>  |      |
| Pointing Frame Estimation with Audio-Visual Time Series Data for Daily Life Service Robots .....  | 2949 |
| <i>Hikaru Nakagawa, Shoichi Hasegawa, Yoshinobu Hagiwara, Akira Taniguchi, Tadahiro Taniguchi</i>   |      |
| MOEA/D with Adaptive Lévy Flight Operator for Stereoscopic Warehouse Management Systems.....  | 2957 |
| <i>Yanmei Li, Xinran Qu, Yongting Tao, Shiduo Ning, Yanzhou Chen, Yanjun Shi</i>  |      |
| A Distributed Method for State of Charge Estimation for Supercapacitor Pack .....   | 2963 |
| <i>Heng Li, Yulin Zhang, Ren Zhu, Shilong Zhuo, Hui Peng, Wanwan Ren, Rui Zhang</i>   |      |
| Time-Domain-Agnostic Contactless Fingerprinting Localization Via LoRa Frequency-Hopping.....  | 2969 |
| <i>Yijing Lu, Tao Lin, Rixia Lan, Yuqing Yin, Pengpeng Chen</i>   |      |
| Leak Detection and Localization in Water Distribution Networks Via Online Change-Point Detection and Leak Sensitivity Modeling .....              | 2975 |
| <i>Hongyu Liu, Jie Jiang, Xinchun Zhang, Yulong Ding, Lili Yang, Shuang-Hua Yang</i>  |      |
| Rapid Object Detection and Localization Through R-Tree Based Multi-Sensor Fusion for Inspection Robots .....                                      | 2981 |
| <i>Dengshuo Wang, Dongjie Huo, Dong Zhang</i>   |      |
| NO-GAT: Neighbor Overlay-Induced Graph Attention Network.....   | 2987 |
| <i>Tiqiao Wei, Ye Yuan</i>  |      |
| Exploring Automated Feature Engineering for Energy Consumption Forecasting with AutoML.....   | 2993 |
| <i>Nasser Alkhulaifi, Alexander L. Bowler, Direnc Pekaslan, Isaac Triguero, Nicholas J. Watson</i>  |      |
| SAM-Wav2lip++: Enhancing Behavioral Realism in Synthetic Agents Through Audio-Driven Speech and Action Refinement.....                            | 2999 |
| <i>Bihui Yu, Dawei Liu, Huiyang Shi, Guiyong Chang, Jingxuan Wei, Linzhuang Sun, Songtao Tian, Liping Bu</i>                                      |      |
| MHN-GCN: A Cancer Driver Gene Prediction Method for Multi-Omics Data .....  | 3007 |
| <i>Dinglun Wang, Xuenan Lv, Xuedong Zheng</i>   |      |

|   |      |
|---|------|
| Integrating Graph Neural Networks with Multi-Head Attention for Multi-Task Learning in Session-Based Recommendation .....                           | 3013 |
| <i>Hua Long, Jiaqiang Lu, Bingwen Huang</i>   |      |
| Spatial-Temporal Motion Compensation for Learned Video Compression.....   | 3019 |
| <i>Qian Huang, Wenting Liu, Hao Lu, Yiming Wang</i>   |      |
| Exploring Social Decision Models Through Quantum Fuzzy Approaches .....   | 3025 |
| <i>Cecilia Botelho, Juliano Buss, Helida Santos, Giancarlo Lucca, Anderson Cruz, Adenauer Yamin, Renata Reiser</i>                                  |      |
| Medical Multi-Choice Question Answering with Retrieval Augmented Language Models.....   | 3031 |
| <i>Yujie Liu</i>  |      |
| Detection Method of Teaching Discourse Richness Based on Prompt Learning and Pre-Trained Language Model.....  | 3037 |
| <i>Shuhua Liu, Yiwei Guo, Shihao Yang, Fengqin Yang</i>   |      |
| Optimizing Click-Through Rate Prediction: A Model Utilizing Multi-Attention Fusion Hashing Algorithms.....  | 3042 |
| <i>Xinge Li, Fayu Wang, Hongtao Chen</i>  |      |
| JTEA: Implementing Semi-Supervised Entity Alignment Using Joint Teaching Strategies .....   | 3050 |
| <i>Kai Lu, Jing Zhao, Lichao Ding, Zenghao Hao</i>  |      |
| CASSTIMP: Cascaded Architecture for Symptom Status Tracking with Inquiry-Aware Attention and Multi-Perception Pooling.....                          | 3056 |
| <i>Haowen Yu, Mingcheng Li, Lihua Zhang</i>   |      |
| SMGNN: Semantic Multi-Connected Graph Neural Network for Traffic Flow Prediction .....  | 3062 |
| <i>Xin-Wei Yao, Wei-Cai Li, Xiang-Yang Li, Xiao-Li Zhang, Zhong-Hua Yao, Qiang Li</i>   |      |
| User Authentication Using Typing Habits in Virtual Reality.....   | 3068 |
| <i>Li Chen, Hengxin Chen</i>  |      |
| Fractal: Facilitating Robust Encrypted Traffic Classification Using Data Augmentation and Contrastive Learning .....                                | 3076 |
| <i>Yitong Cai, Shu Li, Hongfei Zhang, Yuyi Liu, Meijie Du, Binxing Fang</i>   |      |
| Enhancing Sentiment Analysis in E-Commerce Through the Integration of GPT-3.5 Embeddings and BiLSTM Networks .....                                  | 3084 |
| <i>Mengling Wang, Qun Hou, Ao Peng</i>  |      |
| SMGC-SBERT: A Multi-Feature Fusion Chinese Short Text Similarity Computation Model Based on Optimised SBERT .....                                   | 3091 |
| <i>Shuo Zhao, Qiliang Gu, Jianqiang Zhang, Gongpeng Song, Qin Lu</i>  |      |
| MFFLEN: Multi-Label Text Classification Based on Multi-Feature Fusion and Label Embedding.....  | 3097 |
| <i>Qiliang Gu, Shuo Zhao, Jianqiang Zhang, Gongpeng Song, Qin Lu</i>  |      |
| IRS-Enabled Interference Elimination and Fairness Enhancement in D2D Communication Networks .....   | 3104 |
| <i>Xin Dai, Xin Chen, Libo Jiao, Bingjie Han, Yizheng Pan, Tong Yin</i>   |      |
| A Novel Federated Learning System with Privacy Protection and Blockchain Consensus Incentive Mechanisms in Cloud-Edge Collaboration Scenarios ..... | 3111 |
| <i>Longyi Liu, Yi Hu, Yanqing Zhao, Xiyang Zhang, Yongze Ma, Guiyong Chang</i>  |      |

|  |      |
|--|------|
| Enhancing Training Stability in Generative Adversarial Networks Via Penalty Gradient Normalization.....  | 3119 |
| <i>Tian Xia, Qinglang Su</i>   |      |
| Dynamic Attention Fusion Decoder for Speech Recognition.....   | 3125 |
| <i>Jiang Zhang, Liejun Wang, Miaomiao Xu</i>   |      |
| Concrete Structural Crack Damage Classification Using Nonlinear Dimension Reduction and Broad Learning System .....                                      | 3133 |
| <i>Bingshu Wang, Jia Lin, Xiaodong Zhuang, Guanghui Zhang, C. L. Philip Chen</i>   |      |
| EFFDet: A Crack Detector Via Boundary Preservation and Cross-Attention Integration .....   | 3138 |
| <i>Linhua Gao, Libo Weng, Fei Gao</i>  |      |
| Adaptive Domain-Enhanced Transfer Learning for Welding Defect Classification.....  | 3152 |
| <i>Dan Dai, Anand Mohan, Pasquale Franciosa, Tong Zhang, C. L. Philip Chen, Dariusz Ceglarek</i>   |      |
| Boosting MLPs on Graphs Via Distillation in Resource-Constrained Environment.....  | 3159 |
| <i>Zhihui Yang, Zhihao Qu, Ninghui Jia, Shihong Hu, Baoliu Ye, Deze Zeng</i>   |      |
| RobustLayoutLM: Leveraging Optimized Layout with Additional Modalities for Improved Document Understanding.....  | 3167 |
| <i>Bowen Wang, Xiao Wei</i>  |      |
| MDTF: Multimodal Rumor Detection with Dual Augmentation at Textual and Feature Levels.....   | 3175 |
| <i>Shun Mao, Jie Sui</i>   |      |
| A Battery-Powered Wild Animal Tracking Device Using a PTZ Camera and Deep Learning.....  | 3181 |
| <i>Shogo Semba, Hiroshi Saito, Yoichi Tomioka, Yukihide Kohira</i>   |      |
| CSTformer: Cross Spatio-Temporal Transformer for Multivariate Time Series Forecasting.....   | 3187 |
| <i>Tao Cai, Haixiang Wu, Dejiao Niu, Lei Li</i>  |      |
| Reinforcement-Based Collision Avoidance Strategy for Autonomous Vehicles to Multiple Two-Wheelers at Un-Signalized Obstructed Intersections .....        | 3193 |
| <i>Delei Zhang, Liang Qi, Wenjing Luan, Ruiping Yang, Kun Liu</i>  |      |
| Deep Reinforcement Learning for Collaborative Inference in Local-Serverless Edge Computing.....  | 3199 |
| <i>Dehua Chen, Qinghe Dong, Qian He, Bingcheng Jiang</i>   |      |
| IoT-Based Smart Home System Integrated with Deep Learning on the FPGA Development Board .....  | 3207 |
| <i>Guo-Ming Sung, Fan-Ning Kuo, Chih-Yu Lin, Chwan-Lu Tseng, Jen-Hsiang Chou, Li-Fen Tung</i>  |      |
| Channel Attention Network for Feature Fusion of Ultrasonic and IMU Signals in Cross-Subject Gait Recognition.....  | 3231 |
| <i>Xujia Huang, Zixiang Zhou, Xinglong Xu, Zhiyong Wang</i>  |      |
| Development of a Support System for Situation Awareness and Decision of Beginner Navigators Using Voice Information .....                                | 3243 |
| <i>Chihiro Nishizaki, Shunsuke Hamanaka</i>  |      |
| The Proxemic Influence on Trust in Triadic Human-Robot Interaction: Insights for Tele-Operative Sonography Assessment in Human-In-The-Loop Systems ..... | 3249 |
| <i>N. G. Toomey, P. Kebria, D. Nahavandi, D. Skvarc, S. Mohamed, G. Rahimzadeh</i>   |      |



|   |      |
|---|------|
| Optimizing Motion Completion with Unconstrained Human Skeleton Structure Learning.....  | 3255 |
| <i>Tianjia He, Tianyuan Yang, Shin'Ichi Konomi</i>  |      |
| Exploring a Fatigue Compensation Approach for Joint Angle Regression Through sEMG and NIRS.....   | 3263 |
| <i>Yan Wang, Ruikai Cao, Jiahao Lyu, Yixuan Sheng</i>   |      |
| Risk-Aware Shared Control for Teleoperation of Automated Vehicles in Dynamic Environments.....  | 3269 |
| <i>David Brecht, Frank Diermeyer</i>  |      |
| Development of a Navigation System Using MY VISION for Visually Impaired People – a Method<br>to Guide the Direction of Travel.....         | 3275 |
| <i>Yuki Koike, Yui Tanjo</i>  |      |
| A Bilayered Decomposition Technique for Handling Complex Constrained Multi-Objective<br>Optimization Problems.....                          | 3281 |
| <i>Yusuke Yasuda, Kenichi Tamura, Keiichiro Yasuda</i>  |      |
| Multi-Scale HSV Color Feature Embedding for High-Fidelity NIR-To-RGB Spectrum Translation.....  | 3287 |
| <i>Huiyu Zhai, Mo Chen, Xingxing Yang, Guosheng Kang</i>  |      |
| Deep Spectral Clustering Via Joint Spectral Embedding and Kmeans.....   | 3293 |
| <i>Wengang Guo, Wei Ye</i>  |      |
| Multi-Volumetric Feature-Based Brain Age Prediction Using sMRI and Graph Neural Networks .....  | 3300 |
| <i>Suraj Kumar, Cota Navin Gupta</i>  |      |
| A No Reference Deep Quality Assessment Index for 3D Colored Meshes .....  | 3305 |
| <i>Zaineb Ibork, Anass Nouri, Olivier Lézoray, Christophe Charrier, Raja Touahni</i>  |      |
| 3D Cellular Segmentation of Live Embryos Via Topologically and Biologically Boundary-Aware<br>Semi-Supervised Learning .....                | 3312 |
| <i>Zelin Li, Zhaoke Huang, Hong Yan</i>   |      |
| Neural Operator-Based Framework for Time Efficient Denoising of Displacement Fields in<br>Ultrasound Elastography .....                     | 3318 |
| <i>Yihong Zhu, Bo Peng</i>  |      |
| PSAM: Prompt-Based Segment Anything Model Adaption for Medical Image Segmentation .....   | 3324 |
| <i>Chengyi Wen, Lianghua He</i>   |      |
| Vision Transformer Based Hash Coding for Efficient Image and Audio Retrieval with Global and<br>Local Equilibrium Distance Constraints..... | 3330 |
| <i>Ye Liu, Yan Pan, Jian Yin</i>  |      |
| Discriminative Visual-Semantic Collaborative Online Decomposition Hashing for Streaming Image<br>Data Retrieval.....                        | 3336 |
| <i>Jing Chen, Yunxiao Zu, Weihai Li, Xinzhu Sang, Meiru Liu, Mengying Xu</i>  |      |
| Can Students Understand AI Decisions Based on Variables Extracted Via AutoML?.....  | 3342 |
| <i>Liang Tang, Nigel Bosch</i>  |      |
| A Digital Twin-Based Distributed Method for the SOC Estimation of Li-Ion Battery Pack.....  | 3350 |
| <i>Heng Li, Shilong Zhuo, Ren Zhu, Yulin Zhang, Hui Peng, Wanwan Ren, Rui Zhang</i>   |      |
| Graph-Based Ensemble Learning for Enhanced Fault Localization in Microservices .....  | 3356 |
| <i>Ruibo Chen, Fang Peng, Xin Ji, Nan Xiang, Yihua Lou, Kui Zhang, Yanjun Pu, Wenjun Wu</i>   |      |

|  |      |
|--|------|
| Power Asymmetry in Basic Hierarchical Graph Model for Conflict Resolution.....   | 3363 |
| <i>Hui Xie, Bingfeng Ge, Yuming Huang, Zihui Liu, Zeqiang Hou, Wanying Wei</i>   |      |
| Optimization of Post-Disaster Road Network Repair Strategy Considering Road Recovery Level .....   | 3370 |
| <i>Zhiyuan Sun, Chen Mu, Shumei Liu, Jiapei Wang, Yuyang Zou</i>   |      |
| HemSeg-200: A Voxel-Annotated Dataset for Intracerebral Hemorrhages Segmentation in Brain CT Scans.....  | 3376 |
| <i>Changwei Song, Qing Zhao, Jianqiang Li, Xin Yue, Ruoyun Gao, Zhaoxuan Wang, An Gao, Guanghui Fu</i>   |      |
| Protein-Protein Interaction Prediction Models Based on Graph Neural Networks .....   | 3378 |
| <i>Yapeng Li, Jie Yang, Yuwen Chen</i>   |      |
| Diverse Transformation-Augmented Graph Tensor Convolutional Network for Dynamic Graph Representation Learning.....                                     | 3384 |
| <i>Ling Wang, Yixiang Huang, Hao Wu</i>  |      |
| An Algorithmic Framework for Constructing Multiple Decision Trees by Evaluating Their Combination Performance Throughout the Construction Process..... | 3390 |
| <i>Keito Tajima, Naoki Ichijo, Yuta Nakahara, Koshi Shimada, Toshiyasu Mathushima</i>  |      |
| Data-Driven Dynamic Event-Triggered Sliding-Mode Heading Control for Unmanned Surface Vehicles with Uncertainties .....                                | 3397 |
| <i>Huarong Zhao, Jinjun Shan, Xing Li, Hongnian Yu</i>   |      |
| BINN-DT: Towards Better Interpretability of Multidimensional Decision Rules Via Bivariate Nonlinear Node Decision Trees.....                           | 3403 |
| <i>Satoshi Arai, Shinichi Shirakawa, Tomoharu Nagao</i>  |      |
| MVOD: A Multi-View Outlier Detection Method with Single-Feature View Augmentation .....  | 3409 |
| <i>Zhaowei Zhu, Zhu Chen, Ning Gui, Jiawei Xu, Yun Lei, Dongdong Li</i>  |      |
| Synthesis of Decoherence-Free Modes in Linear Quantum Passive Systems Via Robust Pole Placement .....  | 3422 |
| <i>Zibo Miao, Yu Pan, Qing Gao</i>   |      |
| Unbridled Icarus: A Survey of the Potential Perils of Image Inputs in Multimodal Large Language Model Security .....                                   | 3428 |
| <i>Yihe Fan, Yuxin Cao, Ziyu Zhao, Ziyao Liu, Shaofeng Li</i>  |      |
| Influence Distribution for Misinformation Containment Under Competitive Activation Models.....   | 3434 |
| <i>Ming Gu, Wei-Neng Chen, Xiao-Min Hu, Sang-Woon Jeon</i>   |      |
| Dual-GTF: Enhancing Community Detection with Dual-Scale Game Theoretic Framework .....   | 3441 |
| <i>Haodong Shi, Zhao Kang, Ke Yan, Sicong Liu, Yichen Xin</i>  |      |
| SEMDR: A Semantic-Aware Dual Encoder Model for Legal Judgment Prediction with Legal Clue Tracing.....  | 3447 |
| <i>Pengjie Liu, Wang Zhang, Yulong Ding, Xuefeng Zhang, Shuang-Hua Yang</i>  |      |
| Pre-Training and Fine-Tuning for Efficient Routing in Opportunistic Networks.....  | 3454 |
| <i>Jia Hao, Xiaorui Wu, Winston K. G. Seah, Feng Zhang, Gang Xu</i>  |      |
| Link Prediction for Dynamic Weighted Graph Via Adaptive Nonnegative Tensor CP Decomposition .....  | 3462 |
| <i>Hao Wu, Weiling Li</i>  |      |

|   |      |
|---|------|
| Immediate After-Effects of Maintaining Light Touch Using Electrical Muscle Stimulation to Index Finger Extensor Muscles on Postural Control * ..... | 3467 |
| <i>Masato Shindo, Ryosuke Aoki</i>  |      |
| Posture Prediction in Response to Seat Angle Change with Smart Chair .....  | 3473 |
| <i>Tsubasa Esumi, Noriko Takemura</i>   |      |
| Sign Language Recognition and Translation Methods Promote Sign Language Education: A Review.....  | 3479 |
| <i>Jingchen Zou, Jianqiang Li, Jing Tang, Yuning Huang, Shujie Ding, Xi Xu</i>  |      |
| Terrain Modeling for Control of Lower Limb Protheses and Exoskeletons Using Low-Cost Wearable Sensors.....  | 3485 |
| <i>Yunfang Yang, Jianda Han, Weiguang Huo</i>   |      |
| Adaptive Mission Planning: Evaluation of a Hybrid Cognitive Mixed-Initiative Planning Assistant in Manned-Unmanned Teaming Operations.....          | 3492 |
| <i>Siegfried Maier, Jane Jean Kiam, Axel Schulte</i>  |      |
| Using Situational Awareness and Situative Criticality for Adaptive Planning Assistance in MUM-T Missions .....                                      | 3500 |
| <i>Julian Bautz, Simon Schwerd, Axel Schulte</i>  |      |
| Multi-User Computation Offloading in Mobile Edge Computing with Hybrid Whale Optimization .....   | 3508 |
| <i>Jing Bil, Ning Li, Haitao Yuan, Jia Zhang, Mengchu Zhou</i>  |      |
| Energy and Time-Optimized Task Scheduling with Simulated-Annealing-Based Firefly Algorithm in Hybrid Cloud Edge Computing.....                      | 3514 |
| <i>Jing Bi, Xinmin Zhou, Haitao Yuan, Jia Zhang, Mengchu Zhou</i>   |      |
| Unified Industrial Cyber-Physical Systems Modelling and Performance Analysis Under Cyber-To-Physical Attacks .....                                  | 3520 |
| <i>Yifan Wang, Chenchen Zhou, Yi Cao, Xuefeng Zhang, Shuang-Hua Yang</i>  |      |
| MICABAC: Multidimensional Industrial Control Attribute-Based Access Control Model.....  | 3528 |
| <i>Hangyu Wang, Fei Lv, Yuqi Chen, Shuaizong Si, Zhiwen Pan, Degang Sun, Limin Sun</i>  |      |
| A Compact-Dynamic Graph Convolutional Network for Spatiotemporal Signal Recovery .....  | 3535 |
| <i>Pengcheng Gao, Zicheng Gao, Ye Yuan</i>  |      |
| Transformer-Based Model Sea Temperature and Salinity Prediction Using Satellite Remote Sensing and Argo Data Fusion.....                            | 3541 |
| <i>Yan-Jhen Liao, Cheng-Han Zhan, Yue-Shan Chang</i>  |      |
| Mobility and Privacy-Aware Computation Offloading with Energy Harvesting in MEC-Enabled Networks .....  | 3553 |
| <i>Jing Bi, Siyu Niu, Haitao Yuan, Jiahui Zhai, Jia Zhang, Mengchu Zhou</i>   |      |
| Water Quality Anomaly Detection with Dual Sliding Windows and Convolutional LSTM .....  | 3559 |
| <i>Jing Bi, Ming Yuan, Haitao Yuan, Ziqi Wang, Junfei Qiao</i>  |      |
| Research on Urban Metro Network Recovery Strategy Based on Resilience Theory: A Case Study of Qingdao Metro Network .....                           | 3565 |
| <i>Zhiguo Shao, Jie Chen, Li Mengdi, Hongxia Tang</i>   |      |

|   |      |
|---|------|
| Graph Attention Transformer with Dilated Causal Convolution and Laplacian Eigenvectors for Long-Term Water Quality Prediction ..... | 3571 |
| <i>Jing Bi, Danqing Chen, Haitao Yuan</i>   |      |
| MDS-GNN: Mutual Dual-Stream Graph Neural Network on Incomplete Graphs.....  | 3577 |
| <i>Peng Yuan, Peng Tang</i>   |      |
| Collaborative Resource Allocation for Blockchain-Enabled Internet of Things with Multi-Agent Deep Reinforcement Learning.....       | 3583 |
| <i>Xinyu Lu, Jianxiong Wan, Leixiao Li, Chuyi Liu, Xiaowei Si</i>   |      |
| BSS-CFFMA: Cross-Domain Feature Fusion and Multi-Attention Speech Enhancement Network Based on Self-Supervised Embedding*.....      | 3589 |
| <i>Alimjan Mattursun, Liejun Wang, Yinfeng Yu</i>   |      |
| EK-CPSG: Enhancing Confusing Charge Prediction with Criminal Charge Definition .....  | 3595 |
| <i>Yifei Zhang, Rina Sa, Yanling Li, Fengpei Ge, Haiqing Yu, Sukun Wang</i>   |      |
| Fusion Data on Fuzzy Modality: From Algebraic Interpretations to Quantum Simulations Via Qiskit Platform .....                      | 3602 |
| <i>Juliano Buss, Bruna Novack, Cecilia Botelho, Helida Santos, Giancarlo Lucca, Anderson Cruz, Adenauer Yamin, Renata Reiser</i>    |      |
| HDD4DBP: A Large-Scale Multi-Modal Benchmark on Driving Behavior Prediction.....  | 3608 |
| <i>Qinghui Dong, Zhang Zhang, Yubo Chang, Wentao Chen, Liang Wang</i>   |      |
| CE:Knowledge Tracking Model Uncertainty Assessment Method Under Trusted Artificial Intelligence .....                               | 3616 |
| <i>Jiping Bai, Bo Kang, Kexin Hu, Qi Zheng, Xiaodong Wang</i>   |      |
| DialogNTM: Context Reconstruction in Multi-Turn Dialogue Generation Using Neural Turing Machines .....                              | 3624 |
| <i>Haohao Zhao, Meiling Liu, Jiyun Zhou, Kaiquan Fu</i>   |      |
| Content Popularity Prediction in Edge Computing Networks Based on Elastic Federated Learning.....                                   | 3630 |
| <i>Shaomei Lv, Jipeng Zhou</i>  |      |
| Understanding Driving Risks Via Prompt Learning.....  | 3637 |
| <i>Yubo Chang, Fan Lyu, Zhang Zhang, Liang Wang</i>   |      |
| Innovating Educational Assessment: A Hybrid TCN-LSTM Model for Knowledge Tracing .....  | 3643 |
| <i>Siyu Zheng, Qingyun Xiong, Yutong Li, Tianli Han, Junqi Guo</i>  |      |
| MIG: Addressing the Cold-Start Problem in Task Recommendations Through Enhanced Meta Embeddings .....                               | 3650 |
| <i>Zhichao Wang, Yixuan Ma</i>  |      |
| Confidence Elicitation Improves Selective Generation in Black-Box Large Language Models.....  | 3658 |
| <i>Sha Liu, Zhaojuan Yue, Jun Li</i>  |      |
| ART-Net: An Attention-Based Hybrid ResNet-Transformer Network for 12-Lead ECG Signal Classification* .....                          | 3664 |
| <i>Kun Liu, Ruiping Yang, Liang Qi, Wenjing Luan, Zhen Zhang</i>  |      |
| BTVD-BERT: A Bilingual Domain-Adaptation Pre-Trained Model for Textural Vulnerability Descriptions.....                             | 3671 |
| <i>Ziyuan Wang, Xiaoyan Liang, Ruizhong Du, Xin Zhou</i>  |      |

|   |      |
|---|------|
| Distinguishic: Distinguishing Synthesized Music from Human.....   | 3677 |
| <i>Zi-Qian Yong, Shu-Min Leong, Sailaja Rajanala, Arghya Pal, Raphaël C.-W. Phan</i>  |      |
| A Novel Reinforcement Learning Multi-Objective Community Detection Algorithm with<br>\$epsilon\$-Gradient-Greedy Strategy.....  | 3683 |
| <i>Wenhong Wei, Yi Meng, Qingxia Li</i>   |      |
| DOARS: Dynamic Objects Aware RGB-D SLAM with Neural Rendering.....  | 3689 |
| <i>Chao Li, Chenpeng Yao, Chengju Liu, Qijun Chen</i>   |      |
| DLE: Document Illumination Correction with Dynamic Light Estimation.....  | 3701 |
| <i>Jiahao Quan, Hailing Wang, Chunwei Wu, Guitao Cao</i>  |      |
| Towards 3D-Denser Ultrasound Image Simulation from 2D CT-Scan for Ultrasound-Guided<br>Percutaneous Nephrolithotomy Training.....   | 3708 |
| <i>Sathiyamoorthy Selladurai, Ben Sainsbury, James Watterson, Rebecca Hibbert, Anila<br/>Satheesh B, Arun K. Thittai, Carlos Rossa</i>  |      |
| FP-GCN: A Novel Feature Pyramid Graph Convolutional Network for Skeleton-Based Action<br>Recognition .....  | 3715 |
| <i>Chengyuan Ke, Sheng Liu, Zhenghao Ke, Yuan Feng</i>  |      |
| Augmenting Particle Swarm Optimization with Simulated Annealing and Dimensional Learning for<br>UAVs Path Planning.....   | 3721 |
| <i>Jie Wei, Yuhui Zhang, Wenhong Wei</i>  |      |
| An Inverse Modeling Constrained Multi-Objective Evolutionary Algorithm Based on<br>Decomposition.....   | 3727 |
| <i>Lucas R. C. Farias, Aluizio F. R. Araújo</i>   |      |
| An Evolutionary Framework with Improved Variance-Stabilized Multi-Objective Proximal Policy<br>Optimization and NSGA-II .....   | 3733 |
| <i>Jing Bi, Caiheng Yue, Haitao Yuan, Jiahui Zhai, Jia Zhang, Mengchu Zhou</i>  |      |
| Feature Selection Method Based on an Improved PSO Algorithm with Multilayered Update<br>Strategies .....  | 3739 |
| <i>Feng Cao, Zheng Lu, Deyu Li, Jianxing Zheng</i>  |      |
| Farmland Segmentation and Multiple Agricultural Machines Cooperative Scheduling Method<br>Under Sudden Disasters .....  | 3745 |
| <i>Guiping Dou, Liruizhi Jia, Shengquan Liu, Cheng Zhang, Yuan Liu, Bo Kong</i>   |      |
| An Evolutionary Framework for Large-Scale Constrained Optimization .....  | 3751 |
| <i>Mohamed Meselhi, Noha Hamza, Saber Elsayed, Daryl Essam, Ruhul Sarker</i>  |      |
| Multi-Level Semi-Coupled Dictionary Learning for Enhanced Person Re-Identification .....  | 3757 |
| <i>Hong-Tian Zhao</i>   |      |
| Enhancing Sound Source Localization in Blind Soccer: Analyzing Head Movement Strategies and<br>Localization Abilities for Static and Dynamic Auditory Cues Via a Virtual Spatial Acoustic System..... | 3763 |
| <i>Ayumu Tsuji, Shimpei Aihara, Shotaro Tanaka, Lena Guinot, Hiroyasu Iwata</i>   |      |
| Effects of Sensor Setup Time and Comfort on User Experience in Physiological Computing* .....   | 3776 |
| <i>Vesna D. Novak, Robert A. Kaya, Collyn J. Erion, Mohammad Sohorab Hossain, Joshua D.<br/>Clapp</i>   |      |

|  |      |
|--|------|
| SOS-1K: A Fine-Grained Suicide Risk Classification Dataset for Chinese Social Media Analysis.....                                  | 3781 |
| <i>Hongzhi Qi, Hanfei Liu, Jianqiang Li, Qing Zhao, Wei Zhai, Dan Luo, Tian Yu He, Shuo Liu, Bing Xiang Yang, Guanghui Fu</i>      |      |
| Improved Chinese Few-Shot Relation Extraction Using Large Language Model for Data Augmentation and Prototypical Network .....      | 3787 |
| <i>Xu Haoran, Kechen Lou, Sixian Chan</i>  |      |
| Novel Gmapping Using Quantum-Behaved Particle Swarm Optimization * .....   | 3795 |
| <i>Gwo-Ruey Yu, H.-H. Hsu</i>  |      |
| Analyzing the Correlation Between Sleep Duration and Heart Rate Variability Index Using ECG Big Data.....                          | 3797 |
| <i>Yutaka Yoshida, Emi Yuda</i>  |      |
| A Taxonomic Classification and Identification System for Robots: Abstract.....   | 3799 |
| <i>Satoru Isaka</i>  |      |
| Adaptive Neural Networked Based Impedance Control of Mobile Manipulators with Uncertainties.....                                   | 3801 |
| <i>Bo-Nian Lee, Hua-Hsuan Yeh, Yen-Chen Liu</i>  |      |
| SMCS TEAM: Open Course on Cyber Physical Systems Foundation and Design for Unmanned Aerial Vehicles (UAVs) .....                   | 3803 |
| <i>Yan Wan, Shengli Fu, Junfei Xie, Kejie Lu</i>   |      |
| Dynamic Capacitated Vehicle Routing Problem with Stochastic Requests Using Deep Reinforcement Learning .....                       | 3805 |
| <i>Kaiqiang Tang, Huiqiao Fu, Jiasheng Liu, Guizhou Deng, Yuanyang Lu, Chunlin Chen</i>  |      |
| Towards Personalized Federated Learning Via Comprehensive Knowledge Distillation.....  | 3807 |
| <i>Pengju Wang, Bochao Liu, Weijia Guo, Yong Li, Shiming Ge</i>  |      |
| Balanced Subgoals Generation in Hierarchical Reinforcement Learning .....  | 3813 |
| <i>Sifeng Tong, Quan Liu</i>   |      |
| A Multiform Evolutionary Approach with Enhanced Diversity and Opposition-Based Learning for Multi-Objective Feature Selection..... | 3819 |
| <i>Gaohui Li, Zefeng Chen, Yuren Zhou</i>  |      |
| A Dynamic Weight Optimization Strategy Based on Momentum Method.....   | 3827 |
| <i>Lin Wei, Qilong Wang, Huijuan Lian, Lei Shi, Shaohua Yuan</i>   |      |
| Prediction of Ship Operation Time at Bulk Cargo Terminals Using Stacking Ensemble Learning.....                                    | 3833 |
| <i>Wei Zhang, Liang Qi, Weili Zhao, Song Xue, Xiwang Guo</i>   |      |
| PTGFI: A Prompt-Based Two-Stage Generative Framework for Function Name Inference.....  | 3839 |
| <i>Menglu Wang, Xiaohui Han, Peipei Wang, Wenbo Zuo</i>  |      |
| Rescue Operators' Perspectives on KIRETT Wearable Technology: A Qualitative Study .....  | 3845 |
| <i>Mubaris Nadeem, Johannes Zenkert, Lisa Bender, Christian Weber, Madjid Fathi</i>  |      |
| Real-Time Person-Following Robot: Front-Following Using Human Motion Prediction .....  | 3851 |
| <i>Ansheng Wang, Yasutoshi Makino, Hiroyoki Shinoda</i>  |      |
| An Incremental Remaining Useful Life Prediction Method Based on Wasserstein GAN and Knowledge Distillation.....                    | 3857 |
| <i>Xiaorui He, Chen Ding, Fei Qiao, Jiaxuan Shi</i>  |      |

|   |      |
|---|------|
| Deep Attention Driven Reinforcement Learning (DAD-RL) for Autonomous Decision-Making in Dynamic Environment.....  | 3863 |
| <i>Jayabrata Chowdhury, Venkataramanan Shivaraman, Sumit Dangi, Suresh Sundaram, P B Sujit</i>  |      |
| Hybrid Variable Neighborhood Search Algorithm for the Multi-Objective Distributed Permutation Flowshop Scheduling Problem with Sequence-Dependent Setup Times ..... | 3869 |
| <i>Mingzhe She, Fei Qiao, Yumin Ma, Junkai Wang, Jiakang Ai, Juan Liu</i>   |      |
| An eBPF-Empowered Congestion Control System with Delay Requirements .....   | 3875 |
| <i>Wenqi Pan, Yuedong Xu, Chenhao Wang, Jun Wu</i>  |      |
| Multitask Routing Design for Load-Balancing Satellite Networks .....  | 3881 |
| <i>Xiaoling Wang, Zheng Fan, Shibing Zhao, Qi Deng, Qi Kang, Xiao Dou</i>   |      |
| Generative AI Impact on the Future of Work: Insights from Software Development .....  | 3887 |
| <i>Caroline Da Conceição Lima, Herbert Salazar, Yuri Lima, Carlos Eduardo Barbosa, Matheus Argôlo, Alan Lyra, Jano Moreira De Souza</i>                             |      |
| Integrating Private and Accountable Threshold Signature into Ciphertext-Policy Attribute-Based Encryption Supporting Collaboration Decryption.....                  | 3893 |
| <i>Meixin Chen</i>  |      |
| Joint Awareness and Congestion Control in Vehicular Networks.....   | 3899 |
| <i>Ying Chen, Fuxin Zhang</i>   |      |
| Cross-Domain Transfer Learning Using Attention Latent Features for Multi-Agent Trajectory Prediction .....  | 3905 |
| <i>Jia Quan Loh, Xuwen Luo, Fan Ding, Hwa Hui Tew, Junn Yong Loo, Ze Yang Ding, Susilawati Susilawati, Chee Pin Tan</i>   |      |
| MGS-Net: Fusing Global and Local Feature Enhancements for Healthcare Education Management of Myasthenia Gravis Using Speech Data.....                               | 3912 |
| <i>Jing Tang, Jianqiang Li, Jingchen Zou, Yuning Huang, Shujie Ding, Linna Zhao, Xi Xu</i>  |      |
| Sustainable Energy Planning for Community Microgrids Considering Economic, Environmental, and Resilience Factors.....   | 3918 |
| <i>Moslem Uddin, Huadong Mo, Daoyi Dong</i>   |      |
| Graph Attention Networks for Invisible Attack Identification in Smart Grids .....   | 3924 |
| <i>Fu Jiang, Hui Wu, Yihan Tang, Weirong Liu, Wanwan Ren, Yingze Yang</i>   |      |
| User Clustering for Pairwise Comparison with Missing Values Using Bradley-Terry Model and Consensus Clustering .....  | 3930 |
| <i>Hirota Kaji</i>  |      |
| Quantum Robust Control for Time-Varying Noises Based on Adversarial Learning.....   | 3937 |
| <i>Haotian Ji, Sen Kuang, Daoyi Dong, Chunlin Chen</i>  |      |
| Information Spectrum Approach to Binary Hypothesis Testing with Unknown Parameters* .....   | 3943 |
| <i>Ryo Nomura</i>   |      |
| Rumor Detection Based on Macro-Micro Public Opinion Modeling and Sentiment Scores .....   | 3950 |
| <i>Li Li, Jingyang Hu, Shihao Fu, Xin Xing, Wei Zhou</i>  |      |
| Online Anomaly Detection for Streaming Data in the Presence of Missing Values .....   | 3956 |
| <i>Xinyao Xu, Mengna Liu, Xu Cheng, Lei Song, Jianhua Zhang</i>   |      |

|   |      |
|---|------|
| Automatic Classification of Subjective Time Perception Using Multi-Modal Physiological Data of Air Traffic Controllers.....       | 3962 |
| <i>Till Aust, Eirini Balta, Argiro Vataakis, Heiko Hamann</i>   |      |
| Support Vector Machine and Random Forest Evaluation for Motion Intention Detection Using Surface EMG.....                         | 3968 |
| <i>Takahiro Noguchi, Jun Inoue</i>  |      |
| Development of SNS Applications to Control Cyberbullying with Nudge Using Multilingual Translation.....                           | 3974 |
| <i>Taichi Hirano, Fumihide Tanaka</i>   |      |
| Vibration Control Using a Robust Input Shaper Via Extended Kalman Filter-Incorporated Residual Neural Network.....                | 3980 |
| <i>Weiyi Yang, Shuai Li, Xin Luo</i>  |      |
| An Improved Adaptive Moment Estimation Algorithm for the Industrial Robot Calibration.....  | 3993 |
| <i>Tinghui Chen, Shuai Li</i>   |      |
| Raspberry Pi Single-Board Computers: Cost/Performance Relationship Over Time.....   | 3999 |
| <i>David Beserra, Patricia Takako Endo, Louis Clicnkx, Thomas Clement, Alexandre Maugras, Boubacar Tiam Guisse</i>                |      |
| Model Predictive Control with Recursive Multi-Step Input Convex Lipschitz Neural Networks: An Application to Smart Buildings..... | 4005 |
| <i>Paolo Scarabaggio, Nicola Mignoni, Jan Jantzen, Raffaele Carli, Mariagrazia Dotoli</i>   |      |
| News Session Recommendation Based on Long and Short-Term User Interest Representation and Multi-View Learning.....                | 4011 |
| <i>Jiaxing He, Liang Li, Xingbin Mao</i>  |      |
| FPRes-Net: Feature Pyramid-Based Residual Network for Alzheimer's Disease Diagnosis.....  | 4017 |
| <i>Yueheng Zhang, Xiaoshuang Zhang, Yaozu Li, Jinfeng Wu, Jin-Xing Liu, Chunhou Zheng, Xinchun Cui</i>                            |      |
| An Attention-Enhanced Text Error Detection Model Based on Potential Miswritten Term Pre-Check Feature in Manufacturing.....       | 4023 |
| <i>Nan Xu, Peiyan Wang</i>  |      |
| Enhancing GPT-3.5 for Knowledge-Based VQA with In-Context Prompt Learning and Image Captioning.....                               | 4030 |
| <i>Yuling Yang, Cong Cao, Fangfang Yuan, Shuai Zeng, Dakui Wang, Yanbing Liu</i>  |      |
| Named Entity Recognition of Chinese Diabetes Based on Multi-Feature Fusion and Multi-Head Attention Mechanism.....                | 4036 |
| <i>Xueliang Geng, Shihua Wang, Tianle Gao, Li Zhang, Ming Jing</i>  |      |
| Distributed and Adaptive Message Dissemination for Vehicle Platooning in Hybrid Traffic.....                                      | 4042 |
| <i>Xiang Li, Fuxin Zhang</i>  |      |
| Towards Assessing Generative AI Based Empathic Systems.....   | 4048 |
| <i>Aladdin Ayesh, Miguel Arevalillo-Herrez, Asma Zoghlami</i>  |      |
| Enhanced Tree Branch Segmentation in Urban Environments Using a Dual-Encoder Model with Graph Reasoning Decoder Block.....        | 4054 |
| <i>Yue Zhou, Hancong Wang, Yanyi Liu, Yin Wu</i>  |      |



|  |      |
|--|------|
| A Novel Framework Combining VSL and Vehicle Platooning for Freeway Bottleneck.....                                 | 4061 |
| <i>Tong Lu, Liang Qi, Wenjing Luan, Kun Liu, Xiwang Guo, Qurra Tul Ann Talukder</i>                                |      |
| Architecture and Aggregation Strategies of Federated Broad Learning System: A Feasibility Study.....               | 4067 |
| <i>Xueyue Yang, Zhulin Liu, C. L. Philip Chen</i>  |      |
| SSP: A Simple and Safe Prompt Engineering for Visual Generation .....  | 4074 |
| <i>Weijin Cheng, Jianzhi Liu, Ziyun Jiao, Jiawen Deng, Fuji Ren</i>  |      |
| Towards Consistent Object Detection Via LiDAR-Camera Synergy .....   | 4080 |
| <i>Kai Luo, Hao Wu, Kefu Yi, Kailun Yang, Wei Hao, Rongdong Hu</i>   |      |
| HCMLP: A Highly Condensed All-MLP Architecture for Extended Long-Term Human Motion Prediction .....                | 4087 |
| <i>Shaobo Zhang, Sheng Liu, Fei Gao, Yuan Feng</i>   |      |
| Clustering-Based Co-Evolutionary Crow Search Algorithm for Feature Selection in High-Dimensional Data .....        | 4093 |
| <i>Huan Li, Zhipeng Chen, Wenhong Wei</i>  |      |
| Open-Set Entity Alignment Using Large Language Models with Retrieval Augmentation .....                            | 4099 |
| <i>Linyao Yang, Hongyang Chen, Xiao Wang, Yisheng Lv, Yonglin Tian, Xingyuan Dai, Fei-Yue Wang</i>                 |      |
| CMIX: Causal Value Decomposition for Cooperative Multi-Agent Reinforcement Learning.....                           | 4105 |
| <i>Dunqi Yao, Chuxiong Sun, Kai Li, Kaijie Zhou, Hanyu Li, Rui Wang, Lixiang Liu</i>                               |      |
| AutoEDA: Iterative Data Focusing and Exploratory Analysis Based on Attribute Frequency.....                        | 4113 |
| <i>Tong Wu, Song Wang, Xin Peng</i>  |      |
| Toward a Computer-Supported Remote Serendipity: Understanding the Role of Collaboration in Remote Innovation ..... | 4119 |
| <i>Aline Coutinho, Carlos Eduardo Barbosa, Marcos Antonio De Almeida, Jano Moreira De Souza</i>                    |      |
| Enhancing Point Cloud Sampling Quality with Dual-Branch Fusion Networks.....                                       | 4126 |
| <i>Yi Jin, Xu Wang, Mengxia Hu, Hui Yu, Yidong Li, Tao Wang, Songhe Feng, Congyan Lang</i>                         |      |
| Consensus Reaching Model for 2-Rank Group Decision Making with Personalized Individual Semantics .....             | 4132 |
| <i>Zhen Zhang, Wenyu Yu, Ke Li</i>   |      |
| Design Process for Concept Development of Human-Robot Workstations for People with Disabilities.....               | 4134 |
| <i>Elodie Hüsing, Carlo Weidemann, Burkhard Corves, Mathias Hüsing</i>   |      |
| A Survey Forest Diagram: Gain a Divergent Insight View on a Specific Research Topic .....                          | 4136 |
| <i>Jinghong Li, Wen Gu, Koichi Ota, Shinobu Hasegawa</i>   |      |
| Improvement in the Transferability of Target Adversarial Examples Based on Data Augmentation .....                 | 4138 |
| <i>Kun Wang, Xing Jin, Fuqiang Wang</i>  |      |
| YOLO-UTS: Lightweight YOLOv5 for UAV Traffic Monitoring and Surveillance.....                                      | 4145 |
| <i>Haimin Yan, Juncheng Wang, Xiangbo Kong, Hiroyuki Tomiyama</i>  |      |
| YOLO-ELD: Efficient and Lightweight Detection for UAV Aerial Imagery.....  | 4151 |
| <i>Haimin Yan, Juncheng Wang, Xiangbo Kong, Hiroyuki Tomiyama</i>  |      |

|  |      |
|--|------|
| Unsupervised Low Light Image Enhancement Via SNR-Aware Swin Transformer .....  | 4157 |
| <i>Zhijian Luo, Jiahui Tang, Kaihua Zhou, Zihan Huang, Jiao Zhang, Yueen Hou</i>   |      |
| High-Performance Video Retrieval by Combining Contrastive Language Image Pre-Training and Cross-Modal Attention .....                            | 4163 |
| <i>Jun-Jie Ou, Shih-Hsuan Yang</i>   |      |
| Malware Classification Method Based on Dynamic Features with Sensitive Behaviors .....   | 4168 |
| <i>Yamin Xie, Siyuan Li, Zhengcai Chen, Haichao Du, Xiaoqi Jia, Jing Tang, Yuejin Du</i>   |      |
| A Method for Robotaxi Dispatch with Recommendation of Boarding Time and Pick-Up/Drop-Off Points.....   | 4174 |
| <i>Liang Qi, Mengqi Li, Wenjing Luan, Rongyan Zhang, Qurra Tul Ann Talukder, Kun Liu, Xiwang Guo</i>   |      |
| A Safe Economic Dispatch for Microgrid with Ladder-Type Carbon Trading .....   | 4180 |
| <i>Weirong Liu, Qifeng Xie, Jieqi Rong, Wanwan Ren, Fu Jiang</i>   |      |
| Multi-Scale Quantum Harmonic Oscillator Behaved Algorithm with Three-Stage Perturbation for High-Dimensional Expensive Problems.....             | 4187 |
| <i>Xinggui Ye, Jianping Li, Peng Wang</i>  |      |
| Neural Model Embedded Heuristics for Robust Traveling Salesman Problem with Interval Uncertainty .....   | 4193 |
| <i>Pei Xiao, Zizhen Zhang, Jinbiao Chen, Jiahai Wang</i>   |      |
| Learning a Shogi Evaluation Function Using Genetic Algorithms.....   | 4199 |
| <i>Jim O'Connor, Russell Kosovsky, Brooke Brandenburger</i>  |      |
| Towards Robust Blockchain Price Oracle: A Study on Human-Centric Node Selection Strategy and Incentive Mechanism.....                            | 4205 |
| <i>Youquan Xian, Xueying Zeng, Hao Wu, Danping Yang, Peng Wang, Peng Liu</i>   |      |
| Modularized Brain Network for Eliminating Volume Conduction Effects.....   | 4212 |
| <i>Debashis Das Chakladar, Foteini Simistira Liwicki</i>   |      |
| Augmenting the Perceptual Experience of Being Faced Using Gaze Modeling During Online Video Viewing .....  | 4219 |
| <i>Yuto Nakajima, Masakazu Hirokawa, Modar Hassan, Kenji Suzuki</i>  |      |
| Extracted Audio-Induced Reward Expectation Information from Local Field Potential in the Medial Prefrontal Cortex .....                          | 4225 |
| <i>Mingyi Wang, Jieyuan Tan, Yifan Huang, Shenghui Wu, Zhiwei Song, Yiwen Wang</i>   |      |
| Fuzzy Direct Torque Control Application-Specific Integrated Circuit with Neural Network and Fuzzy Hysteresis Controller for Induction Motor..... | 4231 |
| <i>Guo-Ming Sung, Bo-Rui Huang, Ze-Kai Lin, Ching-Yin Lee, Chao-Rong Chen, Chih-Ping Yu</i>  |      |
| Classification and Deployment of Animal Images Based on Convolutional Neural Networks and Transferability Estimation .....                       | 4237 |
| <i>Biyi Jiang, Jun Wang, Peng Zhu, Huanyu Yang</i>   |      |
| Deep Arc Detection for High-Speed Railways: An Improved YOLOv5 Approach with SEC3 Attention and BiFPN Fusion .....                               | 4243 |
| <i>Yixuan Ma, Shuai Xu, Huiyan Jia</i>   |      |

|   |      |
|---|------|
| Optimal Re-Sequencing of Electric Vehicle Platoons Based on Deep Reinforcement Learning.....                                      | 4250 |
| <i>Miao Liu, Chu Peng, Shaopan Guo, Long Xiao, Benyun Shi, Yue Peng</i>   |      |
| Cooperative Adaptive Fault-Tolerant Braking Control for Urban Rail Trains with Prescribed Performance.....                        | 4256 |
| <i>Rui Zhang, Bin Chen, Heng Li, Peidong Zhu, Lingshuang Kong</i>   |      |
| Robust Decentralised Control for Modular Aerial Parcel Delivery Using Persistently Excited Physics-Informed Neural Networks ..... | 4262 |
| <i>Archit Krishna Kamath, Saeid Nahavandi, Sreenatha G. Anavatti, Mir Feroskhan</i>   |      |
| A Deep Reinforcement Learning Approach to Optimize Closing Down a Single-Arm Cluster Tool.....                                    | 4277 |
| <i>Weixin Liang, Qinghua Zhu, Zongru Li, Jiantie Zhou, Yan Hou</i>  |      |
| Computational Logistics: Definition Evolution, Conceptual Architecture, Practical Philosophy and Typical Application .....        | 4283 |
| <i>Bin Li</i>   |      |
| Analysis of Bitcoin Fork by Colored Petri Nets .....  | 4291 |
| <i>Zeyu Zhou, Ding Liu, Tatiana R. Shmeleva, Dmitry A. Zaitsev</i>  |      |
| Fed-BRMC: Byzantine-Robust Federated Learning Via Dual-Model Contrastive Detection.....   | 4297 |
| <i>Xiaoyun Gan, Peng Lu, Shanyu Gan, Youqian Xian, Kaichen Peng, Peng Liu, Dongcheng Li</i>                                       |      |
| DFedCL: Decentralized Federated Collaborative Learning with Privacy Protection.....   | 4304 |
| <i>Jifei Hu, Yanli Li, Lifa Liu, Hua Lou</i>  |      |
| Finite-Time Multi-Parameter Smoothing Distributed Algorithm for Delayed Multi-Agent Systems Subject to Switching Topology.....    | 4310 |
| <i>Jiahao Leng, Qishui Zhong, Sheng Han, Guoyi Li, Gangming Zhang</i>   |      |
| Cross-Angle Facial Individual Verification of Giant Panda .....   | 4322 |
| <i>Jiawei Wu, Han Su, Peng Min, Mengnan He, Pengcheng Wu, Gai Luo, Rong Hou, Peng Chen</i>  |      |
| Efficient CNN-Transformer Aggregation Network for Remote Sensing Image Change Detection .....                                     | 4328 |
| <i>Bingjie Kong, Qinglong Meng, Fengqi Hao, Jinqiang Bai</i>  |      |
| Knowledge-Based Transformer: Enhancing Neural Machine Translation Through Knowledge Base Integration .....                        | 4334 |
| <i>Phong Vo, Long Nguyen</i>  |      |
| Grassland Mouse Hole Recognition Model Based on UAV Remote Sensing and Improved YOLOv7 .....                                      | 4340 |
| <i>Yu Han, Xiangyu Bai, Xiaochen Gao, Haoran Cheng, Kexin Zhou</i>  |      |
| SCMA Codebooks Design for Three Optimization Algorithms Based on Eisenstein Integer Unit Circle.....                              | 4346 |
| <i>Teng Wan, Wenping Ge, Kurban Ubul, Yifan Liao</i>  |      |
| A Novel and Efficient Web Service Discovery Method Based on Threaded Index.....   | 4352 |
| <i>Jiamei Liu</i>   |      |
| On the Adversarial Robustness of Hierarchical Classification.....   | 4358 |
| <i>Ran Wang, Simeng Zeng, Wenhui Wu, Yuheng Jia, Wing W. Y. Ng, Xizhao Wang</i>   |      |

|  |      |
|--|------|
| WASPCN-Net: Automatic Detection of Obstructive Sleep Apnea Using Smoothed Wavelet Spectrograms of Single-Lead ECG Signals.....                   | 4365 |
| <i>Amit Bhongade, Tapan Kumar Gandhi</i>   |      |
| APS-LSTM: Exploiting Multi-Periodicity and Diverse Spatial Dependencies for Flood Forecasting.....   | 4371 |
| <i>Jun Feng, Xueyi Liu, Jiamin Lu, Pingping Shao</i>   |      |
| KANS: Knowledge Discovery Graph Attention Network for Soft Sensing in Multivariate Industrial Processes .....                                    | 4377 |
| <i>Hwa Hui Tew, Gaoxuan Li, Fan Ding, Xuewen Luo, Junn Yong Loo, Chee-Ming Ting, Ze Yang Ding, Chee Pin Tan</i>                                  |      |
| VNet: A GAN-Based Multi-Tier Discriminator Network for Speech Synthesis Vocoders.....  | 4384 |
| <i>Yubing Cao, Yongming Li, Liejun Wang, Yinfeng Yu</i>  |      |
| TRFP: A Trip Recommendation Approach for a Query with Fixed Intermediate POI.....  | 4390 |
| <i>Wenjing Luan, Guodong Jiang, Liang Qi, Kun Liu, Xiwang Guo</i>  |      |
| Auxiliary Generative Adversarial Networks with Illustration2Vec and Q-Learning Based Hyperparameter Optimisation for Anime Image Synthesis ..... | 4396 |
| <i>Vivian Sedov, Li Zhang</i>  |      |
| CSLP: Collaborative Solution to Long-Tail Problem and Popularity Bias in Sequential Recommendation.....  | 4404 |
| <i>Yan Huang, Zhenyu Yang, Wenyue Hu, Baojie Xu, Zhibo Zhang</i>   |      |
| RFSD-YOLO: An Enhanced X-Ray Object Detection Model for Prohibited Items .....   | 4412 |
| <i>Xiaotong Kong, Aimin Li, Wenqiang Li, Zhiyao Li, Yuechen Zhang</i>  |      |
| Simple Structure Enhanced Contrastive Graph Clustering.....  | 4419 |
| <i>Haojin Wang, Kexin Wang</i>   |      |
| IAMS-Net: An Illumination-Adaptive Multi-Scale Lesion Segmentation Network .....   | 4425 |
| <i>Yisen Zheng, Guoheng Huang, Feng Zhang, Lianglun Cheng, Xiaochen Yuan, Guo Zhong, Shenghong Luo</i>   |      |
| Enhancing Event Tagger with Automatic Speech Recognizer for Audio Multi-Task Scenarios by Distillation with Pre-Trained Large Models.....        | 4431 |
| <i>Jianfeng Cheng, Ye Liu, Jian Yin, Liangdao Wang, Yan Pan</i>  |      |
| Conjugate Momentum Quadratic Penalty Alternating Minimization for Total Variation Image Restoration.....   | 4437 |
| <i>Ong Yin Ren, Tarmizi Adam, Nur Syarafina Mohamed, Mohd Fikree Hassan, Pang Yee Yong</i>   |      |
| An Adaptive Parallel Gaussian Homotopy Approach for Zeroth-Order Optimization.....   | 4443 |
| <i>Bingyi Zhou, Guoyou Wang</i>  |      |
| Towards Workload-Specific Configuration Tuning Via Meta-Learning for RocksDB.....  | 4450 |
| <i>Chanho Yearn, Jieun Lee, Sangmin Seo, Sanghyun Park</i>   |      |
| Incentive Mechanism of Selfish Nodes Based on Energy Optimization and Game Theory.....   | 4458 |
| <i>Xiangjia Dong, Yuan Cheng, Winston K. G. Seah, Feng Zhang, Gang Xu</i>  |      |
| Heterogeneous Robot Swarms with an Attention Mechanism for Dynamic Target Tracking .....   | 4464 |
| <i>Ziqing Zhou, Bo Chen, Chun Ouyang, Xinyang Dong, Siao Liu, Linqiang Hu, Yi Xie, Zhile Zhao, Zhongxue Gan</i>                                  |      |

|   |      |
|---|------|
| Research on Task Collaboration Over Heterogeneous Networks Based on Evolutionary Game Theory .....  | 4472 |
| <i>Hongqian Wu, Hongzhong Deng, Jichao Li, Hankang Luo</i>  |      |
| Infrared Small Target Detection Based on DETR Architecture and Super-Resolution Technique .....   | 4480 |
| <i>Huanyu Yang, Lijun Yang, Jun Wang, Yuming Bo, Jiacun Wang</i>  |      |
| End-To-End On-Orbit Objects Detection with ConvNets .....   | 4486 |
| <i>Bo Ru, Pengrong Hou, Xiang Li, Qinghao Chu, Zikang Zeng, Chenming Zhang, Zhelong Wang</i>  |      |
| Skeleton-Based Continuous Gesture Recognition Using Gesture Detection and Classification .....  | 4492 |
| <i>Weishan Bi, Qing Gao</i>   |      |
| Ubi-Care: An Elderly Life Support Healthcare Framework Based on Ubiquitous Personal Online Data Stores .....  | 4498 |
| <i>Hong Chen, Tao Zhou, Bo Wu</i>   |      |
| Could Human-Robot Interaction Enhance English Comprehension Skills Compared to Traditional Text Reading? a Behavioral-Thermographic Analysis .....        | 4504 |
| <i>Malika Nagpal, Sakshi Chauhan, Gitanshu Choudhary, Shivanshi Saini, Varun Dutt</i>   |      |
| Preliminary Insights on Using Image Entropy to Analyze the Dynamics, Self-Organization, and Stability of Laser Remelting.....                             | 4510 |
| <i>Evgueni V. Bordatchev, Srdjan J. Cvijanovic, Remus O. Tutunea-Fatan</i>  |      |
| Boosting Cognitive Focus Via Binary Search of Attention Types Using Brain-Computer Interfaces.....  | 4512 |
| <i>Balica Darius-Cristian, Beu Mihai-Robert, Bucur Andrei, Durduman-Burtescu Tudor, Gheorghica Istrate David, Ripiciuc Amalia-Ioana</i>                   |      |
| Effect of Presenting Dynamic Characteristic Information of Teleoperated Hydraulic Excavators on Work Efficiency When Switching to a Different Class ..... | 4514 |
| <i>Masaki Nagai, Junya Masunaga, Masaru Ito, Seiji Saiki, Yoichiro Yamazaki, Yuichi Kurita</i>  |      |
| GNF-Net: An Adaptive Mesh Denoising Method with GCN-Based Guided Normal Filtering .....   | 4516 |
| <i>Jie Yan, Lingyu Liang, Yutian Yang, Shuangping Huang</i>   |      |
| PGNet: A GNN-Based Method with Mutual Information Minimization for Fine-Grained Remote Sensing Change Detection .....                                     | 4522 |
| <i>Daobo Sun, Kang Sun, Shuo Qin, Bin Tang, Xiangxu Meng</i>  |      |
| ETKD: A Semi-Supervised Learning-Based Knowledge Distillation Model for Encrypted Traffic Classification.....   | 4528 |
| <i>Quanbo Pan, Yang Yu, Hanbing Yan, Maoli Wang, Bingzhi Qi</i>   |      |
| Adaptive Frequency Enhancement Network for Single Image Deraining.....  | 4534 |
| <i>Fei Yan, Yuhong He, Keyu Chen, En Cheng, Jikang Ma</i>   |      |
| MAML MOT: Multiple Object Tracking Based on Meta-Learning .....   | 4542 |
| <i>Jiayi Chen, Chunhua Deng</i>   |      |
| Teeth Segmentation from Bite-Wing X-Ray Images by Integrating Nested Dual UNet with Swin Transformers.....  | 4548 |
| <i>Yubo Li, Yibin Tian, Zhiyuan Zhang, Xueyang Zhang, Bingran Du, Zhi Zeng</i>  |      |
| Utility-Based Task Offloading and Resource Allocation for Digital Twin-Assisted Edge Networks.....  | 4554 |
| <i>Tong Yin, Xin Chen, Libo Jiao, Aobo Cao, Xin Dai</i>   |      |

|   |      |
|---|------|
| Dynamic Resource Scheduling Based Quality of Service Optimisation in Multi-UAV-Assisted City Edge Network Systems.....            | 4561 |
| <i>Aobo Cao, Xin Chen, Libo Jiao, Tong Yin, Jiyuan Wei</i>  |      |
| Stabilization of Walking Motion with Light Touch Using a Mobile Robot.....  | 4568 |
| <i>Kazuo Kiguchi, Ryosuke Nawama, Daigo Tokunaga, Satoshi Nishikawa</i>   |      |
| Hype Or Revolution: How GPT4, Claude3 Opus, and GPT3.5 Exaggerate Their Influence on HRM Occupations Exposed in Practice .....    | 4574 |
| <i>Yuanhan Xie, Tao Wang, Jiayuan Sun, Dayong Shen, Zhongshan Zhang, Feng Yao</i>   |      |
| Contrastive Masked Autoencoders for Character-Level Open-Set Writer Identification .....  | 4581 |
| <i>Xiaowei Jiang, Wenhao Ma, Yiqun Duan, Thomas Do, Chin-Teng Lin</i>   |      |
| Error-Tolerant Code Segmentation for Supporting Semantic Conflict Prevention in Real-Time Collaborative Programming .....         | 4588 |
| <i>Jinfeng Jiang, Qirui Fu, Mingjie Wang, Zhonghao Liu, Junxiao Lyu, Hongfei Fan</i>  |      |
| Dog's 3D Skeleton Reconstruction Using a Moving Trainer for Analysis of Guide Dog Training .....                                  | 4594 |
| <i>Ansheng Wang, Rongjin Huang, Keisuke Fujii, Shinji Tanaka, Yoshiro Matsunami, Yasutoshi Makino, Hiroyoki Shinoda</i>           |      |
| Can Pupillometry Be Used to Detect Driver Hazard Awareness? .....   | 4600 |
| <i>Kimimasa Tamura, John Gideon, Simon Stent, Guy Rosman</i>  |      |
| Dual Transducers Co-Focusing Method for Ultrasound Stimulation in Calf Peripheral Nervous System: A Feasibility Study.....        | 4608 |
| <i>Haoran Zheng, Xiaoxin Wang, Hongwei Zhang, Honghai Liu</i>   |      |
| HFVR: Free-Viewpoint Reconstruction of Moving Humans from Monocular Video.....  | 4614 |
| <i>Jincheng Xiao, Zhigang Gao, Rui Huang, Jianwen Feng, Xionglong Li, Zilin Xia</i>   |      |
| Detecting Small Objects Using Multi-Scale Feature Fusion Mechanism with Convolutional Block Attention.....                        | 4620 |
| <i>Xionglong Li, Kun Yang, Rui Huang, Binqin Zhou, Jincheng Xiao, Zhigang Gao</i>   |      |
| DAS-COD: Depth-Aware Camouflaged Object Detection Via Swin Transformer .....  | 4626 |
| <i>Chenye Lu, Min Tan, Zhigang Gao, Xiaoyang Mao, Zilin Xia</i>   |      |
| VRZM: Exploring the Effect of Zen Meditation on EEG Patterns in Immersive Environments .....                                      | 4632 |
| <i>Ajoy Kumar, Sahil Sankhyan, Kirti Tripathi, Sakshi Thakur, Arnav Bhavsar, Varun Dutt</i>                                       |      |
| Dynamic NFT Classification and Detection on Ethereum Via Smart Contract* .....  | 4645 |
| <i>Keting Yin, Zheng Zhu, Xiaoxue Ren, Xing Wang</i>  |      |
| NAEP: Neighborhood Multihead Attention with Evidential Conditional Neural Processes for Few-Shot Knowledge Graph Completion*..... | 4651 |
| <i>Yukun Cao, Jingjing Li, Ming Chen, Luobin Huang, Yuanmin Liu, Tianhao Wang</i>   |      |
| MUPO: Unlocking the Potential of Unpaired Data for Single Stage Preference Alignment in Language Models .....                     | 4657 |
| <i>Truong-Duy Dang, The-Cuong Quang, Long Nguyen, Dinh Dien</i>   |      |
| Ontology Mapping-Based Semantic Reasoning with OPC UA for Heterogeneous Industrial Devices .....                                  | 4674 |
| <i>Jing Bi, Rina Wu, Haitao Yuan, Ziqi Wang, Jia Zhang, Mengchu Zhou</i>  |      |

|   |      |
|---|------|
| A Faster Heuristic Scheduling Search for Robotic Cellular Manufacturing Systems with Generalized and Timed Petri Nets .....                           | 4680 |
| <i>Yuanzheng Xiao, Haoran Wu, Yangqing Gao, Bo Huang</i>  |      |
| Scalable Co-Clustering for Large-Scale Data Through Dynamic Partitioning and Hierarchical Merging .....   | 4686 |
| <i>Zihan Wu, Zhaoke Huang, Hong Yan</i>   |      |
| Courier Delivery Optimization in Supply Chain Via Group Multirole Assignment.....   | 4692 |
| <i>Xuwei Lin, Xintong Ke, Haibin Zhu, Dongning Liu</i>  |      |
| Adaptive Group Multi-Role Assignment in Garbage Management System.....  | 4698 |
| <i>Tianshuo Yang, Haibin Zhu, Chun Wang, Phil Xing Yang</i>   |      |
| Distributed Charging Scheduling and Pricing Strategy for Plug-In Electric Vehicles Based on Stackelberg-Nash and Multi-Cluster Aggregative Games..... | 4704 |
| <i>Yuhao Jing, Jianguo Chen, Li Qiao, Huadong Mo, Daoyi Dong</i>  |      |
| FedAMKD: Adaptive Mutual Knowledge Distillation Federated Learning Approach for Data Quantity-Skewed Heterogeneity.....                               | 4710 |
| <i>Shujie Ge, Detian Liu, Yongli Yang, Jianyu He, Shiqiang Zhang, Yang Cao</i>  |      |
| Enhancing CNN-Based Network Robustness Predictors Through Representation Recovery Against Information Noise.....                                      | 4716 |
| <i>Liang Chen, Wenli Huang, Chengpei Wu, Junli Li</i>   |      |
| Adaptive Graph-Based Uncertain Trajectory Data Augmentation Network for Next POI Recommendation.....  | 4724 |
| <i>Tianci Wang, Yantong Lai, Yiyuan Wang, Ji Xang</i>   |      |
| Pareto Front Shape-Agnostic Pareto Set Learning in Multi-Objective Optimization.....  | 4730 |
| <i>Rongguang Ye, Longcan Chen, Wei-Bin Kou, Jinyuan Zhang, Hisao Ishibuchi</i>  |      |
| Efficient Channel Search Algorithm for Convolutional Neural Networks Based on Value Density .....   | 4737 |
| <i>Sheng Yang, Lipeng Chen, Jianguo Yuan, Fengge Wu, Junsuo Zhao</i>  |      |
| Time Slot Bidding Optimization Strategy Based on TD3 in Real-Time Bidding.....  | 4745 |
| <i>Hongkun Qiu, Yuan Feng, Guogang Yang, Chunlong Fan, Haojie Zhu</i>   |      |
| Messenger RNA Subcellular Localization Prediction Via Large Language Models and Attention Mechanisms.....   | 4751 |
| <i>Ge Kong, Yuanhao Fan, Jianing Wang, Zhao Yang</i>  |      |
| Advancements in Bug Traceability: A Systematic Mapping Study .....  | 4757 |
| <i>Bangchao Wang, Shouya Hu, Luyao Ye, Hongyan Wan, Zhiyuan Zou, Xiaoxiao Li, Jiaxu Zhu</i>   |      |
| An Entity Relation Extraction Framework Based on Large Language Model and Multi-Tasks Iterative Prompt Engineering.....                               | 4763 |
| <i>Haibin Geng, Chenglong Shi, Xuesong Jiang, Zan Kong, Song Liu</i>  |      |
| Enhancing MI-BCI Classification with Subject-Specific Spatial Evolutionary Optimization and Transfer Learning .....                                   | 4770 |
| <i>Marios Petrov, Adham Atyabi</i>  |      |
| On the Modification of Ring Consistent Hash Uniformity: A Case Study .....  | 4778 |
| <i>Muhammad Waqas, Sian-Jheng Lin, Bin Liu, Adnan Fazi</i>  |      |

|   |      |
|---|------|
| Photovoltaic Power Forecasting with Missing Values Using VMD, GLTA-Unit and Multi-Scale Temporal Graph Convolution* .....   | 4784 |
| <i>Yingxiang Wang, Rongzuo Guo, Peng Min</i>  |      |
| BD-YOLO: Optimising Insect Imbalance Data Detection Models .....  | 4790 |
| <i>Jian-Yi Wang, Zhen-Hong Jia, Gang Zhou, Jia-Jia Wang</i>   |      |
| Behavior Recognition in Mice Using RGB-D Videos Captured from Below .....   | 4797 |
| <i>H. Oikawa, Y. Tsuruda, Y. Sano, T. Teiichi, M. Yamamoto, H. Takemura</i>   |      |
| Depth Camera-LiDAR Fusion Based UAV Autonomous Navigation for Parcel Delivery in Complex Urban Environment.....   | 4801 |
| <i>Chengdao Chi, Bing Li, Hao Deng, Shengjie Zhao</i>   |      |
| DSESL: A Deep Stacking Ensemble Model for Synthetic Lethality Prediction.....   | 4807 |
| <i>Zhuang Li, Xiaowen Wang, Yulong Li, Hongming Zhu, Qin Liu</i>  |      |
| Improved Proximal Policy Optimization Algorithm for Controller Design in Hybrid UAVs* .....   | 4821 |
| <i>Mingyu Qi, Hongyuan Zheng, Xiangping Bryce Zhai, Qi Zhu</i>  |      |
| Long-Term Water Quality Prediction with Patch Savitsky-Golay Filtering and Transformer .....  | 4827 |
| <i>Yongze Lin, Junfei Qiao, Jing Bi, Haitao Yuan, Jiahui Zhai, Mengchu Zhou</i>   |      |
| Genetic Algorithm with Reinforcement Learning Based Parameter Optimisation.....   | 4833 |
| <i>Alexander Woodcock, Li Zhang</i>   |      |
| Improving Knowledge Tracing Through Learning Processes and Concept Similarity Map .....   | 4840 |
| <i>Yingxu Lai, Xinyu Xu, Xiao Zhang, Xinrui Dong, Junxi Zhuang, Jing Liu</i>  |      |
| Enhancing Investment Forecasting Through the Second-Level Thinking Concept.....   | 4848 |
| <i>Dan Zhao, Chao Wang, Zhenyi Shen</i>   |      |
| Enhanced Spatial-Temporal Analysis for EEG-Based Microsleep Detection: Integrating Kalman Filtering with Voronoi Tessellation and Adaptive Coverage Control ..... | 4855 |
| <i>Attila Biró, Antonio Ignacio Cuesta-Vargas, László Szilágyi</i>  |      |
| A Self-Tuning Version for the Fuzzy-Possibilistic Product Partition c-Means Algorithm .....   | 4861 |
| <i>Mirtill-Boglárika Naghil, Vladik Kreinovich, Levente Kovács, László Szilágyi</i>   |      |
| A Hybrid Method for Dense Points Enclosing and Observation Planning .....   | 4868 |
| <i>Youmei Pan, Xinyao Hui, Jinwen Li, Xiaobin Zhu, Fanjiang Xu, Peng Wang</i>   |      |
| Group Consensus Optimization Ranking Approach with Expert Reliability and Social Network Relationships .....  | 4875 |
| <i>Guangxu Li, Xin Zhao, Yanhong Li</i>   |      |
| Duopoly Competition in Blockchain Game with Interoperability.....   | 4881 |
| <i>Jinghan Sun, Hongbo Zhang, Abdulmotaleb El Saddik, Wei Cai</i>   |      |
| Games in Technology Forecasting & Foresight: A Rapid Review .....   | 4887 |
| <i>Rafael Machado Andrade, Aline Lima De Souza, Carlos Eduardo Barbosa, Alan Lyra, Herbert Salazar, Yuri Lima, Matheus Argôlo, Jano Moreira De Souza</i>          |      |
| Adaptive Task and Motion Planning for Object-Invariant Stacking Operations .....  | 4893 |
| <i>Arup Kumar Sadhu, Arindam Saha, Anushko Roy Choudhury, Ranjan Dasgupta, Shuvra Neel Roy</i>  |      |



|  |      |
|--|------|
| Novel Creative Technologies Decision Support System for Small and Medium Enterprises:<br>Exploring the Potential, Current Findings and Future Research Consideration ..... | 4901 |
| <i>I. Sosunova, V. Hasheela, A. Happonen</i>   |      |
| Plant Species Classification Using Evolving Ensemble and Siamese Networks.....   | 4908 |
| <i>Jed Arno, Ohwen Grace, Isabel Larridon, Li Zhang</i>  |      |
| Robust Kalman Filter Based Path-Tracking Control with Prescribed Performance for Autonomous<br>Ground Vehicles Under FDI Attack.....                                       | 4916 |
| <i>Yuxin Wang, Chuan Hu, Hong Gao</i>  |      |
| GraDiNet: Implicit Self-Distillation of Graph Structural Knowledge.....  | 4930 |
| <i>Junyan Xu, Jianxing Liao, Rucong Xu, Yun Li</i>   |      |
| Fish-Bone Diagram of Research Issue: Gain a Bird's-Eye View on a Specific Research Topic.....  | 4936 |
| <i>Jinghong Li, Huy Phan, Wen Gu, Koichi Ota, Shinobu Hasegawa</i>   |      |
| Parallel-SWSA: Automated Extraction for Feature Sequences from Remote Access Trojan Attack<br>Packets.....   | 4942 |
| <i>Xiangyu Li, Hanbing Yan, Bo Lang, Yanzhe Zhang</i>  |      |
| A Multi-Scale Grid Attention Based Network for Blood Vessel Extraction from Retinal Fundus<br>Images .....   | 4958 |
| <i>Xiaoyan Wang, Meifang Peng, Yuanhao Zheng, Jianhao Yu, Yating Zhu, Ming Xia</i>   |      |
| Autoencoder-XGBoost Classifier (AeXGB) for Predicting Severity Level of Parkinson's Disease<br>from Spontaneous Speech .....   | 4964 |
| <i>Thiri Wai, Yu-Shan Liao, Ting-Yun Liao, Chin-Hsien Lin, Chi-Sheng Hung, Li-Chen Fu</i>  |      |
| Interactive Health Care Robot to Measure Vital Signs.....  | 4970 |
| <i>Ryo Saegusa, Kensuke Ohno, Rikuto Okonogi</i>   |      |
| EGLN: A Event Graph Learning Network for Patient Similarity with Chinese Electronic Medical<br>Records.....  | 4976 |
| <i>Zhichao Zhu, Jianqiang Li, Qing Zhao, Chun Xu</i>   |      |
| Forecasting Slow-Wave Sleep Deficiency Through Stress-Related Markers in Forehead EEG .....  | 4982 |
| <i>Cheng-Hua Su, Li-Wei Ko, Tzyy-Ping Jung, Julie Onton, Shey-Cherng Tzou, Jia-Chi Juang, Chung-Yao Hsu</i>  |      |
| Development of Machine Learning Models to Predict Strip Breakage During the Aluminium Cold<br>Rolling Process.....   | 4988 |
| <i>Tiago Ramos Abreu, Alexandre Magno Andrade Maciel</i>   |      |
| Equipping Large Language Models with Memories: A GraphRAG Based Approach.....  | 4994 |
| <i>Tie Li</i>  |      |
| MediVision - Advanced Medical Imaging and Visualization Through AR/VR.....   | 4995 |
| <i>Salih Yoosaf, Naeema Ziyad</i>  |      |
| MAFEN: Multiattention Feature Extraction Network for Remote Sensing Scene Classification .....   | 4997 |
| <i>Feng Cao, Shuiyuan Yang, Deyu Li, Chongben Tao</i>  |      |
| An Empirical Fractal Measure to Predict the Generalization of Deep Neural Networks .....   | 5003 |
| <i>Joao B. Florindo, Davi W. Misturini</i>   |      |

|   |      |
|---|------|
| Event-Triggered Unified Performance State Estimation for Neural Networks with Time-Varying Delays.....                                  | 5017 |
| <i>Yufeng Tian, Xiaojie Su, Peng Shi, Péter Galambos, Chao Shen, Linsong Zhang</i>  |      |
| Boosting a Non-Negative Matrix Factorization-Based Community Detector Via Graph Convolution Regularization .....                        | 5022 |
| <i>Zhigang Liu, Weiling Li, Yurong Zhong</i>  |      |
| Reconstruction and Prediction of Spatio-Temporal Temperature and Salinity Fields in Controlled River Using Data-Driven Deep Fusion..... | 5029 |
| <i>Lei Jia, Yan Pei, Neil Yen</i>   |      |
| An Adaptive Multi-Stage Evolution Algorithm for High-Dimensional Expensive Problems .....   | 5035 |
| <i>Boyuan Zhang, Rui Lai, Guanghong Gong, Haitao Yuan, Jinhong Yang, Jia Zhang</i>  |      |
| Large-Scale Evolutionary Multiobjective Optimization: An Experimental Study .....   | 5041 |
| <i>Tser-Ru Tseng, Tsung-Che Chiang</i>  |      |
| On the Use of the Total Constraint Violation as an Additional Objective in Evolutionary Multi-Objective Optimization .....              | 5048 |
| <i>Yang Nan, Hisao Ishibuchi, Tianye Shu, Cheng Gong</i>  |      |
| Balancing Fairness and Accuracy for Predictive Models in Criminal Justice Applications Using Multi-Objective Optimization Methods ..... | 5056 |
| <i>Xiaowen Qi, Yujunrong Ma, Kiminori Nakamura, Shuvra S. Bhattacharyya</i>   |      |
| A Brain Tumor Segmentation Approach with Adaptive Threshold Optimization Numerical Spiking Neural P Systems.....                        | 5064 |
| <i>Jianping Dong, Gexiang Zhang, Haina Rong, Giancarlo Fortin, Min Chen</i>   |      |
| Exploring the Potential of Discrete Chaotic Evolution Algorithm for Combinatorial Optimization.....                                     | 5070 |
| <i>Yi Ding, Xiang Meng, Yan Pei, Jianqiang Li</i>   |      |
| GN: Guided Noise Eliminating Backdoors in Federated Learning .....  | 5076 |
| <i>Siquan Huang, Ying Gao, Chong Chen, Leyu Shi</i>   |      |
| Designing Antifragile Physical Systems.....   | 5082 |
| <i>Hiroshi Kawakami, Kazuyuki Mori, Tomoyuki Iwawaki</i>  |      |
| Hierarchical Policy Optimization for Cooperative Multi-Agent Reinforcement Learning .....   | 5087 |
| <i>Shunfan He, Ronghao Zheng, Senlin Zhang, Meiqin Liu</i>  |      |
| Expedited Block Transmission in Blockchain Network by Using Clusters.....   | 5093 |
| <i>Xiaoqi Hua, Jian Chen, Peiyun Zhang, Zhangjie Fu, Haibin Zhu, Kezhong Lu, Jigang Ren</i>   |      |
| Privacy Preservation Distributed Tracking Consensus with Secure Event-Based Control for Nonlinear Multiagent System.....                | 5099 |
| <i>Yejie He, Yong Chen</i>  |      |
| DecTest: A Decentralised Testing Architecture for Improving Data Accuracy of Blockchain Oracle.....                                     | 5105 |
| <i>Xueying Zeng, Youquan Xian, Chunpei Li, Zhengdong Hu, Aoxiang Zhou, Peng Liu</i>   |      |
| Temporal Pattern-Aware QoS Prediction with Privacy-Preserving Via Federated Learning Based on Latent Factorization of Tensors .....     | 5112 |
| <i>Shuai Zhong, Zetong Tang, Di Wu</i>  |      |

|  |      |
|--|------|
| Learning-Based Adaptive Spatiotemporal Modeling of Industrial Distributed Processes.....   | 5118 |
| <i>Tianyue Wang, Han-Xiong Li</i>  |      |
| Production-Logistics Collaborative Scheduling in Dynamic Flexible Job Shops Via Multi-Objective<br>Deep Reinforcement Learning*.....     | 5123 |
| <i>Jiaxuan Shi, Fei Qiao, Yumin Ma, Juan Liu, Junkai Wang</i>  |      |
| LumChromNet: A Dual-Path Neural Network Framework for Optical Measurement in VR Systems .....  | 5129 |
| <i>Zhaoqing Leng, Zhengang Zhao, Yanwei Yu, Xiaoyu Zhou, Xu Dong, Yican Zhang</i>  |      |
| Channel-Time Attention Based Patch-Attribute Alignment for Zero-Shot Fault Diagnosis.....  | 5137 |
| <i>Liangqing Zuo, Han Wang, Xiaohan Zhang, Qing Liu, Gaowei Xu, Min Liu</i>  |      |
| Should a Platform Provide Per-Use Rental Services? .....   | 5143 |
| <i>Jinyi Chen, Chenguang Liu, Yongjie Dong</i>   |      |
| A Modular and Coordinated Multi-Agent Framework for Flexible Job-Shop Scheduling Problems<br>with Various Constraints.....               | 5149 |
| <i>Qi Zhou, Zhengtao Cheng, Hongpeng Wang</i>  |      |
| Development of a Mixed-Reality Dual-User Training System for Robot Laparoscopic Surgery .....  | 5157 |
| <i>Ting-You Chen, Kuu-Young Young</i>  |      |
| Semantic Relation-Based Cross Attention Network for Image-Text Retrieval.....  | 5163 |
| <i>Huanxiao Zhou, Yushui Geng, Jing Zhao, Xishan Ma</i>  |      |
| Residual Diffusion Model for Joint Stochastic Trajectory Prediction in Roadside Surveillance<br>Environments.....                        | 5169 |
| <i>Haoxuan Li, Wei He, Tao Wang, Nan Wang</i>  |      |
| Disease Detection Module for SBCE Images Using Modified YOLOv8.....  | 5175 |
| <i>Shiren Ye, Shuo Zhang, Qi Meng, Hui Wang, Jiaqun Zhu</i>  |      |
| Few-Shot Classification Based on Feature Enhancement Network.....  | 5183 |
| <i>Shasha Hu, Han Su, Ruixuan Gao</i>  |      |
| User Engagement Correlates Better with Behavioral than Physiological Measures in a Virtual<br>Reality Robotic Rehabilitation System..... | 5189 |
| <i>Yawen Zhang, Haofei Wang, Bertram E. Shi</i>  |      |
| A Lightweight Convolutional Transformer Architecture Approach for Crack Segmentation in Safety<br>Assessment .....                       | 5195 |
| <i>Muhammad Usman, Haopeng Chen, Muhammad Raza</i>   |      |
| Multi-Objective Optimization and Discrete Action Set Based Rolling Optimal Lookahead Schedule<br>for Coordinating Electric Vehicles..... | 5200 |
| <i>Zhipeng Lei, Chixin Xiao, Dechen Jiang, Zhi Ao</i>  |      |
| MRCAN: Multi-Scale Region Correlation-Driven Adaptive Normalization for Image<br>Harmonization .....                                     | 5206 |
| <i>Luwen Duan, Min Wu, Hongliang Lou, Jun Yin, Xi Li</i>   |      |
| BCAMLI: A Bidirectional Cross-Attention Mechanism-Based Prediction Model for Plant miRNA-<br>LncRNA Interaction .....                    | 5212 |
| <i>Tiantian Ruan, Jing Peng</i>  |      |

|   |      |
|---|------|
| Dual-Branch Complementary Multimodal Interaction Mechanism for Joint Video Moment Retrieval and Highlight Detection.....                      | 5218 |
| <i>Xuehui Liang, Ruomei Wang, Ge Lin, Jiawei Feng, Yuanmao Luo</i>  |      |
| DHCT-DT: Dual-Branch Hybrid CNN-Transformer Combined with Dual-Teacher Semi-Supervised Network for Kidney Ultrasound Image Segmentation ..... | 5224 |
| <i>Yang Luo, Jun Liu, Mengqian Ding</i>   |      |
| Learning Circuit Complexity of Boolean Functions.....   | 5230 |
| <i>Daniel Loscos, Narciso Marti-Oliet, Ismael Rodriguez, Jorge Villarrubia</i>  |      |
| Adaptive Anytime Multi-Agent Path Finding with Density and Delay in Large Neighborhood Search.....  | 5238 |
| <i>Zixian Wu, Zitong Chen</i>   |      |
| Development of an Innovative User Centered Design Driven mHealth App for Female Athletes-“The Coral App”.....                                 | 5245 |
| <i>Ashis Jalote Parmar, Virginia Topranin, Madison Taylor, Vikram Singh Parmar, Øyvind Sandbakk</i>   |      |
| MSFSAN: A Novel Multi-Scale Spatio-Temporal Feature Screening Attention Network for Urban Carbon Emission Prediction .....                    | 5252 |
| <i>Ben Wang, Xizhong Qin, Jiwei Qin, Xiaoyu Zhang, Haodong Ma</i>   |      |
| Data-Driven Coefficient Estimation for Autonomous Underwater Vehicle Depth Subsystem.....   | 5258 |
| <i>Sourav Mishra, Rajini Makam, Suresh Sundaram</i>   |      |
| Integrating Agent Transparency Adaptation Mechanisms into Human Machine Cooperation.....  | 5264 |
| <i>L. Simon, C. Guérin, M.-P. Pacaux-Lemoine, P. Rauffet</i>  |      |
| Top-K Pooling with Patch Contrastive Learning for Weakly-Supervised Semantic Segmentation.....  | 5270 |
| <i>Wangyu Wu, Tianhong Dai, Xiaowei Huang, Fei Ma, Jimin Xiao</i>   |      |
| DiffusionVTON: An Image-Based Virtual Try-On Framework Using Denoising Diffusion Models .....   | 5276 |
| <i>Xiubo Liang, Xin Zhi, Mingyuan Wei, Hongzhi Wang, Mengjian Li</i>  |      |
| Resolving Spurious Temporal Location Dependency for Video Corpus Moment Retrieval .....   | 5282 |
| <i>Yishuo Zhang, Lanshan Zhang, Zhizhen Zhang, Ziyi Wang, Xiaohui Xie, Wendong Wang</i>   |      |
| AAFNet: An Ensemble CNN with Auxiliary Attention Filtering Module for Intrusion Detection .....   | 5288 |
| <i>Yunpeng Sun, Shuangquan Zhang, Zhichao Lian</i>  |      |
| Spatial-Temporal Traffic Forecasting Based on Bottom-Up Representation Learning .....   | 5300 |
| <i>Pengnan Chi, Xiaoliang Ma</i>  |      |
| Inferring Reward Functions from State Transitions: A Deep Learning Approach.....  | 5306 |
| <i>Tarannum Perween, Shuvra Neel Roy, Arup Kumar Sadhu, Ranjan Dasgupta</i>   |      |
| Optimization and Research on Army Vehicle Deployment in Emergency Situations .....  | 5314 |
| <i>Haoran He, Xiaoxiong Zhang, Jun Yang, Xiaolei Zhou, Hao Yan</i>  |      |
| Optimization of Neural Network Models Based on Symbol Interval Propagation.....   | 5319 |
| <i>Xuejian Li, Zihan Li</i>   |      |
| Surrogate-Assisted Differential Evolution for Expensive Equality Constrained Optimization.....  | 5325 |
| <i>Jing-Yu Ji, Wei-Jie Yu, Man-Leung Wong, Sam Kwong</i>  |      |

|   |      |
|---|------|
| DNAS: Depth-First Neural Architecture Search .....  | 5331 |
| <i>Jianjun Zhou, Junying Chen, Yi Cai</i>   |      |
| GHVC-Net: Hypervolume Contribution Approximation Based on Graph Neural Network .....  | 5339 |
| <i>Guotong Wu, Yang Nan, Ke Shang, Hisao Ishibuchi</i>  |      |
| A Dynamic Operational Optimization Method for Robotic Mobile Fulfillment Systems with<br>Inventory Discrepancy Events.....  | 5347 |
| <i>Huai Ma, Ziyang Zhao, Jiaqi Liang, Xingyang Li, Shixin Liu</i>   |      |
| AOCN: Appendix Object Correction Network Utilizing Relationships Across CT Slices.....  | 5353 |
| <i>Wing W. Y. Ng, Jing Xu, Yinhao Liang, Ting Wang, Jianjun Zhang, Hui Zhou, Dan Liang,<br/>Guangming Li, Xinhua Wei</i>  |      |
| MCD: Defense Against Query-Based Black-Box Surrogate Attacks .....  | 5359 |
| <i>Yiwen Zou, Wing W. Y. Ng, Xueli Zhang, Brick Loo, Xingfu Yan, Ran Wang</i>   |      |
| Multi-Agent Pruning and Quantization in Mixed-Precision Models.....   | 5367 |
| <i>Mong-Yung Hsieh, Alan Liu, Zih-Jyun Chen</i>   |      |
| Average Performance Analysis of Multi-Class Classification Based on Error-Correcting Output<br>Codes.....   | 5373 |
| <i>Manabu Kobayashi, Gendo Kumoi, Hideki Yagi, Shigeichi Hirasawa</i>   |      |
| MMPGCN: Multi-Hop Message Passing Graph Convolutional Network for Knowledge Graph<br>Completion .....   | 5379 |
| <i>Jian Wang, Zizhao Zhang, Qi He, You Zhou, Qi Pan</i>   |      |
| Action Robust Reinforcement Learning with Highly Expressive Policy .....  | 5385 |
| <i>Seongin Kim, Takeshi Shibuya</i>   |      |
| Explainable Reinforcement Learning Via Causal Model Considering Agent's Intention .....   | 5391 |
| <i>Seongin Kim, Takeshi Shibuya</i>   |      |
| Analyzing the Influence of Driving Experience on Difference Reverse Parking Behaviors Through<br>Eye-Tracking Data Analysis .....   | 5398 |
| <i>Qirun Wang, Xuan Huang, Bo Wu</i>  |      |
| Multimodal Federated Learning Via Local-Global Fusion.....  | 5403 |
| <i>Zilin Xia, Min Tan, Zhigang Gao, Lingqiang Chu, Tingting Han</i>   |      |
| Assessing the Impact of Immersive Augmented and Virtual Reality Based Joint Attention Training<br>Platform on Autistic Children Via Behavioral and Physiological Measures ..... | 5409 |
| <i>Ashirbad Samantaray, Taranjit Kaur, Chayan Majumder, Sheffali Gulati, Tapan Kumar<br/>Gandhi</i>   |      |
| VR-Based Mantra Meditation for Mental Wellness .....  | 5415 |
| <i>Ankita Garg, Ajoy Kumar, Shubham Garg, Laxmidhar Behera, Varun Dutt</i>  |      |

## Author Index