

**Paper ID: IIHMS-2022-0020**

Paper Title: Power Quality Disturbance Identification in High Noise Environment  
Based on Feature Fusion

Author(s): Shizhe Chen, Yiling Lv, and Hao Wang

**Paper ID: IIHMS-2022-0023**

Paper Title: Binary Tumbleweed Algorithm for Application of Feature Selection

Author(s): Xu Yuan, Jeng-Shyang Pan, Shu-Chuan Chu, and V'aclav Sn'a'sel

**Paper ID: IIHMS-2022-0026**

Paper Title: New Optimization Method Based on Binary Tumbleweed Algorithm

Author(s): Jeng-Shyang Pan, Gui-Ling Wang, Dongqiang Yang, and Shu-Chuan Chu

**Paper ID: IIHMS-2022-0032**

Paper Title: Chaos Rafflesia Optimization Algorithm

Author(s): Xiao Wang, Shu-Chuan Chu, Lingping Kong, and Dongqiang Yang

**Paper ID: IIHMS-2022-0035**

Paper Title: A Brief Overview of Recent Energy Saving Researches in Smart Homes

Author(s): Tien-Wen Sung, Qiaoxin Liang, Zeming Huang, and Chuanbo Hong

**Paper ID: IIHMS-2022-0040**

Paper Title: An Overview of Recent Research on IoT-based Energy Management  
System in Smart Homes

Author(s): Tien-Wen Sung, Zeming Huang, and Qiaoxin Liang

**Paper ID: IIHMS-2022-0077**

Paper Title: Data Masking Analysis based on Masked Autoencoders Architecture for  
Leaf Diseases Classification

Author(s): Li-Hua Li and Radius Tanone

**Paper ID: IIHMS-2022-0083**

Paper Title: Chinese Named Entity Recognition Based BERT-Decoder-CRF in  
Turbine Generator Set Fault Diagnosis

Author(s): Ruimin Wang, Changfeng Yan, Jiawei Lu, Jiang Wang, and Yongming  
Zhang

**Paper ID: IHMSP-2022-0092**

Paper Title: Comparison of Different Part-of-Speech Tagging Techniques for Mongolian Language

Author(s): Ganchimeg Lkhagvasuren, Javkhlan Rentsendorj, Enkhtuul Bukhsuren, and Oyun-Erdene Namsrai

**Paper ID: IHMSP-2022-0095**

Paper Title: Parallel Binary QUasi-Affine TRansformation Evolution (QUATRE) Algorithm

Author(s): Zhongjie Zhuang, Shu-Chuan Chu, Jeng-Shyang Pan, and V'aclav Sn'a'sel

**Paper ID: IHMSP-2022-0098**

Paper Title: A Hierarchical Searchable Encryption Scheme using Blockchain-based Indexing

Author(s): Yuxi Li, Fucai Zhou, Zifeng Xu, and Dong Ji

**Paper ID: IHMSP-2022-0104**

Paper Title: Acceleration Intention Recognition of Pure Electric Vehicle based on SVM and Optimization Algorithm

Author(s): Zi-Hao Long, Ding Chen, Guang-Ji Song, and Zhong-De Zou

**Paper ID: IHMSP-2022-0110**

Paper Title: Quantitative Analysis of Coordination between Intercity Rail Transit and Urban Planning based on Fractal Theory

Author(s): Xian-Yu Yang, Ding Chen, Xin Song, and Pei-Zhou Jiang

**Paper ID: IHMSP-2022-0115**

Paper Title: Modeling and Simulation of Continuous Damping Control Shock Absorber

Author(s): Fei-Fan Zhang, Ding Chen, Jing Sheng, and Yang-Jian Li

**Paper ID: IHMSP-2022-0121**

Paper Title: Multi-group Adaptive Fish Migration Optimization Algorithm

Author(s): Lin-dong Xu, Qing-Wei Chai, Jeng-Shyang Pan, Pei Hu, and Wei-Min Zheng

**Paper ID: IHMSP-2022-0125**

Paper Title: A Solution to Reactive Distributed Power Optimization based on Enhancing Particle Swarms Optimization

Author(s): Truong-Giang Ngo, Thi-Thanh-Tan Nguyen, Jun-Jie Shang, Trong-The Nguyen, and Trinh-Dong Nguyen

**Paper ID: IHMSP-2022-0137**

Paper Title: Optimize Convolutional Neural Network for Facial Expression Recognition

Author(s): Chayanon Sub-r-pa and Rung-Ching Chen

**Paper ID: IHMSP-2022-0155**

Paper Title: Improved SlowFast Network with Spatial-Temporal Attention Module for Action Recognition

Author(s): Zhonghua Sun, Yu Zhang, Ziwen Yi, Kebin Jia, and Jinchao Feng

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Author(s): Pengwei Ma and Jishi Zheng

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Author(s): Bo Yuan, Chao Deng, Zhuang Jin, and Yeh-Cheng Chen

**Paper ID: IHMSP-2022-0186**

Paper Title: Visualization Analysis of Stock Data based on Tableau

Author(s): Chao Deng, Jiao Peng, and Yeh-Cheng Chen

**Paper ID: IHMSP-2022-0190**

Paper Title: Application of ARIMA Time Series Model in Stock Data Prediction

Author(s): Jiao Peng, Chao Deng, and Yeh-Cheng Chen

**Paper ID: IHMSP-2022-IS01-01**

Paper Title: A Novel Strategy for Improvements in Binary Swarm Optimization Algorithms

Author(s): Fang-Dong Geng, Ruo-Bin Wang, Rui-Bin Hu, and Lin Xu

**Paper ID: IIHMSp-2022-IS01-02**

Paper Title: A Fast Approach for Adversarial Training by Fleeing the Illness  
Parameter Space

Author(s): Liyao Yin, Shen Wang, Wang Zhenbang, Tian Shigang, and Dechen Zhan

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Paper Title: Robust image hashing based on histogram reconstruction

Author(s): Yao Jia, Chen Cui, Zhenbang Wang, Shigang Tian, and Shen Wang

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Smart Grid PKI

Author(s): Ding-Wen Hsu, Hsuan-Tung Chen, Hung-Min Sun, Tsan-Yu Huang

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Paper Title: A Nonconvex Total Variation Based Method for SAR Image Despeckling

Author(s): Chao Wang, Baolong Guo, and Cheng Li

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Paper Title: Improved ShuffleNetV2 for Garbage Image Classification

Author(s): Jinghan Zhang, Cheng Li, and Baolong Guo

**Paper ID: IIHMSp-2022-IS01-07**

Paper Title: Extraction of Small Water Bodies based on HRNet

Author(s): Zhaolei Liu, Yulin Cai, Sichao Wang, and Hongzhen Gao

**Paper ID: IIHMSp-2022-IS01-08**

Paper Title: Land Cover Classification of Yellow River Delta based on Hybrid  
Convolutional Residual Network

Author(s): Yulin Cai, Sichao Wang, Xiaoqing Zhang, Zhaolei Liu, and Hongzhen  
Gao

**Paper ID: IIHMSp-2022-IS01-09**

Paper Title: Research on Carbon Emission Prediction Method Based on Deep  
Learning: A Case Study of Shandong Province

Author(s): Qingqing Qi and Xiaoqing Zhang

**Paper ID: IHMSP-2022-IS01-10**

Paper Title: Many-Objective Evolutionary Algorithm Based on Improved Dominance Relation

Author(s): Zhen-yu PEI, Ze-yuan YANG, Geng-geng LIU, Jeng-Shyang Pan

**Paper ID: IHMSP-2022-IS01-11**

Paper Title: SRPose: Low Resolution Human Pose Estimation with Super-Resolution

Author(s): Xiyue Sun, Feng Li, Huihui Bai, Rongrong Ni, and Yao Zhao

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Paper Title: UAV Formation Group Consistency Control Method Considering Time-Varying Formation

Author(s): Tianye Sun, Wei Sun, Xuyang Zhou, Jianjun Wu, and Wei Lu

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Paper Title: An Opposition-Based Beluga Whale Optimization

Author(s): Shi-Lei Xu, Qing-Wei Chai, Wei-Min Zheng, Jeng-Shyang Pan, and Pei Hu

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Author(s): Zi-Nan Liu, Bin Yan, Tao Liu, Jeng-Shyang Pan, and Hong-Mei Yang

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Author(s): Ning-Kang Pan, Ping Kang, and Li Lv

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Paper Title: Explainable Chance-Constrained Programming for VR Video Resource Allocation

Author(s): Jeng-Shyang Pan, Pei-Cheng Song, Shu-Chuan Chu, Junzo Watada, and Jun-Bao Li

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Paper Title: An Efficient Multilevel Threshold Image Segmentation Approach Based on Rafflesia Optimization Algorithm

Author(s): Jin-Liang Zhou, Shu-Chuan Chu, Shaowei Weng, and Wei-Min Zheng

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Paper Title: Distributed Face Biometric with Blockchain Federated Learning

Author(s): Kuo-Kun Tseng, Tian Tan, and Juan David Guerra Veloz

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Paper Title: Region Guide Point for Depth Estimation

Author(s): Wang Jun and Kuo-Kun Tseng

**Paper ID: IIHMS-2022-IS01-20**

Paper Title: Research on PLC Communication Technology in Intelligent Loading Control System

Author(s): Wenling Zhou and Botao Liu

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Paper Title: Combined Synchronization for Fractional-order Chaotic Systems with Time Delay

Author(s): Wenhao Yan, Wenjie Dong, Zijing Jiang, Xin Huang, and Qun Ding

**Paper ID: IIHMS-2022-IS01-22**

Paper Title: A New Four-dimensional Discrete Chaotic System Is Used for S-box Masking

Author(s): Zijing Jiang, Wenjie Dong, and Qun Ding

**Paper ID: IIHMS-2022-IS01-23**

Paper Title: A Parallel Gannet Optimization Algorithm with Communication Strategies (PGOA)

Author(s): Jing-Bo Su, Ruo-Bin Wang, Fang-Dong Geng, Qiang Wei, and Lin Xu

**Paper ID: IIHMS-2022-IS01-24**

Paper Title: Adaptive Target Tracking Algorithm Based on Template Updating and Graph-regularized Saliency

Author(s): Xiang Gao, Yafei Wang, Lingxia Zhang, and Yunyi Yan

**Paper ID: IIHMS-2022-IS01-25**

Paper Title: Fault Detection Method of Insulator Image based on Gabor Texture and Convolutional Neural Network

Author(s): Xiaoquan Chu, Wenwen Gong, Yunpeng Gao, and Fujia Han

**Paper ID: IIHMS-2022-IS01-26**

Paper Title: RGB-T Target Tracking based on Saliency with Graylevel Co-occurrence Matrix and KCF

Author(s): Shuaijiang Hu

**Paper ID: IIHMS-2022-IS01-27**

Paper Title: An Optimal Power System Multi-objective Environmental Economic Planning Based on Moth-FLame Optimization

Author(s): Shu-Chuan Chu, Pei Hu, Trong-The Nguyen, Vinh-Tiep Nguyen, Trinh-Dong Nguyen, and Thi-Kien Dao

**Paper ID: IIHMS-2022-IS01-28**

Paper Title: A Power-System Economic Dispatching Based on Enhanced Group Search Optimizer

Author(s): Jeng-Shyang Pan, Pei Hu, Trong-The Nguyen, Trinh-Dong Nguyen, Vinh-Tiep Nguyen, and Thi-Kien Dao

**Paper ID: IIHMS-2022-IS01-29**

Paper Title: Research Review on Security Protection Scheme of Distributed PV Grid Connected Network

Author(s): Xin LIU, He WANG, Xi LI, Qigui NIE, Jing LIU, Hongri LIU, and Wenting WANG

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Paper Title: A Method of Constructing Fine-grained Pose Evaluation Model

Author(s): Zhen Song, Longfei Zhang, Haoyu Li, Yufeng Wu, and Gangyi Ding

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Paper Title: Research on Meteorological Public Opinion Combining Domain Keywords and LinearSVC

Author(s): Sheng Yan, Feng Zhou, Hongmei Luo, Lina Zhu, and Yugui Chen

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Author(s): Jiahe Liu, Rui Song, and Xiaopeng Shen

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Paper Title: A Novel Algorithm for Video Frame Prediction based on Convolutional Neural Network

Author(s): Ming Zhao, Tie Luo, Bingxue Zhou, and Jeng-Shyang Pan

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Paper Title: GVNet: Graph-Voxel Fusion Network for 3D Object Detection

Author(s): Yu-Bing Li, An-Hong Wang, Hao Jing, and Dong-Han Bu

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Paper Title: Relation Extraction Model based on Global Pointer and Potential Relation Embedding

Author(s): Han Yang and Yulong Qiao

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Author(s): Jhe-Yu Jiang, Hui Yu Shen, and Chao-Hsing Hsu

**Paper ID: IIHMS-2022-IS01-37**

Paper Title: Representing Scenes as Compositional Generative Neural Feature Fields based on GIRAFFE for 3D Reconstruction of Classroom Scenes

Author(s): Tianlin Fu, Renyu Deng, Yue Gao, and Fuquan Zhang

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Author(s): Gang Ke, Jianjun Xu, and Jun Yang

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Paper Title: Short-term Forecast based on Generalized Maximum Correntropy Criterion and Kernel Extreme Learning Machine

Author(s): Mi Zhou, Renli Cheng, Bin Qian, Yuxiang Chu, and Fusheng Li

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Paper Title: A Document Management System with Multi-biometric Watermarking for Educational Purpose



**Paper ID: IHMSP-2022-IS02-01**

Paper Title: Radar Waveform Gaming Configurable Framework Based on Deep Reinforcement Learning

Author(s): Feng Xie, Ying Kang, and Huanyu Liu

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Paper Title: Super Resolution of Unpaired MR Images based on Domain Migration

Author(s): Xiaodong Liu, Haipeng Guo, and Huanyu Liu

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Paper Title: Optical Stealth Algorithm Under Photoelectric Countermeasures and Its Effectiveness Evaluation

Author(s): Zhonglin Yang, Yutong Jiang, Junbao Li, and Qiong Li

**Paper ID: IHMSP-2022-IS04-01**

Paper Title: Brainwave Analysis of the Correlation between Listening to the Rain/Water Sounds and Decreasing Human Body Temperature

Author(s): Fu Jie Tey, Tin-Yu Wu, Mei-Yin Liu, and Yi-Kai Chen

**Paper ID: IHMSP-2022-IS04-02**

Paper Title: Detection of Unknown DDoS Attack using Modified Dynamic High-Resolution Network

Author(s): Chin-Shiuh Shieh, Thanh-Tuan Nguyen, Chun-Yueh Chen, Thanh-Nghia Nguyen, Thanh-Vinh Nguyen, and Mong-Fong Horng

**Paper ID: IHMSP-2022-IS04-03**

Paper Title: Fern Detection of Saliva Sample Improved by Tone Equalization and Edge Detection

Author(s): Jian-Yu Chen, Hui-Yu Chung, Chu-Wei Kuo, Chin-Shiuh Shieh, and Mong-Fong Horng

**Paper ID: IHMSP-2022-IS04-04**

Paper Title: Data Augmentation Based on Topic Relevance to Enhance Text Classification in Scarcity of Training Data

Author(s): Ming-Xian Zou, Chun-Chih Lo, Chih-Hsueh Lin, Chin-Shiuh Shieh, and Mong-Fong Horng

**Paper ID: IHMSP-2022-IS04-05**

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Author(s): I-Hsien Liu, Jie-Shin Chen, Kuan-Ming Su, and Jung-Shian Li

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Author(s): Tzung-Pei Hong

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Paper Title: Computational Intelligence & AI-FML Experience Model for Pre-University Student Learning and Practice

Author(s): Chang-Shing Lee, Mei-Hui Wang, Rin-Pin Chang, Hsiao-Chi Liu, Yu-Cheng Chang, Lu-An Lin, and Shen-Chien Chen

**Paper ID: IIHMS-2022-IS05-01**

Paper Title: Spoken Dialogue System Development without Speech Recognition Towards Language Revitalization

Author(s): Akinori Ito

**Paper ID: IIHMS-2022-IS05-02**

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Author(s): Yuki Fukazawa, Akinori Ito, and Takashi Nose

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**Paper ID: IIHMS-2022-IS05-03**

Paper Title: Psychoacoustic Study of Japanese Mimetics for Food Textures

Author(s): Alexander Raevskiy, Shuichi Sakamoto, and Nobuyuki Sakai

**Paper ID: IIHMS-2022-IS05-04**

Paper Title: Prediction of Engagement from Facial Expressions: Effect of Dynamic Factors

Author(s): Haruka Kato, Koki Takahashi, Yasuhiro Hatori, Yoshiyuki Sato, and Satoshi Shioiri