

# **CONFERENCE SCHEDULE**

**2022 IEEE International Conference on Artificial Intelligence and  
Computer Applications (ICAICA 2022)**

**June 24-26, 2022 Dalian, China**

**[www.icaica.org](http://www.icaica.org)**



## ICAICA 2022 Program (GMT+8:00 Beijing Time)

<b>June 24, 2022</b>	
<b>09:00 – 18:00</b>	<b>Online Registration</b>
<b>June 25-26, 2022    Poster Presentation Session</b>	
<b>08:00 – 18:00</b>	<b><a href="http://icaica.org/Posters.html">http://icaica.org/Posters.html</a></b>
<b>Poster Session 1</b>	AA006, AA007, AA016, AA037, AA045, AA055, AA057, AA066, AA067, AA090, AA095, AA107
<b>Poster Session 2</b>	AA116, AA128, AA143, AA149, AA173, AA197, AA198, AA214, AA266, AA317, AA407
<b>June 25-26, 2022    Oral Presentation Session(Tencent Meeting)</b>	
<b>June 25, 08:00 – 12:00</b>	<b>Session A, B, C, D</b>
<b>June 25, 14:00 – 18:00</b>	<b>Session E, F, G, H(Poster Session 1)</b>
<b>June 26, 08:00 – 12:00</b>	<b>Session I, J, K, L(Poster Session 2)</b>
<b>June 26, 14:00 – 18:00</b>	<b>Session M, N</b>
<b>Session A Meeting ID: 891-965-956</b>	AA008, AA009, AA011, AA014, AA027, AA031, AA036, AA041 AA043, AA046, AA050, AA063, AA064, AA101, AA123, AA194
<b>Session B Meeting ID: 189-842-231</b>	AA018, AA054, AA056, AA058, AA060, AA061, AA062, AA069 AA077, AA080, AA085, AA086, AA087, AA088, AA089, AA091
<b>Session C Meeting ID: 409-263-123</b>	AA093, AA094, AA098, AA099, AA102, AA104, AA105, AA109 AA111, AA112, AA113, AA115, AA121, AA122, AA125, AA126
<b>Session D Meeting ID: 693-973-741</b>	AA129, AA130, AA132, AA133, AA134, AA137, AA139, AA141 AA144, AA145, AA146, AA150, AA152, AA153, AA154, AA157
<b>Session E Meeting ID: 692-768-351</b>	AA004, AA024, AA034, AA053, <b>Keynote Speech(1 hour)</b> AA059, AA068, AA070, AA072, AA073, AA079, AA082, AA189
<b>Session F Meeting ID: 869-820-965</b>	AA158, AA160, AA162, AA163, AA165, AA166, AA168, AA171 AA175, AA176, AA177, AA178, AA179, AA180, AA183, AA186

<b>Session G</b> <b>Meeting ID: 429-402-415</b>	AA188, AA190, AA192, AA196, AA199, AA200, AA201, AA202 AA204, AA206, AA207, AA209, AA210, AA211, AA212, AA215
<b>Session I</b> <b>Meeting ID: 326-254-446</b>	AA217, AA218, AA220, AA228, AA251, AA267, AA269, AA271 AA276, AA277, AA278, AA280, AA281, AA282, AA283, AA286
<b>Session J</b> <b>Meeting ID: 611-776-538</b>	AA289, AA290, AA293, AA294, AA299, AA300, AA303, AA304 AA308, AA313, AA314, AA315, AA318, AA320, AA321, AA322
<b>Session K</b> <b>Meeting ID: 986-804-451</b>	AA325, AA326, AA329, AA332, AA333, AA335, AA339, AA341 AA344, AA345, AA349, AA351, AA352, AA354, AA359, AA360
<b>Session M</b> <b>Meeting ID: 281-184-932</b>	AA364, AA365, AA368, AA370, AA371, AA373, AA375, AA377 AA380, AA383, AA390, AA391, AA396, AA397, AA398, AA399
<b>Session N</b> <b>Meeting ID: 547-817-767</b>	AA400, AA401, AA402, AA403, AA406, AA409, AA411, AA412 AA414, AA415, AA420, AA421, AA423, AA425, AA426, AA430

**Note: All the time listed is based on GMT+8:00 Beijing Time.**

**Online meeting software is Tencent Meeting.**

## Session A

AA008	<b>An FPGA-Based BNN Real-Time Facial Emotion Recognition Algorithm</b>
	<i>Guodong Zhao, Wei Wei, Xiaofei Xie, Shida Fan, Kai Sun</i>
AA009	<b>A CNN-Based Thoracic Vertebrae and Rib Localization Method</b>
	<i>Wei Wang, Tian Tian, Likai Song, Mingxin Zhao, Wei Huang</i>
AA011	<b>Computer-Aided Polyp Image Segmentation Using A Residual Attention Convolutional Neural Network</b>
	<i>Weiji Jing, Zhiqin Qian, Mingda Zhang, Qi Luo</i>
AA014	<b>SLPM based Snake-like Robot</b>
	<i>Zheming Zhuang, Yuntao Guan, Ze Zhang, Wei Wei, Zhao Tang, Jiansheng Dai</i>
AA027	<b>Pedestrian attribute recognition in elevator</b>
	<i>Pengyuan Zhang, Yi Shi</i>
AA031	<b>Multi-Mode Integrated Forecast of Surface Temperature based on Random Forest</b>
	<i>Sha Luo, Chen Ren, Jian Zhou, Yong Wu, Bing Wang, Xiangyi Xu</i>
AA036	<b>Identification of the closing position of scissor-type disconnectors based on a U-net network</b>
	<i>Xuan Liu, Ailing Zhang, Renbo Wu, Jian Xiao, Yongjun Wei</i>
AA041	<b>Simulation and Optimization Research on Equipment Configuration of Coal Terminal Loading and Unloading Operation Systems</b>
	<i>Tianli Zuo, Wei Li, Zhen Cao, Cheng Li</i>
AA043	<b>A Top-View Multiple People Tracking System based on Newest YOLOv5 and DeepSort Using Depth Data</b>
	<i>Xianglong You, Dongxiao Li, Ming Zhang</i>
AA046	<b>A novel transfer learning approach to predict student performance based on CNN-GWO</b>
	<i>Jifeng Song, Shi Yin</i>
AA050	<b>Objective Assessment of the Wrist Function Loss of Post-Stroke Patients in Haptic Virtual Environment based on Neural Network and Support Vector Machine</b>
	<i>Pan Chen, Zhiqin Qian, Ziye Song, Chun Yang, Wenjun Zhang</i>
AA063	<b>Real-time Monitoring of Ship Targets at Sea based on Jetson Nano</b>
	<i>Yao Wang, Yuan Zhang, Kainuo Chen</i>

AA064	<b>Circuit Design and Simulation of Acoustic Wave Instrument based on STM32</b>
	<i>Ju Liang, Li Hui, Wei Zheng, Junhe Wan</i>
AA101	<b>A Time-optimal Trajectory Control Method for Bridge Cranes with Conditional Constraints</b>
	<i>Yanyang Liang, Renxing Li, Chenmin Lin, Tianlei Wang, Hongmin Wang, Jiehong Liang</i>
AA123	<b>Fault Diagnosis of Active Phase Change Control Device based on SGSSA-BP Neural Network</b>
	<i>Jishuang Lin, Yanxing Zhao, Baochun Cui, Zhibin Li</i>
AA194	<b>MCCA: Multimodal clothing compatibility learning based on channel attention</b>
	<i>Xiong Wei, Kun Yan, Li Li</i>

### Session B

AA018	<b>Novel Representation of Robotic Grasp Detection based on Residual Hourglass Architecture</b>
	<i>Xiyuan Gao, Wei Tang, Pengwei Xie, Guijin Wang</i>
AA054	<b>Application of multi-objective and multi-population particle swarm optimization algorithm in capacity optimization</b>
	<i>Qiqi Zhang, Liping Wu, Qun Chen</i>
AA056	<b>Based on Lightweight Network and Multiple Supervised Hash for Image Retrieval</b>
	<i>Zhuang Chen, Jiahao Qiu, Yuan Zhao</i>
AA058	<b>Comparison of Random Data Clusters Classification based on three Neural Networks Weight Training Methods</b>
	<i>Zirui Chen, Aijun Zhu</i>
AA060	<b>Analysis of Line Protection Mal-operation Caused by Abnormal Grounding of Voltage Secondary Circuit</b>
	<i>Changlong Zhao, Jiapeng Cui, Mingyu Xu, Yifan Dong, Erjia Dong, Huaiyu Guo</i>
AA061	<b>Intelligent Classification of Tobacco Leaves based on Residual Network</b>
	<i>Deji Wang, Guangcai Li, Huanju Zhen, Cuilan Wang</i>
AA062	<b>Abnormal analysis of moisture content of tobacco leaves by big data based on XGboost model</b>
	<i>Deji Wang, Jiawen Hou, Dongdong Wang, Cuilan Wang</i>

AA069	<b>An Android Malware Detection Method Using Deep Learning based on Multi-features</b>
	<i>Menglong Chen, Quan Zhou, Kemeng Wang, Zhikang Zeng</i>
AA077	<b>Design of vision system of transceiver robot based on Halcon</b>
	<i>Zhimin Mei, Dong Li, Tingyu Chen, Chengzheng Yu</i>
AA080	<b>Channel Allocation Strategy based on Traffic Distribution in Ultra-Dense Networks</b>
	<i>Xueliang Gao, Yaoting Hou, Kai Sun</i>
AA085	<b>Encoding and Decoding Algorithms of Relay Satellite Wireless Data Transmission System</b>
	<i>Fang Yuan, Nan Ye, Xiaoran Li, Yifeng He</i>
AA086	<b>Energy Consumption Optimization Method for Wireless Communication Data Transmission in Cloud Environment</b>
	<i>Xu Hengbo, Chen Yu</i>
AA087	<b>Design of high isolation CWDM narrow-band pass filter</b>
	<i>Qi Sun, Zhi Zhang, Meijiao Wang</i>
AA088	<b>Road Crack Recognition based on Deep Learning</b>
	<i>Yi Xiang, Luqiao Zhang, Shasha Mo, Xingyu Lu, Chunling Li</i>
AA089	<b>Comprehensive Design and Simulation Study of the Dynamic Voltage Restorer</b>
	<i>Tiankuo Wang, Lei Lu, Longfei Yu, Jia Huang, Qing Wei, Peng Lu</i>
AA091	<b>Design of 620~800nm interference cut-off filter</b>
	<i>Xiaoting Kan, Shuai Huang</i>

### Session C

AA093	<b>Research on Interactive Landscape Design based on Virtual Reality Technology</b>
	<i>Wang Chuan</i>
AA094	<b>Smoking Degree Assessment System based on Upper Limb Resistance Training</b>
	<i>Bochao Zhang, Zhao Yang, Jiping Wang</i>
AA098	<b>Research on the Controllability of a Class of Nonlinear Intelligent Systems based on Fractional Order Analysis</b>
	<i>Lei Qi</i>

AA099	<b>Energy Internet Oriented FlexE Hierarchical Business Hosting Mechanism</b>
	<i>Hao Cai, Dayang Wang, Yi Shu, Pei Li, Jiang Song, Jincheng Zhao</i>
AA102	<b>Least Mean Square Algorithm Based on Bessel Function and Multiscale Wavelet Transform</b>
	<i>Youqing Lu, Wei He, Zhongrong Lai, Jingbin Jia</i>
AA104	<b>RSSI Distance Model Based on BP Neural Network</b>
	<i>Jiahao Dang, Wei Xue, Longfei Ci, Ming Zheng, Jincheng Gao, Yidong Xu</i>
AA105	<b>Signal detection and modulation recognition based on convolutional neural networks</b>
	<i>Yuguang Luo, Mingdong Xu, Zhilu Wu, Zhendong Yin</i>
AA109	<b>DOA Estimation based on Deconvolution Beamforming-based Unrolling Neural Network*</b>
	<i>Tong Yang, Liang Wang, Xiaolei Li</i>
AA111	<b>Semi-Supervised Cloud Detection for Remote Sensing Imagery via Self-Training</b>
	<i>Chao Zhao, Xiang Zhang, Hangzai Luo, Sheng Zhong, Lei Tang, Jinye Peng, Jianping Fan</i>
AA112	<b>Architecture Model Analysis and Optimization of Complex System Based on Data Farming</b>
	<i>Xiaokai Xia, Gang Xiao, Zhiqiang Fan, Dongyi Lin</i>
AA113	<b>Life cycle inventory database design for mechanical products</b>
	<i>Jiawei Li, Yingzhong Zhang, Jinghai Tian</i>
AA115	<b>Task Offloading and Resource Allocation Scheme based on Cooperative Game</b>
	<i>Zhang Benhong, Han Liang, Bi Xiang</i>
AA121	<b>Structural calculation analysis and comparative study of 80m through tied-arch bridge</b>
	<i>Can Huang, Yue Wang, Xiaoyong Zhou, Lingfeng Yue</i>
AA122	<b>Research on Safety Control System based on Heterogeneous Dual CPU</b>
	<i>Xiaojie Zhang, Guanghe Cheng, Jingyao Xu, Xinxin Wang, Daquan Cheng, Ruirui Sun</i>
AA125	<b>Study on soft sensing of glutamic acid fermentation process based on LS-SVM</b>
	<i>Chunming Zhang, Zhiliang Li, Yiyue Sun</i>

AA126	<b>Research on Improved Control Algorithm of Quadrotor UAV based on Fuzzy PID</b>
	<i>Wencheng Song, Zhibin Li, Bohan Xu, Shengjie Wang, Xiangrui Meng</i>

### Session D

AA129	<b>Research on anomaly detection of gas-insulated switchgear based on transfer learning</b>
	<i>Kejian Zhou, Hui Xu, Yongxiang Li, Dexin Nie, Zhixiang Liu, Ming Zhu</i>
AA130	<b>Evaluation of Safety Target Level of Unmanned Aerial Vehicle System in Fusion Airspace</b>
	<i>Liang Tong, Xusheng Gan, Lixin Yu, Honghong Zhang</i>
AA132	<b>UAV Flight Conflict Resolution Method based on Improved Artificial Bee Colony Algorithm</b>
	<i>Jie Zhu, Zhiyong Hu, Xusheng Gan, Yarong Wu</i>
AA133	<b>Research on UAV Flight Conflict Resolution based on ABC Algorithm</b>
	<i>Zhiyong Hu, Xusheng Gan, Yarong Wu, Minghua Wang</i>
AA134	<b>Software Vulnerability Prediction based on Statistical Learning</b>
	<i>Yiyi Liu, Minjie Zhu, Yilian Zhang, Yan Chen</i>
AA137	<b>Design of a Radar Transceiver Integrated Control Unit based on FPGA</b>
	<i>Liu Rumeng, Li Bin, Han Tao</i>
AA139	<b>Intelligent computing scheme of blockchain based on trusted execution environment</b>
	<i>Diao Xiaohong, Jiang Linru, Jin Yuan, Cheng Lin, Li Taoyong, Li Bin</i>
AA141	<b>Intelligent Close Air Combat Design based on MA-POCA Algorithm</b>
	<i>Bangchu Zhang, Zedong Wei, Weiyu Zhu</i>
AA144	<b>Abnormal Behavior Recognition System based on Improved CRNN Model</b>
	<i>Yuanyao Lu, Zheng Xu, Jingxuan Wang</i>
AA145	<b>Shear wave prediction method of tuffaceous reservoir based on LSTM cyclic neural network</b>
	<i>Dong Meng</i>
AA146	<b>Situation Awareness and Target Recognition of Marine Big Data Battlefield based on Deep Learning</b>
	<i>Zhai Yongcui</i>



AA150	<b>Subsurface Lithofacies Identification with Meta Learning</b>
	<i>Ting Xu, Wenting Zhang, Haining Liu, Yu Kang, Wenjun Lv</i>
AA152	<b>Method for improving endurance and breakdown characteristics of metal/ferroelectric/metal capacitor by modulating deposition cycle ratio</b>
	<i>Denghuai Tian, Hao Xu, Jing Zhang</i>
AA153	<b>Ways to detect ambient parameters by UAV</b>
	<i>Songsheng Li</i>
AA154	<b>Detection of epidemic prevention and control behavior based on the yolov3-spp pruning model</b>
	<i>Junxiong Liang, Huan Lei, Zeyu Jiao, Kanglin Yang, Chentong Li, Zhenyu Zhong</i>
AA157	<b>Development and application of a secure and stable remote testing system based on RTDS</b>
	<i>Zhe Yu, Dongxu Chang, Xiaoli Wang, Zuyi Ren, Jun Du, Xingjian Li, Hailian Shu</i>

### Session E

AA004	<b>Extract Data Points from Invoices with Multi-layer Graph Attention Network and Named Entity Recognition</b>
	<i>Chao Zhang, Baihua Li, Eran Edirisinghe, Chris Smith, Rob Lowe</i>
AA024	<b>Using Financial Ratios with Artificial Neural Networks for Bankruptcy Prediction</b>
	<i>Chaminda Thilakarathna, Christian Dawson, Eran Edirisinghe</i>
AA034	<b>Modeling Operational Scenarios for Simulation-based Validation of Technical Systems</b>
	<i>Ulrich Dahmen, Tobias Osterloh, Jürgen Roßmann</i>
AA053	<b>Automatic COVID-19 Diagnostic and Classification Intelligent System (ACDCIS)</b>
	<i>Mohammed Faisal Naji, Fahad Alzamil, Mohammed Alajaj, Musaad Alshaqran, Fahad Alateeq</i>
AA059	<b>ResNet Does Not Perform Intelligent Understanding of Picture in Image Recognition</b>
	<i>Allegra Allgeier, Austin Au-Yeung, Heinrich Matzinger</i>
AA068	<b>A Deep Reinforcement Learning Agent for General Video Game AI Framework Games</b>
	<i>Eddah K. Sure, Xiaofeng Wang</i>

AA070	<b>A Detection Approach of Bridge Fault Number for Optical Router</b>
	<i>Aijun Zhu, Mengyuan Xu, Junhao Niu, Chunting Wan, Cong Hu, Chuanpei Xu</i>
AA072	<b>Research on fuzzy control of stepper motor based on adaptive neuro-fuzzy inference system</b>
	<i>Kun Hu</i>
AA073	<b>Simulation research of improved internal model algorithm in temperature control of ceramic tooth sintering furnace*</b>
	<i>Yanchun Wang, Yanan Li, Chaoran Liu, Changjun Guan, Guanghong Han</i>
AA079	<b>A Handover Assistance Algorithm based on SDN and Machine Learning</b>
	<i>Zongchang Yang, Xiantao Liu, Mengting Wu, Wei Huang</i>
AA082	<b>The Distance Distribution of FHPPP Model in User-Centric Cooperative Wireless Network</b>
	<i>Yi Jiang, Ying Su, Wei Huang</i>
AA189	<b>LM-SVM-DT Based Working State Recognition for Washing Machine's Audio Signal</b>
	<i>Yuping Hu, Cuiyun Gao, Xiaohong He, Zhonghai Lu</i>

## Session F

AA158	<b>Training Deep Neural Networks with Large-scale Datasets on Sunway High Performance Computer</b>
	<i>Rui Liu, Jie Jia, Yue Zhou, Yucong Zhou, Yi Liu</i>
AA160	<b>Research on the Construction Method of Standardized Cost Breakdown Structure based on Equipment Feature Information Extraction</b>
	<i>Chen Duanying, Liu Baohua, Du Naihan</i>
AA162	<b>Action Recognition based on Video Spatio-Temporal Transformer</b>
	<i>Mingyang Qiao, Tiantian Yuan</i>
AA163	<b>Design and application of virtual test platform of aircraft cockpit environment control system</b>
	<i>Shuang Wu, Xianzhu Shi</i>
AA165	<b>Design of Parking Guidance and Reverse Car-Searching System based on Barcode</b>
	<i>Zhigang Li, Xiaoxiao Li, Tianhao Zhang</i>

AA166	<b>Sign language translation based on new continuous sign language dataset</b>
	<i>Shi Feng, Tiantian Yuan</i>
AA168	<b>Research on Software Reliability Design Verification Technology based on Criterion Knowledge</b>
	<i>Zhaowei Xu, Lijin Wu, Zehua Shen</i>
AA171	<b>LSTM -Attention Mechanism based Remaining Useful Life Prediction of Lithium Batteries</b>
	<i>Bolun Bill Fan, Yirui Ray Chu, Yida Alex Wang, Qiang Jason Fu</i>
AA175	<b>Research on Safety of New Energy Vehicles based on Big Data</b>
	<i>Zekun Zhang, Peng Liu, Xiang Zhang, Ni Lin</i>
AA176	<b>Lunar Crater Detection based YoloV5 using CCD Data</b>
	<i>Kexin Tang, Jiarui Liang, Pengcheng Yan, Xiaolin Tian</i>
AA177	<b>Hierarchical Identification Method of Household-Transformer Relationship based on Adaptive Piecewise Aggregation Approximation</b>
	<i>Jingyun Liu, Hongnan Ren, Linhan Xie, Xiao Liu, Shengqiang Zhang, Lishuo Chen</i>
AA178	<b>Adversarial Detection based on Local Cosine Similarity</b>
	<i>Dejian Guan, Dan Liu, Wentao Zhao</i>
AA179	<b>Research on numerical simulation of subway station fire based on IFC-FDS integration</b>
	<i>Yi Saili, Liu Zhixing</i>
AA180	<b>Mars crater detection based on Yolo structure using TIR data</b>
	<i>Mingyang Li, Jiarui Liang, Pengcheng Yan, Xiaolin Tian</i>
AA183	<b>Research on reactive power optimization configuration of distribution network based on small hydroelectric generating units</b>
	<i>Yi Liu, Qiaoling Zhang, Jing Li, Yonggang Peng</i>
AA186	<b>DbRMP: Predicting Douban Rating of Movies with high-dimensional Features by Comprehensive Machine Learning Algorithms</b>
	<i>Haoyu Yu, Min Fu</i>

## Session G

AA188	<b>Research on increasing power consumption of transmission line by segmented parallel resonance in power network</b>
	<i>Chengren Su, Jia Zuo, Wei Bo</i>

AA190	<b>Research on temperature prediction of subway transformer based on LSTM</b>
	<i>Gong Mengrong, Liu Hongjian</i>
AA192	<b>Detect the Video Recording Act of UAV through Spectrum Recognition</b>
	<i>Sixue Lu, Wen Wang, Meng Zhang, Bingyang Li, Yushan Han, Degang Sun</i>
AA196	<b>TransUNet with Attention Mechanism for Brain Tumor Segmentation on MR Images</b>
	<i>Enhao Wang, Yaqi Hu, Xiaoniu Yang, Xiaolin Tian</i>
AA199	<b>Analysis of the reaction system of C4 olefin prepared by ethanol coupling based on machine learning</b>
	<i>Zhengfei Shui, Yuxin Huo</i>
AA200	<b>Cluster Analysis based on HDWA-Kmeans Algorithm Assisted Identification of Poor Students</b>
	<i>Silin Li</i>
AA201	<b>An Expression Recognition Method based on Improved Convolutional Network</b>
	<i>Haoze Wang</i>
AA202	<b>A New Approach for Liver Plus Its Tumor Segmentation in CT Image by TransNUNet</b>
	<i>Yaqi Hu, Xiaoniu Yang, Xiaolin Tian</i>
AA204	<b>Research on Retention Prediction Based on Multi - Feature Combination</b>
	<i>Silin Li</i>
AA206	<b>Research on Gradient-based Low-energy Routing Protocols</b>
	<i>Yang Zhikai, Li Yongzhen</i>
AA207	<b>Air Quality Level Prediction Based on Multilayer Perceptron and B-P Back Propagation Algorithm</b>
	<i>Wang Xiaowei</i>
AA209	<b>Research on Intelligent Testing Method of Relay Protection Equipment based on Machine Learning Model</b>
	<i>Zhenmin Zhu, Wohu Niu, Baozhong Su, Qiang Liang</i>
AA210	<b>Reinforcement Learning Path Planning based on Step Batch Q-Learning Algorithm</b>
	<i>Zhiqian Yin, Wei Cao, Tao Song, Xu Yang, Tianhao Zhang</i>

AA211	<b>Research on Power Data Mining Algorithm based on Transfer Learning</b>
	<i>Bo Shi</i>
AA212	<b>Research on Blockchain Consensus Algorithm based on DWBA Protocol</b>
	<i>Jialing Fang</i>
AA215	<b>Research on Multi-NPC Marine Game AI System based on Q-learning Algorithm</b>
	<i>Fanmo Meng, Cho Joung Hyung</i>

### Session I

AA217	<b>Research on Construction of BIM Building View based on Deep Convolutional Neural Network</b>
	<i>Junmin He, Kaixi Xiao, Baichao Xiao, Zhimin Chen</i>
AA218	<b>Financial Crisis Prediction based on Genetic Algorithm and LS-SVM</b>
	<i>Rui Guo</i>
AA220	<b>Research on the detection method of ship pipeline leakage based on visual sound source localization technology</b>
	<i>Yimeng Du</i>
AA228	<b>Collaborative Optimization of Economic and Social Benefits of Power Transmission and Transformation Project Based on Nsga-II Intelligent Algorithm</b>
	<i>Shengjie Wang, Weijun Wang, Liao Su, Qing Tang</i>
AA251	<b>Assessment Model for the Degree of Digital Enterprises Based on a GA-BP Neural Network</b>
	<i>Lu Zhao</i>
AA267	<b>Multi-scale nested model optimal fitting software for spatial estimation variogram of heavy metals in soil: framework, design and implementation</b>
	<i>Shanshan Cao, Wei Sun, Fantao Kong, Jifang Liu</i>
AA269	<b>Research on Personalized Recommendation Service of Mobile Library Based on User Portrait</b>
	<i>Huili Xue, Kongsheng Guo, Fen He</i>
AA271	<b>An Improved Convolutional Neural Network with Reservoir Computing for Boiler Four Tube</b>
	<i>Boyang Ma</i>

AA276	<b>Image classification method based on convolutional neural network for boiler four tube</b>
	<i>Zhi Yuan</i>
AA277	<b>Flappy Bird: Optimization of Deep Q-Network by Genetic Algorithm</b>
	<i>Ruohong Gan</i>
AA278	<b>Research on Indoor Location Algorithm based on WiFi technology</b>
	<i>Huanhuan Liu, Bin Hao, Jingzhao Yang</i>
AA280	<b>Parallel computing and its applications</b>
	<i>Yukai Huang</i>
AA281	<b>Incentive demand response model and evaluation considering the uncertainty of resident user participation</b>
	<i>Yafei Li, Jie Li, Kejun Qian, Yi Liu, Zhong Zheng</i>
AA282	<b>Voiceprint recognition check-in system based on deep learning</b>
	<i>Jie Dong, Ruxin Zheng, Yanyan Fang</i>
AA283	<b>A structure of movable dust collector on the principle of air amplification</b>
	<i>Hengxin Zhong, Yaodan Xiao</i>
AA286	<b>Research and analysis on the development of photovoltaic building integration plate index based on LSTM prediction model</b>
	<i>Zhizheng Lai</i>

## Session J

AA289	<b>Predicting Stock Price Using Convolutional Neural Network</b>
	<i>Kaiye Li</i>
AA290	<b>Design of Steel Surface Defect Detection System Based on deep Learning</b>
	<i>Mingshan Liu, Yifei Huang, Yuanli Xie</i>
AA293	<b>Support Vector Machine Algorithm in Machine Learning</b>
	<i>Qiyu Wang</i>
AA294	<b>Research on Text Summarization Generation and Classification Method Based on Deep Learning</b>
	<i>Xiaohan Fang, Tingting Xiao, Shencheng Liu</i>
AA299	<b>Power Quality Data Collection and Application in Distribution Network</b>
	<i>Weijun Zhou</i>

AA300	<b>Construction of hybrid equivalent model based on FDS and analysis of test results</b>
	<i>Dacai Chen, Xue Chen, Jiyu Li, Longwei Wu</i>
AA303	<b>Commercial Truck AEBS Test and Research Based on Pedestrian Crossing Scenario</b>
	<i>Chen Tao, Zhuo Kaimin, Jiang Zhuofan, Zhang Yue</i>
AA304	<b>Research on High-definition Image Classification Processing System of Water Target Objects under Computer Image Recognition Technology</b>
	<i>Yingying Liu, Guangzhong Liu</i>
AA308	<b>A Self-Attention Based Joint Sequence Labeling Model</b>
	<i>Eryong Wu, Xiaoming Liu, Yun Chen, Tao Zhang</i>
AA313	<b>Multi-Objective Dynamic Economic Dispatch of Active Distribution Network Considering User Satisfaction</b>
	<i>Yi Liu, Keqin Han, Kejun Qian, Yafei Li, Ying Xie</i>
AA314	<b>Design of wireless force measuring instrument for sports based on STM32</b>
	<i>Dongli Hao, Wenxin Wei, Wenyao Yang</i>
AA315	<b>A digital twin-driven water plant flocculation and precipitation pharmacy control system</b>
	<i>Wu Yingxin, Huang Xintong, Ma Jiangang</i>
AA318	<b>Motion calculation of mooring line cut-off point based on BP neural network model</b>
	<i>Yao Guo, Zijian Zhang, Long Yu</i>
AA320	<b>Design of Enlightenment Platform for Left-Behind Children in Chinese Minority Areas Based on Java Web Page Interaction</b>
	<i>Wenjing Feng, Huimin Zhang, Chen Luo</i>
AA321	<b>Intelligent parking system of Internet of things based on path planning algorithm</b>
	<i>Lin Zheng, Shiquan Ding, Jingjing Kong</i>
AA322	<b>Simulation Analysis of a New Generation Floor Tile Based on Workbench</b>
	<i>Pang Jie, He Yizhuo</i>

## Session K

AA325	<b>Design of Sewage Treatment Device Based on Halbach Array and Intelligent Control System</b>
	<i>Lingfeng Zhu, Hongyu Tao</i>
AA326	<b>Design and implementation of intelligent single-phase meter metering module based on embedded technology</b>
	<i>Wang Wenhao</i>
AA329	<b>Design and study of an automatic composition model based on a bidirectional long- and short-term memory recurrent neural network with a self-attentive mechanism</b>
	<i>Shang Ziwei, Fan Xinyu, Zeng Chuang</i>
AA332	<b>Research on WLTC Remote Sensing Data Acquisition System Based on Extended Kalman Filter Algorithm</b>
	<i>Hongshuo Chen, Yunhui Jia, Shunkai Wang, Yi Wang, Zonghao Ma, Yuchen Ma</i>
AA333	<b>Simulation Analysis and Research on Aging Fault of HIL Oxygen Sensor</b>
	<i>Liu Benchao</i>
AA335	<b>Unrolled GAN-based Oversampling of Credit Card Dataset for Fraud Detection</b>
	<i>Jingzhong Wang, Lin Yao</i>
AA339	<b>Enterprise financial forecasting based on machine deep learning</b>
	<i>Qian Gao, Siwei Xia</i>
AA341	<b>Research on Transmission Efficiency of Electric Vehicle Wireless Charging System Based on Fuzzy Adaptive PID Controller</b>
	<i>Zhiqiang Qin, Lanqing Gong, Kunlong Jiao</i>
AA344	<b>Study on Abnormal Loads Test Method of LNG Refuelling Connector</b>
	<i>Fanzhuo Zeng, Song Huang, Lijie Yang, Yingguo Wang</i>
AA345	<b>Brain-machine system design and interface development based on an upper limb robotic device —A validated application to assist in the induction recording of stroke patients</b>
	<i>Jiayi Cai, Jialiang Cai</i>
AA349	<b>Design of Autonomous Following Vehicle for Rehabilitation</b>
	<i>Yuxuan Tian</i>



AA351	<b>Designs Analysis for Comparator's Performance Improvement</b>
	<i>Zeyuan Hou</i>
AA352	<b>A ROF System with 36-Tuple Frequency Millimeter Wave Generation</b>
	<i>Kunkun Wang, Zhaoxia Zhang, Qian Wang, Xiaoling Zhou, Ya Lu</i>
AA354	<b>Study on floating offshore wind power hydrogen production and hydrogen production ship</b>
	<i>Qianyi Wang, Lin Pan</i>
AA359	<b>Driver fatigue detection using machine learning methods</b>
	<i>Yi Chen</i>
AA360	<b>Text classification based on machine learning</b>
	<i>Xinrui Hu, Ruiyang Zhang</i>

### Session M

AA364	<b>Researches Advanced in Medical Image Analysis Based on Convolutional Neural Networks</b>
	<i>Zhuomin Pan</i>
AA365	<b>An Anti-Time Domain Impulse Interference Algorithm for Aviation Swarms Communication System</b>
	<i>Yaobo Shang, Dongwei Zhang, Zhe Li, Xiaolong Liang, Baoxiang Ren</i>
AA368	<b>Sign Language Recognition Based on Computer Vision</b>
	<i>Tengfei Li, Yongmeng Yan, Wenqing Du</i>
AA370	<b>Research on Application of Computer Artificial Intelligence Technology in Digital Media Interactive Design System</b>
	<i>Ruitong Che</i>
AA371	<b>Research on Korean Course Teaching Mode Based on Computer Internet Technology</b>
	<i>Wei Yao, Hong Yan</i>
AA373	<b>Optimization of Alkaline Agent in Secondary Loop of PWR Nuclear Power Plant from Safety Review</b>
	<i>Xiaohua Fu, Wenbin Xiong, Xuehong Yao, Wang Lin</i>
AA375	<b>The Impact of Road Reconstruction and Expansion on Pipelines along the Route</b>
	<i>Jinkang Zhang, Yu Xiong, Qihua Shen, Xiaochun Zhang</i>

AA377	<b>Intelligent detection UAV for illegal fishing based on YOLOv5 algorithm</b>
	<i>Zihan Yang, Kunpeng Duan</i>
AA380	<b>Study on the control of dissolved oxygen in condensate water of PWR</b>
	<i>Fu Xiaohua, Xiong Wenbin, Wang Lin</i>
AA383	<b>An Efficiency Evaluation Model of Reactor Safety Operation</b>
	<i>Huanhuan Fan, Baoran An, Huai Wu, Yunfei Liu</i>
AA390	<b>Data-Driven Complementation Approach for High-Reflective Surface Measurement</b>
	<i>Ziyu Yin, Junzheng Li</i>
AA391	<b>A Modular Design System to Support User-Defined Turret Tool Holders and Feed Systems</b>
	<i>Hanbing Huang, Pengzhong Li, Liang Luo</i>
AA396	<b>Design of flexible machining production line based on PLC and industrial robot</b>
	<i>Hongqing Xu, Jianping Pei, Shaolong Huang, Yu Jiang, Lingbin Kong, Xu Yang</i>
AA397	<b>Design of Magnetic Coupling Mechanism with Multiple Transmitters and Multiple Receivers in Three-Dimensional Space</b>
	<i>Cheng Wang, Cheng Jiang</i>
AA398	<b>Dynamic Formation Tracking Control Design with Time Delays</b>
	<i>Jingcheng Zhao, Mengjiao Xu, Zhuwei Wang, Lihan Liu</i>
AA399	<b>Attention based Information Cascade Prediction Model</b>
	<i>Linsheng Jiang, Fei Jia</i>

## Session N

AA400	<b>Research on Electromagnetic Wave Signal Processing and Monitoring System based on Particle Swarm Optimization</b>
	<i>Lu Zhou, Enze Zhang</i>
AA401	<b>Research on Optoelectronic Accelerator based on AI Computing</b>
	<i>Jin Li</i>
AA402	<b>Support Vector Machine Face Recognition Application based on Particle Swarm Optimization Algorithm</b>
	<i>Wei Tang</i>

AA403	<b>Anomaly Detection by Unsupervised Adversarial Generative Self-labelling Autoencoder</b>
	<i>Deyi Zeng</i>
AA406	<b>Mining and Analysis of Association Rules for Electromechanical and Intelligent Systems of Green Building in a Large Cultural Complex</b>
	<i>Xuantao Zhang, Wenjing Wu, Chuanbo Zhang, Chenfei Qu, Donglin Wang</i>
AA409	<b>Facial mask detection system based on YOLOv4 algorithm</b>
	<i>Chen Xiao, Liu Chang</i>
AA411	<b>CPSD: A data security deletion algorithm based on copyback command</b>
	<i>Rongzhen Zhu, Yuchen Wang, Pengpeng Bai, Zhiming Liang, Weiguo Wu, Lei Tang</i>
AA412	<b>An overall solution to cloud migration: A case study in environment protection industry</b>
	<i>Mengxia Chen, Yiquan Jiang, Wensheng Yao, Huan Liang, Hongming Qiao, Lanying Shi, Kefeng Yu, Ying Wu, Jingxiang Chen, Man Li, Jiangang Tong</i>
AA414	<b>Research on The Design of Coupling Mechanism for Double-Side Multiplexing of Multi-Load WPT System</b>
	<i>Siyang He, Cheng Jiang, Bin Wei</i>
AA415	<b>Research on Music Intervention Cognitive Load</b>
	<i>Sun Shengze, Qu Shuang, Wang Jikai, Yang Yang, Wang Boxuan</i>
AA420	<b>Research on Dynamic Deduction of Plans Based on Knowledge Graph</b>
	<i>Zhiyong Li, Huiming Guo, Mengqiao Zhang</i>
AA421	<b>Energy efficiency optimization of single-transmit double receiving architecture MC-WPT</b>
	<i>Jing Xiao, Shaonan Chen, Liquan Yin, Jin Ouyang, Weizhi Chen</i>
AA423	<b>The application of interpretable machine learning model based on comparative learning and NARMAX in epidemic research</b>
	<i>Sibei Cheng, Jin Zhou, Xiao Luo, Tao Zhou, Bozhou Jiang</i>
AA425	<b>A Framework for Assessing the Resilience of 5G Mobile Communication Networks</b>
	<i>Chengyu Liu, Yuxian Xie, Hongxu Li, Yuzhi Wang, Yingchao Zhang</i>
AA426	<b>Short-term prediction of distributed PV time-varying penetration rate based on scene clustering</b>
	<i>Min Wang, Jun Kan</i>

AA430	<b>Prediction of Short-term Passenger Flow of Urban Rail Transit based on Data Decomposition</b>
	<i>Min Wang, Huihui Lv, Youchun Zhai</i>

### Poster Session 1

AA006	<b>Image Recognition based on Multi-scale Feature Fusion Transformer</b>
	<i>Zhefeng Zhu, Ke Qi, Wenbin Chen, Yicong Zhou, Peiyue Li</i>
AA007	<b>i-DARTS: Improving differentiable architecture search by using graph and few-shot learning</b>
	<i>Diallo Mariama, Liang Sun</i>
AA016	<b>Multi-level attention network for image steganalysis</b>
	<i>Pokun Yang, Ke Qi, Shunyu Yao</i>
AA037	<b>A Preliminary Study on Innovative Application Design of Intersection Labeling Control</b>
	<i>Qianli Dong, Liang Wang, Zitong Yang, Xiao Zhang, An'an Guo, Ge Wang</i>
AA045	<b>Hardware Design of Traffic Intelligent Signal Control Machine</b>
	<i>Yupei Dai, Liang Wang, Yunfeng Zhai, Huinan Gu, Qianli Dong, Xi Zhang</i>
AA055	<b>Image Recognition in Autonomous Driving Based on Improved Swin Transformer</b>
	<i>Yequan Bie, Hao Tan</i>
AA057	<b>Research the influence of PSS on power system transient stability</b>
	<i>Zhipeng Liu, Yanling Lv, Mingyu Xu, Wanlin Guan, Huaiyu Guo, Xinghua Mu, Bowen Gu</i>
AA066	<b>Infrared Thermal Image Fault Detection based on YOLOV3-L</b>
	<i>Si Gao, Yiting Ruan, Qiancheng Hong, Decai Yin</i>
AA067	<b>Safety Helmet Detection based on YOLOV4-M</b>
	<i>Si Gao, Yiting Ruan, Yue Wang, Weijie Xu, Mingfeng Zheng</i>
AA090	<b>Design and optimization of long-wavelength pass filter in 3D imaging system</b>
	<i>Yue Yu, Hongrui Li</i>
AA095	<b>A FlexE-based Flexible Bandwidth Slicing and Scheduling Model for the Energy Internet</b>
	<i>Yong Dai, Song Jiang, Dayang Wang, Zhengpeng Shao, Mi Xu, Xu Liu</i>

## Poster Session 2

AA107	<b>Research on spectrum perception based on evolutionary game theory</b>
	<i>Changpeng Ji, Qianqian Qi</i>
AA116	<b>Remote Injected Code Behavior Analysis using Code Refactor</b>
	<i>Qian Zhang, Bo Wu, Juanjuan Gao, Bin Xue</i>
AA128	<b>Passive Wireless Temperature Online Detection System for Power Equipment based on SAW Technology</b>
	<i>Baoyu Xie</i>
AA143	<b>Development of an Informationized Leather Shotcrete Machine</b>
	<i>Liang Jiyi, Luo Binhao, Wu Xiaodie, Li Hongwei</i>
AA149	<b>Implementation of common interaction modes based on UE4</b>
	<i>Juan Zhang</i>
AA173	<b>Prediction of the Number of Online Doctors' Followers based on Machine Learning</b>
	<i>Wei Wanhua, Lv Renzhi</i>
AA197	<b>An application case of object detection model based on Yolov3-SPP model pruning</b>
	<i>Kanglin Yang, Zeyu Jiao, Junxiong Liang, Huan Lei, Chentong Li, Zhenyu Zhong</i>
AA198	<b>Research on the Application of YOLO v3 in Railway Intruding Objects Recognition</b>
	<i>Yongtian Ma, Jianjun Fang, Jiaxiang Zhao, Qiushi Zhang</i>
AA214	<b>Application of seismic image enhancement technology based on single-frame super-resolution reconstruction</b>
	<i>Jingyu Zhao, Li Lou</i>
AA266	<b>Analysis on the recent development of quantum computer and quantum neural network technology</b>
	<i>Zhiguo Huang, Ling Qian, Dunbo Cai</i>
AA317	<b>Parking lot intelligent guidance management system based on wechat applet</b>
	<i>Jingjing Kong, Lin Zheng, Shiquan Ding</i>
AA407	<b>A Planar Orthogonal Receiver for Multi-degree of Freedom Wireless Power Transfer</b>
	<i>Hai Hu, Wei Xu, Yinxing Shen, Yingjie Li</i>