

2024 16th International Conference on Advanced Computational Intelligence (ICACI 2024)

**16-19 May 2024
Zhangjiajie, China**



**IEEE Catalog Number: CFP2420J-POD
ISBN: 979-8-3503-0851-8**

**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:	CFP2420J-POD
ISBN (Print-On-Demand):	979-8-3503-0851-8
ISBN (Online):	979-8-3503-0850-1

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
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Zhang Extrapolation Formulas From Two Points Applied to Years 1944 and 1971 With 2025, 2052, 2079, and 2106 Predicted	1
<i>Yunong Zhang, Zhuoqun Li</i>	
Enhanced Small Target Recognition with Lightweight YOLOv5 in Low-Res Images	9
<i>Jingjing Wang, Hucheng Wang, Aming Wu</i>	
Optimizing Redundant Manipulator Performance: A Dual-Criteria Control Approach via Dynamic Neural Networks.....	13
<i>Yuheng Qian, Wentao Yue, Yuzhe Wang</i>	
Research on Policy Conflict Detection Technology Based on Interdomain Interconnection	18
<i>Daqiu Wang, Liangyu Dong, Ziyi Wang, Peijun Chen, Weiruo Pu, Yixiang Li</i>	
Derivation and Numerics of Integral-aided Denoising Zhang Time Derivatives	23
<i>Yunong Zhang, Peng An, Wuyi Yang</i>	
Solving Different Numerical Linear Algebra Problems with a New General Fast Neurodynamics	30
<i>Dimitrios Gerontitis, Panagiotis Tzekis, Yang Shi</i>	
Factors of Pre-University Study in Influencing Graduate on Time	36
<i>Theng-Jia Law, Choo-Yee Ting, Hui-Ngo Goh, Hu Ng, Albert Quek</i>	
A Temporal-Spatial Attention-based Dynamic Correction Method for Geological Model of Coal Seam	43
<i>Yuanbo Lv, Shibo Wang</i>	
Dense Metric with Meta-Classifer for Few-Shot Image Classification.....	49
<i>Yong Wang, Kaitong Li, Xiaoyu He</i>	
Path Finding via Shape Context Matching	55
<i>Yi-Feng Li, Zun-Yao Hou, Chuan-Kai Yang, Yuan-Cheng Lai</i>	
Design and Analysis of One-to-Many Associative Memory Driven by External Input.....	65
<i>Qiang Fang, Hao Zhang, Rui Cai</i>	
Multi-fidelity Surrogate Model Based Wind Tunnel Structure Design Optimization	72
<i>Yang Yisheng, Yang Zeyuan, Yan Xiqiang, Yan Sijie, Liu Bowen, Ding Han</i>	
An Adaptive Neurodynamic Algorithm for Solving Matrix Valued Optimization Problem with Multiple Constraints	79
<i>Haoze Li, Qiang Wang, Sitian Qin, Xinrui Jiang</i>	
Spectrum Sensing Based on Stochastic Resonance and SOM Neural Network.....	87
<i>Jing He, Bingfeng Zheng, Yonghua Wang</i>	
Adaptive Fuzzy Inverse Optimal Formation Control for Unmanned Surface Vehicle Systems	93
<i>Ying Liu, Yongming Li</i>	
Generative Intelligence-Based Swarm Robots Control and Human-Robot Symbiotic Society	99
<i>Zhijun Zhang, Xingru Li, An Pan</i>	

A Knowledge-Guided Emergency Response Rule Mining Method with Improved Genetic Algorithm	107
<i>Xin Ye, Qinqin Zhou, Ying Wang, Yitao Wang, Xiaoyan Su, Lei Zhang, Yanhong Guo</i>	
Power Load Interval Prediction Based on Selective Ensemble of EEMD-ROCKET	115
<i>Fan Wang, Yanyu Zhang, Caijia Lei, Yun Zhao, Yuxin Lu, Wei Pan</i>	
Bayesian Optimized CNN-RNN Hybrid Model for Predicting Streamflow in Potomac River Basin.....	121
<i>Nian Zhang, Stephanie Rouamba, Gavin Robinson, Tolessa Deksissa</i>	
Spatiotemporal BEV Pyramid Networks for Future Instance Prediction of Autonomous Driving	127
<i>Wenxuan Wu, Xiang Dong, Hui Zhang, Ziwen Zhao, Biao Yu, Hao Xu</i>	
WOA-VMD and SVM Rolling Bearing Failure Diagnosis.....	133
<i>Yawen Zhang, Guici Chen, Wenbo Wang</i>	
Multi-Resource Network Slicing with Deep Reinforcement Learning for an Optimal QoS Satisfaction Ratio	140
<i>Yuancheng Lai, Huichu Yang, Chuankai Yang</i>	
Progressive Fusion Network with Mixture of Experts for Multimodal Sentiment Analysis	150
<i>Dahuang Liu, Zhenguo Yang, Zhiwei Guo</i>	
Rumor Detection Based on Cross-modal Information-enhanced Fusion Network.....	158
<i>Zhiwei Guo, Zhenguo Yang, Dahuang Liu</i>	
Multisource Remote Sensing Fusion for Marine Aquaculture Information Extraction.....	165
<i>Zhuo Wang, Jie Dong, Xinzhe Wang, Jianchao Fan</i>	
Detection of Idiopathic Pulmonary Fibrosis Lesion Area Based on Transfer Learning	170
<i>JieLin Xue, Tian Pu, Lu Guo, ZhenMing Peng, Xing He, Yicen Han</i>	
Nonlinear Functions Activated Gradient-based Neural Dynamics for Online Matrix Inversion.....	177
<i>Xuanjiao Lv, Jing Feng</i>	
Hierarchical Neural Network Ensemble Modeling Based on Parallel and Serial Structure	182
<i>Jie Li, Degang Wang</i>	
A RNN for Solving Discrete-Form Time-Varying Matrix Inversion: From Model Design to Parameter Analysis.....	190
<i>Ruicong Wang, Qiaowen Shi, Xijie Wang, Bo Peng, Wei Chong, Yang Shi</i>	
Multi-objective Demand Responsive Transit Scheduling in Smart City: A Multiple Populations Ant Colony System Approach.....	197
<i>Ke-Jing Du, Jia-Quan Yang, Limin Wang, Xuming Han, Hua Wang, Zhi-Hui Zhan</i>	
The Decision of Freshness and Service Levels in a Dual-Channel Unified-Pricing Fresh E-commerce	206
<i>Gu Zhongxuan, Guo Xiaotong, Ma Zhuoman</i>	
Motion Sickness Alleviation Based on a Mindfulness Brain-Computer Interface	214
<i>Jiawei Zhu, Xiaoyu Bao, Qiyun Huang, Tao Wang, Li Huang, Yupeng Han, Kendi Li, Di Chen, Kailin Xu, Zijian Wang, Ya Jiang, Yuanqing Li</i>	
Crash Causing Information Extraction via Text Mining Techniques: Implementation of the Chinese State-related Crash Narratives.....	220
<i>Neng Xiong, Hanchu Zhou</i>	

Distributed and Competitive Coordination of Multi-Robot Based on GD-kWTA Network under Noise-Free Condition 227
Yuzhe Wang, Yuheng Qian, Wentao Yue, Jie Zeng, Chaoyuan Hao

Dual Performance Zeroing Neural Dynamics for Calculating Time-varying Linear Matrix Equations..... 234
Jiamei Luo, Xiang Tan, Tengxiao Chen, Yihui Lei

Author Index