

JOURNAL OF COMPUTERS

ISSN: 1991-1599 Volume 35 Number 5 October 2024

CONTENTS

PIPE-ID: Pipelined Innovative Teaching Architecture for Interdisciplinary Design in Vocational Education using Information and Communication Technology	1
<i>Dong Li and Ying Huang</i>	
Multimodal Image Fusion Algorithm Based on Two-stage Multiscale Decomposition.....	15
<i>Lei Zhang, Yi-Yuan Cheng, Jing Li, Zhi-She Wang, Lin-Na Ji, and Wei Liu</i>	
Fault Detection Method of Oil-immersed Transformer Based on Thermal Imaging.....	35
<i>Xi Song, Mingdong Zhang, Weidong Xie, Shaorong Cao, and Chaochao Gao</i>	
Diagnosis Bearing Faults Based on the Triplet Optimized Embedding Models	47
<i>Xinyang Chen</i>	
Machine Learning-Based Algorithms Applied to Identifying Drug Smuggling via Postal and Express Delivery Channels.....	61
<i>Mingyue Qiu, Xueying Zhang, Linsheng Jiang, and Xinmeng Wang</i>	
SERDA: Secure Enhanced and Robust Data Aggregation Scheme for Smart Grid.....	73
<i>Yiming Chen, Hongjun Duan, Dong Wang, Yining Liu, and Chin-Chen Chang</i>	
Proving Linearizability of Concurrent Queues	91
<i>Jie Peng, Tangliu Wen, and Dongming Jiang</i>	
Robust Scheduling Strategy for Renewable Energy Storage Systems Considering Uncertainty.....	105
<i>Mei Han, Jun-Kai Zhang, Xiao-Yan Jiang, Xiao-Yang Zhang, and Yan Zhou</i>	
Energy-Efficient Optimization of Multi-UAV Assisted Smart Grids Networks	123
<i>Zhongyuan Nian, Jingxue Tian, Xu Lu, Hua Wang, Heli Zhang, Chunfang Mu, and Yang Li</i>	

Research on Railway Train Space Position Correction Algorithm Based on GNSS Correction Model.....	135
<i>WenBin Liu and XiaoLei Xu</i>	
An Average Temperature Feedback based PID Controller for Multi-Channel Balanced Heating in Thermal Vacuum Test.....	149
<i>Xin Chang, Bo Zang, Peng Gao, Xiaoke Li, Zongmin Zhao, and Ao Ye</i>	
Trajectory Planning Method for Welding Pipe Parts Using Industrial Robots Based on 3D Vision.....	169
<i>Rui Fan, Jian Gao, Chun-Ying Zhu, and Qing-Chuan Liu</i>	
Design of a Machine Vision Based Image Acquisition and Detection System for Surface Defects of Metal Bars	187
<i>Xiang-Yun Yi, Rui-Da He, Juan-Hong Jing, Wei-Tao Jia, Wen-Ya Shi, and Tao Zhang</i>	
Design of Electrical System Teaching Platform Based on PLC and Implementation of Virtual Simulation Training System.....	203
<i>Jing Wang and Zuo-Zeng Liu</i>	
Research on the Design and Application of a Rapid Inspection System and Method for Ship Curved Plate Forming Based on Binocular Vision	221
<i>Zhi-Fei Guo and Feng Yang</i>	
Intelligent Driving Decision-Making Strategy for New Energy Vehicles Based on Lightweight Reinforcement Learning Model	237
<i>Wen-Tao Li, Zhi Zhang, Xiang-Yu Yi, Xiao-Bo Dong, Liang-Gui Zhang, and Li-Yun Yang</i>	