

JOURNAL OF COMPUTERS

ISSN: 1991-1599 Volume 32 Number 1 February 2021

CONTENTS

Towards Understanding Bugs in WSN Applications	1
<i>Jing-Jing Zhao, Yu-Xia Sun, Qi Deng, Ming Cheng, Qing-Xuan Kuang</i>	
2D Phase Unwrapping Method Based on Minimum Balanced Trees of Dual Residues	11
<i>Jian Gao, Rui Cheng, Yi-Xiang Chen, Chang Jiang</i>	
Research of HMM-Based Fall Detection System for Elderly	27
<i>Wei-Jian Xu, Yi-Feng Zhao, Wei-Nan Cao, Wei-Che Chien</i>	
An Information Security Protocol for Automotive Ethernet	39
<i>Chu-Ting Wang, Gui-He Qin, Rui Zhao, Shi-Min Song</i>	
Ghost Suppression Algorithm Based on TFDT Modeling	53
<i>Guo-Liang Xu, Hang Zhou, Liang-You Yuan</i>	
Behaviour Classification of Cyber Attacks Using Convolutional Neural Networks	65
<i>Wen-Hui Lin, Ping Wang, Hsiao-Chung Lin, Bao-Hua Wu, Jeng-Ying Tsai</i>	
A Fast Clustering Method for Real-Time IoT Data Streams	83
<i>Jing Sun, Xin Yao</i>	
Using Deep Learning to Track Stray Animals with Mobile Device	95
<i>Rung-Ching Chen, Qiao-En Liu, Chung-Yen Liao</i>	
A Wearable Embedded System for Assisting Cognition of Visually Impaired People by Street Scene Description	102
<i>Feng-Cheng Lin, Shou-Jin She, Hsu-Huy Ngo, Chyi-Ren Dow, Fang-Rong Hsu</i>	
Using Cloud-based IoT Technology for Wireless Medical Care Monitor System	120
<i>Hong-Ling Liu, Ruey-Shun Chen, Gang ke, Yu-Xi Hu, Rong Lu, Jianxin Li</i>	

CPS-Based Smart Manufacturing: Integration of Sawing and Punching for Aluminum Profile	132
<i>L-B. Lin, R. Yang, D-B. Zhang, H. Qin, D-W. Wu</i>	
Network Security Situation Prediction Method Based on Support Vector Machine Optimized by Artificial Bee Colony Algorithms	144
<i>Gang Ke, Ruey-Shun Chen, Yeh-Cheng Chen, Jyh-haw Yeh</i>	
An Innovative Teaching Application and Research of the Game-Based Learning in the Game Design Essentials Course	154
<i>Hui-Chen Tsai, Hsiao-Chin Jen</i>	
A Mixed-Methods Approach to Explore Users' Behavior in Playing Mobile Games	164
<i>Tung-Lin Chuang</i>	
The Effects of a Self-designed Tabletop Game and Learning Achievement	174
<i>Kai-Ming Yang, Lai-Chung Lee, Chingya Chiu</i>	
Using Web Service Middleware to Smart Smart Multi-Test System in CMOS Image Sensing Devices	183
<i>Dongsheng Cheng, Ruey-Shun Chen, Huiyu Zhang, Zhiyu Zhang</i>	
Using AHP-Entropy Approach to Investigate the Key Factors on FinTech Service	200
<i>Can Xu</i>	
Sales Forecasting of Promotion Activities Based on the Cross-Industry Standard Process for Data Mining of E-commerce Promotional Information and Support Vector Regression	212
<i>Yiman Zhang</i>	
Multi-objective River Ecological Dispatching Algorithms Using NSGA-III	226
<i>Wenjuan Zhang, Yingping Huang</i>	
Method of 3D Vehicle Object Detection Based on Improved VoxelNet	242
<i>Yi-Fan Zhao, Shao-Bo Wu, Shi-Peng Dong</i>	