

# JOURNAL OF COMPUTERS

ISSN: 1991-1599    Volume 31    Number 5    October 2020

## CONTENTS

|   |            |
|---|------------|
| <b>Dynamic Gesture Recognition Method Based on Conditional<br/>Random Field and Weighted Voting Strategy</b>                                | <b>1</b>   |
| <i>Yun Wu, Dong-Chen Huang, Wei-Chang Du, Meng-Ke Wu, Xin Hu</i>  |            |
| <b>Research on Automatic Parking System Based on Multi-information<br/>Fusion</b>   | <b>14</b>  |
| <i>Chuan-wei Zhang, Hong-jun Zeng, Meng-yue Yang, Jian-ping Wen,<br/>Man-zhi Yang</i>   |            |
| <b>Feature Extraction Method Based on Gray Value Star-shaped<br/>Projection</b>   | <b>30</b>  |
| <i>Mengyi Liao, Kun Zhang, Bing Li, Jianfang Liu</i>  |            |
| <b>Orthogonal Range Search Approach Using FGBC-iDistance</b>  | <b>44</b>  |
| <i>Xinpan Yuan, Qingyun Liu, Songlin Wang, Zhigao Zeng</i>  |            |
| <b>Image Sparse Representation Based on Improved K-SVD Algorithm</b>  | <b>61</b>  |
| <i>Qiang Yang, Huajun Wang</i>  |            |
| <b>DD-SDWMN: Dynamic Distributed Software Defined Wireless Mesh<br/>Network</b>   | <b>73</b>  |
| <i>Hisham Elzain, Wu Yang</i>   |            |
| <b>Virtual Reality in Puppet Game Using Depth Sensor of Gesture<br/>Recognition and Tracking</b>  | <b>89</b>  |
| <i>Ervin Yohannes, Timothy K. Shih, Fitri Utaminingrum</i>  |            |
| <b>Video Region of Interest Extraction Algorithm Based on Improving<br/>Visual Background Extraction Model</b>                              | <b>99</b>  |
| <i>Ren-Jie Song, Yuan-Dong Zhang</i>  |            |
| <b>Focus on Specific-Video Objects: Learning Various Sample<br/>Representations for Visual Tracking</b>                                     | <b>112</b> |
| <i>Bo-Yan Zhang, Yong Zhong</i>   |            |
| <b>Deep Learning for Expressions Recognition on Small Dataset Using the<br/>Methods of Dual Transfer Learning and Feature Visualization</b> | <b>127</b> |
| <i>Junhuan Lin, Zhen Liu, Chih-Chieh Hung, Ting Ting Liu, Yan Jie Chai</i>  |            |
| <b>A Comparative Analysis Between IFS-based and Non-IFS-based<br/>Classification on Color Texture</b>                                       | <b>146</b> |
| <i>Chih Ping Yen, Cheng Tan Tung</i>  |            |

|   |            |
|---|------------|
| <b>Smart Occupancy Detection System Based on Long Short-Term<br/>Memory Units</b>   | <b>159</b> |
| <i>Asif Husnain, Tae-Young Choe</i>   |            |
| <b>Joint Optimization Scheme for Mode Selection and Resource<br/>Allocation of D2D Communication</b>  | <b>176</b> |
| <i>Hongliang Tian, Hongle Pan, Xiaonan Ge</i>   |            |
| <b>Short-Term Power Forecasting Of Photovoltaic Power Generation<br/>Based On Similar Day And Improved Principal Component<br/>Analysis</b> | <b>187</b> |
| <i>Yun Wu, Meng-ke Wu, Li-shan Bao, Chun-zhe Li</i>   |            |
| <b>Constructing the Microphone Array Monitoring System for Smart<br/>Concert Hall: A Case in Cello Section Rehearsal</b>                    | <b>198</b> |
| <i>Yang Liu, Feng Tong</i>  |            |
| <b>A Variable-Scale Refinement Triangulation Algorithm with Faults<br/>Data</b>   | <b>212</b> |
| <i>Xiao-xia Luo, Zi-tong Wang, Meng-fan Wang, Xiao-nan Shi</i>  |            |
| <b>A Hybrid Artificial Bee Colony Algorithm for Multi-objective<br/>Flexible Job-Shop Scheduling Problem</b>                                | <b>224</b> |
| <i>Guan-Jun Meng, Xin-Hua Chen, Da-Chun Yang, Wei Zhang</i>   |            |
| <b>Extreme Learning Machine with Firefly Algorithm for Abnormal<br/>Prediction</b>  | <b>236</b> |
| <i>Yong-Quan Yan</i>  |            |
| <b>Research of Deep Learning in Pedestrian Detection</b>  | <b>249</b> |
| <i>Chuan-wei Zhang, Meng-yue Yang, Hong-jun Zeng, Bo Li</i>   |            |
| <b>A Trusted Hybrid Recommendation Method of Web Services<br/>Considering Timeliness</b>  | <b>261</b> |
| <i>Hongguo Zhang, Xiaoqi Liu, Chao Ma, Zhou Fang, Huazhu Chen,<br/>Haining Yu</i>   |            |
| <b>Safety Risk Assessment of Shooting Test by Deep Learning Neural<br/>Networks</b>   | <b>277</b> |
| <i>Chao Song, Yi-Zhuo Jia, Dong-Jun Wang, Hong-Tian Liu, Yang Cao</i>   |            |
| <b>An Attitude Correction Method of Spinning Bodies Based on Radial<br/>Gyroscopes</b>  | <b>290</b> |
| <i>Shuang-biao Zhang, Xing-cheng Li, Jia-qi Yu</i>  |            |
| <b>Research and Practice of Flipped Classroom in Data Structure</b>   | <b>302</b> |
| <i>Long-Jun Huang, En Fan, Ke-Li Hu, Sheng Feng</i>   |            |
| <b>Syntax and Operational Semantics of a Component and Its<br/>Application in Maze Software</b>   | <b>310</b> |
| <i>Ming Gu</i>  |            |
| <b>Research on Path Planning and Location Optimization of<br/>Quantum Wireless Sensor Networks</b>  | <b>324</b> |
| <i>Xincan Fan, Xiaojun Wen, Shaosheng Jiang</i>   |            |