

ISSN 1976-913X (Print)  
ISSN 2092-805X (Electronic)



**JOURNAL OF INFORMATION PROCESSING SYSTEMS**  
Volume 16, Number 2 (Serial Number 62), April 2020

(Continued from outside front cover)

- Identification of Tea Diseases Based on Spectral Reflectance and Machine Learning  
Xiuguo Zou, Qiaomu Ren, Hongyi Cao, Yan Qian, and Shuaitang Zhang 435
- Conceptual Extraction of Compound Korean Keywords  
Samuel Sangkon Lee 447
- Energy-Aware Virtual Data Center Embedding  
Xiao Ma, Zhongbao Zhang, and Sen Su 460
- PSA: A Photon Search Algorithm  
Yongli Liu and Renjie Li 478
- Movie Recommendation System Based on Users' Personal Information and Movies Rated Using the Method of  $k$ -Clique and Normalized Discounted Cumulative Gain  
Phonexay Vilakone, Khamphaphone Xinchang, and Doo-Soon Park 494
- Nonlinear Quality Indices Based on a Novel Lempel-Ziv Complexity for Assessing Quality of Multi-Lead ECGs Collected in Real Time  
Yatao Zhang, Zhenguo Ma, and Wentao Dong 508

- Advanced Technologies in Blockchain, Machine Learning, and Big Data  
Ji Su Park and Jong Hyuk Park 239
- Improvement of ITSM IT Service Efficiency in Military Electronic Service  
Hanchul Woo, Suk-Jae Jeong, and Jun-Ho Huh 246
- Formal Representation and Query for Digital Contents Data  
Khamis Abdul-Latif Khamis, Huazhu Song, and Xian Zhong 261
- Combining Distributed Word Representation and Document Distance for Short Text Document Clustering  
Supavit Kongwudhikunakorn and Kitsana Waiyamai 277
- A Design for a Hyperledger Fabric Blockchain-Based Patch-Management System  
Kyoung-Tack Song, Shee-Ihn Kim, and Seung-Hee Kim 301
- Risk Assessment and Decision-Making of a Listed Enterprise's L/C Settlement Based on Fuzzy Probability and Bayesian Game Theory  
Zhang Cheng and Nanni Huang 318
- Topic Extraction and Classification Method Based on Comment Sets  
Xiaodong Tan 329
- Three-Dimensional Shape Recognition and Classification Using Local Features of Model Views and Sparse Representation of Shape Descriptors  
Hussein Kanaan and Alireza Behrad 343
- Ensemble of Classifiers Constructed on Class-Oriented Attribute Reduction  
Min Li, Shaobo Deng, and Lei Wang 360
- Offline-to-Online Service and Big Data Analysis for End-to-end Freight Management System  
Suganya Selvaraj, Hanjun Kim, and Eunmi Choi 377
- Electromagnetic Environment of Transmission Line Based on Full Parameter Online Estimation  
Zidan Sun, Xiaofeng Zhou, Likai Liang, and Yang Mo 394
- A Method for  $k$  Nearest Neighbor Query of Line Segment in Obstructed Spaces  
Liping Zhang, Song Li, Yingying Guo, and Xiaohong Hao 406
- A Study on Electronic Voting System Using Private Blockchain  
Chang-Hyun Roh and Im-Yeong Lee 421

(Continued on outside back cover)

