

Contents

Part I Advanced Software Engineering

Approach for an Opinion Wrapping System–Using Focused Web Crawler	3
Gaurav Vats, Vishal Bhatnagar, Rajat Sharma, Ishan Setiya and Arushi Jain	
Improved Environmental Adaption Method with Real Parameter Encoding for Solving Optimization Problems	13
Tribhuvan Singh, Ankita Shukla and K.K. Mishra	
Grouping-Aware Data Placement in HDFS for Data-Intensive Applications Based on Graph Clustering	21
S. Vengadeswaran and S.R. Balasundaram	
Parameter Estimation for PID Controller Using Modified Gravitational Search Algorithm	33
Ankush Rathore and Manisha Bhandari	
Auto Improved-PSO with Better Convergence and Diversity	43
Ashok Kumar, Brajesh Kumar Singh and B.D.K. Patro	
A Novel Hybrid PSO–WOA Algorithm for Global Numerical Functions Optimization	53
Indrajit N. Trivedi, Pradeep Jangir, Arvind Kumar, Narottam Jangir and Rahul Totlani	
Moth-Flame Optimizer Method for Solving Constrained Engineering Optimization Problems	61
R.H. Bhesdadiya, Indrajit N. Trivedi, Pradeep Jangir and Narottam Jangir	

Training Multilayer Perceptrons in Neural Network Using Interior Search Algorithm	69
R.H. Bhesdadiya, Indrajit N. Trivedi, Pradeep Jangir, Arvind Kumar, Narottam Jangir and Rahul Totlani	
Sequence Generation of Test Case Using Pairwise Approach Methodology	79
Deepa Gupta, Ajay Rana and Sanjay Tyagi	
A Rule Extraction for Outsourced Software Project Risk Classification	87
Zhen-hua Zhang, Yong Hu, Kuixi Xiao, Shenguo Yuan and Zhao Chen	
Prediction of Market Movement of Gold, Silver and Crude Oil Using Sentiment Analysis	101
Kunal Keshwani, Piyush Agarwal, Divya Kumar and Ranvijay	
Social Influence and Learning Pattern Analysis: Case Studies in Stackoverflow	111
Sankha Subhra Paul, Ashish Tripathi and R.R. Tewari	
Classification Approach to Extract Strongly Liked and Disliked Features Through Online User Opinions	123
Juveria Fatima and Deepak Arora	
 Part II Internet of Things	
A Multicriteria Decision-Making Method for Cloud Service Selection and Ranking	139
Rakesh Ranjan Kumar and Chiranjeev Kumar	
Development and Analysis of IoT Framework for Healthcare Application	149
Anil Yadav, Nitin Rakesh, Sujata Pandey and Rajat K. Singh	
An Effective and Empirical Review on Internet of Things and Real-Time Applications	159
Surbhi Gill, Paras Chawla, Pooja Sahni and Sukhdeep Kaur	
Operations on Cloud Data (Classification and Data Redundancy)	169
Sandeep Khanna, Nitin Rakesh and Kamal Nayan Chaturvedi	
Load Balancing Tools and Techniques in Cloud Computing: A Systematic Review	181
Mohammad Oqail Ahmad and Rafiqul Zaman Khan	

A Hybrid Optimization Approach for Load Balancing in Cloud Computing 197
 Apoorva Tripathi, Saurabh Shukla and Deepak Arora

A Comparative Analysis of Cloud Forensic Techniques in IaaS 207
 Palash Santra, Asmita Roy and Koushik Majumder

Cloud Detection: A Systematic Review and Evaluation 217
 Harinder Kaur and Neelofar Sohi

Sentiment Classification for Chinese Micro-blog Based on the Extension of Network Terms Feature 231
 Fei Ye

Implementation of Stress Measurement System Based on Technology of Internet of Things 243
 Qingshuai Wang, Hui Cao, Ailin Li and Tao Xu

Social Media Big Data Analysis for Global Sourcing Realization 251
 Shi-Feng Huang, Chuan-Jun Su and Maria Belen Vargas Saballos

Based on Hidden Markov Model to Identify the Driver Lane-Changing Behavior of Automobile OBD Internet of Vehicles Research and Design 257
 Yu Tu, Fengdeng Zhang and Zhijian Wang

The Research on Key Technique of Raw Coal Management Information System 265
 Xiaoyan Zhang and Lei Zhang

Structural Modeling of Implementation Enablers of Cloud Computing 273
 Nitin Chawla and Deepak Kumar

Labelling and Encoding Hierarchical Addressing for Scalable Internet Routing 287
 Feng Wang, Xiaozhe Shao, Lixin Gao, Hiroaki Harai and Kenji Fujikawa

A Cuckoo Search Algorithm-Based Task Scheduling in Cloud Computing 293
 Mohit Agarwal and Gur Mauj Saran Srivastava

Performance Optimization in Cloud Computing Through Cloud Partitioning-Based Load Balancing 301
 Sonam Srivastava and Sarvpal Singh

Part III Intelligent Image Processing

An Optimistic Approach of Locking Strategy in Progress Fourth Generation Language	315
Neha Prabhakar and Abhishek Singhal	
Combating Clickjacking Using Content Security Policy and Aspect Oriented Programming	323
Rakhi Sinha, Dolly Uppal, Rakesh Rathi and Kushal Kanwar	
A Conceptual Framework for Analysing the Source Code Dependencies	333
Nisha Ratti and Parminder Kaur	
DWT-SVD-Based Color Image Watermarking Using Dynamic-PSO	343
Nitin Saxena, K.K. Mishra and Ashish Tripathi	
Semi-supervised Spatiotemporal Classification and Trend Analysis of Satellite Images	353
Avinash Chandra Pandey and Ankur Kulhari	
Improved Content-Based Image Classification Using a Random Forest Classifier	365
Vibhav Prakash Singh and Rajeev Srivastava	
An Advanced Approach of Face Recognition Using HSV and Eigen Vector	377
Santosh Kumar, Atul Chaudhary, Ravindra Singh, Manish Sharma and Anil Dubey	
RMI Approach to Cluster Based Image Decomposition for Filtering Techniques	387
Sachin Bagga, Akshay Girdhar, Munesh Chandra Trivedi, Yinan Bao and Jingwen Du	
Segregation of Composite Document Images into Textual and Non-Textual Content	401
Munesh Chandra Trivedi, Shivani Saluja, Tarun Shrimali and Shivani Shrimali	
Optimization of Automatic Test Case Generation with Cuckoo Search and Genetic Algorithm Approaches	413
Rijwan Khan, Mohd Amjad and Akhlesh Kumar Srivastava	
Impact Analysis of Contributing Parameters in Audio Watermarking Using DWT and SVD	425
Ritu Jain, Munesh Chandra Trivedi and Shailesh Tiwari	

Digital Audio Watermarking: A Survey 433
 Ritu Jain, Munesh Chandra Trivedi and Shailesh Tiwari

Brain CT and MR Image Fusion Framework Based on Stationary Wavelet Transform 445
 Sharma DileepKumar Ramlal, Jainy Sachdeva, Chirag Kamal Ahuja and Niranjan Khandelwal

A Feature-Based Semi-fragile Watermarking Algorithm for Digital Color Image Authentication Using Hybrid Transform 455
 Hiral A. Patel and Nidhi H. Divecha

Inventory Control Using Fuzzy-Aided Decision Support System. 467
 Mahuya Deb, Prabjot Kaur and Kandarpa Kumar Sarma

Assessment of Examination Paper Quality Using Soft Computing Technique 477
 Shruti Mangla and Abhishek Singhal

Moving Shadow Detection Using Fusion of Multiple Features. 487
 Yajing Lin, Bingshu Wang and Yong Zhao

Caption Text Extraction from Color Image Based on Differential Operation and Morphological Processing 495
 Li-qin Ji

Reversible Data Hiding Based on Dynamic Image Partition and Multilevel Histogram Modification 503
 Wenguang He, Gangqiang Xiong and Yaomin Wang

Part IV ADBMS and Security

Threshold-Based Hierarchical Visual Cryptography Using Minimum Distance Association 513
 Pallavi Vijay Chavan and Mohammad Atique

Security in IoT-Based Smart Grid Through Quantum Key Distribution 523
 Maninder Kaur and Sheetal Kalra

A Comparative Study on Face Detection Techniques for Security Surveillance 531
 Dimple Chawla and Munesh Chandra Trivedi

Proposed Approach for Book Recommendation Based on User k-NN 543
 Rohit, Sai Sabitha and Tanupriya Choudhury

Improved FP-Linked List Algorithm for Association Rule Mining 559
 Aditya Gupta, Kunal Gusain and Lalit Mohan Goyal

On Hierarchical Visualization of Event Detection in Twitter	571
Nadeem Akhtar and Bushra Siddique	
Audio Steganography Techniques: A Survey	581
Shilpi Mishra, Virendra Kumar Yadav, Munesh Chandra Trivedi and Tarun Shrimali	
Role of Clustering in Crime Detection: Application of Fuzzy K-means	591
Nidhi Tomar and Amit Kumar Manjhvar	
Implementation of Modified K-means Approach for Privacy Preserving in Data Mining	601
Shifa Khan and Deepak Dembla	
Cross-Lingual Information Retrieval: A Dictionary-Based Query Translation Approach	611
Vijay Kumar Sharma and Namita Mittal	
Predictive Classification of ECG Parameters Using Association Rule Mining	619
Kratika Tyagi and Sanjeev Thakur	
Two-Level Diversified Classifier Ensemble for Classification of Credit Entries	629
Prמוד Patil, J.V. Aghav and Vikram Sareen	
P-RED: Probability Based Random Early Detection Algorithm for Queue Management in MANET	637
Neelam Sharma, Shyam Singh Rajput, Amit Kumar Dwivedi and Manish Shrimali	
Analyzing Game Stickiness Using Clustering Techniques	645
Hycinta Andrat and Nazneen Ansari	
Automated Detection of Acute Leukemia Using K-mean Clustering Algorithm	655
Sachin Kumar, Sumita Mishra, Pallavi Asthana and Pragya	
Energy Data Analysis of Green Office Building	671
Weiyang Li, Minnan Piao, Botao Huang and Chenfei Qu	
Location Prediction Model Based on K-means Algorithm	681
Yan Hu, Xiaoying Zhu and Gang Ma	

Visual Tracking via Clustering-Based Patch Weighing and Masking 689
He Yuan, Hefeng Wu, Dapeng Feng and Yongyi Gong

A Presenter Discovery Method Based on Analysis of Reputation Record 697
Jin-dong Wang, Zhi-yong Yu, Xiang Liu and Miao Sun

Author Index. 711



<http://www.springer.com/978-981-10-3772-6>

Advances in Computer and Computational Sciences
Proceedings of ICCCS 2016, Volume 2
Bhatia, S.K.; Mishra, K.K.; Tiwari, S.; Singh, V.K. (Eds.)
2018, XXIV, 713 p. 254 illus., Softcover
ISBN: 978-981-10-3772-6