Journal of Software

ISSN 1796-217X

Volume 6, Number 3, March 2011

Contents

REGULAR PAPERS	
Secure Software Systems Engineering: The Secure Tropos Approach (Invited Paper) Haralambos Mouratidis	331
Scheduling Real-Time Embedded Systems Based on TCPNIA Nianhua Yang, Huiqun Yu, Hua Sun, and Zhilin Qian	340
A Precise Characterization of Software Component Interfaces Basem Y. Alkazemi	349
QoS-based Selection of Multi-Granularity Web Services for the Composition Bo Zhou, Keting Yin, Honghong Jiang, Shuai Zhang, and Aleksander J. Kavs	366
Enhancing Software Reuse through Application-level Component Approach Guojie Jin, Baolin Yin, and Qiyang Zhao	374
A New Model for Finding Approximate Tandem Repeats in DNA Sequences Qingshan Jiang, Sheng Li, Shun Guo, and Dan Wei	386
A Generic Software Monitoring Model and Features Analysis Chang-Guo Guo, Jun Zhu, and Xiao-Ling Li	395
Enforcing Data Privacy and User Privacy over Outsourced Database Service Yonghong Yu and Wenyang Bai	404
An Improvement to TF-IDF: Term Distribution based Term Weight Algorithm <i>Tian Xia and Yanmei Chai</i>	413
An Approach to Improving Bug Assignment with Bug Tossing Graphs and Bug Similarities Liguo Chen, Xiaobo Wang, and Chao Liu	421
Automatic Identification of Diatoms with Circular Shape using Texture Analysis Qiaoqi Luo, Yahui Gao, Jinfei Luo, Changping Chen, Junrong Liang, and Chenhui Yang	428
An Improved Immune Genetic Algorithm for the Optimization of Enterprise Information System based on Time Property <i>Chaogai Xue, Lili Dong, and Guohua Li</i>	436
Evolutioinary Combination of Models in DSS based on Genetic Programming Chaofan Dai, Yanghe Feng, and Jianmai Shi	444
Adaptive Genetic Algorithm for Steady-State Operation Optimization in Natural Gas Networks Changjun Li, Wenlong Jia, Yi Yang, and Xia Wu	452
Study and Metric on Macro-Topology Characteristic Values of Software Networks Zheng Liu, Hai Zhao, and Qian Zhang	460

A CPN-based Software Testing Approach Lizhi Cai, Juan Zhang, and Zhenyu Liu	468
Investigation of Shift Dependency Effects on Multiresolution-Based Image Fusion Performance Yufeng Li, Xiaoyun Feng, and Yong Fan	475
Satellite Cloud Image Registration by Combining Curvature Shape Representation with Particle Swarm Optimization Xiang Zhang and Chang-jiang Zhang	483
Artificial Bee Colony Algorithm with Local Search for Numerical Optimization Fei Kang, Junjie Li, Zhenyue Ma, and Haojin Li	490
MFC: Mining Maximal Frequent Dense Subgraphs without Candidate Maintenance in Imbalanced PPI Networks Miao Wang, Xuequn Shang, and Zhanhuai Li	498
Assigning Method for Decision Power Based on Linguisite 2-tuple Judgment Matrices Xixiang Zhang, Guangxue Yue, Xiajie Zheng, and Fei Yu	508