Journal of Software

ISSN 1796-217X

Volume 6, Number 4, April 2011

Contents

Special Issue: Middleware and Network Applications
Guest Editor: Jameela Al-Jaroodi and Nader Mohamed

Guest Editorial
Jameela Al-Jaroodi and Nader Mohamed 517

SPECIAL ISSUE PAPERS

FORMS: Feature-Oriented Reverse Engineering-based Middleware Specialization for Product-Lines
Akshay Dabholkar and Aniruddha Gokhale 519

Advanced Sensor Network Software Deployment using Application-level Quality Goals
Wouter Horré, Sam Michiels, Wouter Joosen, and Danny Hughes 528

Efficient Monitoring Strategy for Active Environments
S. Kami Makki, Bo Sun, Ricky Guidry, and Jeffery Hill 536

A Scalable Framework for Policy-based QoS Management in SOA Environments
Elarbi Badidi and Larbi Esmahi 544

Enforcing Quality of Service within Web Services Communities
Mohamed Adel Serhani and Abdelghani Benharref 554

Towards a Conceptual Framework to Support Dynamic Service Provisioning for Non-Technical Service Clients
Luiz Olavo Bonino da Silva Santos, Vikram Sorathia, Luis Ferreira Pires, Marten J. van Sinderen 564

REGULAR PAPERS

Reasoning About Quantitative Architectural Attributes (Invited Paper)
Lamia Labed Jilani, Imen Derbel, Khaled Bsaies, Hamdi Nasreddine, and Ali Mili 574

Adaptive Hybrid Ant Colony Optimization for Solving Dual Resource Constrained Job Shop Scheduling Problem
Jingyao Li, Shudong Sun, and Yuan Huang 584

A Security Evaluation Method Based on Threat Classification for Web Service
Li Jiang, Hao Chen, Fei Deng, and Qiusheng Zhong 595

A Novel PSO Algorithm Based on Local Chaos & Simplex Search Strategy and its Application
Shengli Song, Yong Gan, Li Kong, and Jingjing Cheng 604

Research on Heuristics Logistics Distribution Algorithm Based on Parallel Multi-ant Colonies
Ruixue Tang, Yongbin Qin, and Li Zhang 612
A Data-drive Feature Selection Method in Text Categorization
Yan Xu

Rough Sets and Confidence Attribute Bagging for Chinese Architectural Document Categorization
Xiang Zhang, Changhua Li, Lili Dong, and Na Ye

STP-CMM: A Grading Practice Capability Maturity Model for Software Talent Cultivation
Tao Wu, Feng Ning, Lai-Yuan Xiao, and Chuan-Bo Chen

A Cognitive Approach to IS Requirement Analysis: Mental Model Building from Case Study
Chien-Chung Tu, Kwoting Fang, and Chwen-Yea Lin

A Study of When to Release a Software Product from the Perspective of Software Reliability Models
Richard Lai, Mohit Garg, Parmod Kumar Kapur, and Shaoying Liu

Uncertain Linguistic Multiple Attribute Group Decision Making Approach and Its Application to Software Project Selection
Yao Zhang and Zhi-Ping Fan

A New Model for the Structure of Leaves
Yasser M. Abd El-Latif

Substantiating Anomalies In Wireless Networks Using Group Outlier Scores
Elankayer Sithirasenan and Vallipuram Muthukumarasamy

Using EUREQA for End-User UML Model Development through Design Patterns
Paul G. Austrem

An Architecture of Mobile Web 2.0 Context-aware Applications in Ubiquitous Web
I-Ching Hsu

Integration of Grey with Neural Network Model and Its Application in Data Mining
Changjun Zhu, Qinghua Luan, Zhenchun Hao, and Qin Ju

The Research of Access Control Based on UCON in the Internet of Things
Guoping Zhang and Wentao Gong

A Personalized Collaborative Filtering Recommendation Using Association Rules Mining and Self-Organizing Map
Hongwu Ye

Towards Testing Web Applications Using Functional Components
Zhongsheng Qian