

Special Issue on Selected Best Papers of the 2011 International Conference on Intelligent Computing and Information Science (ICICIS2011)

Gust Editorial

This special journal issue presents selected best software related papers from the 2011 International Conference on Intelligent Computing and Information Science (ICICIS2011) in Chongqing, China held during January 8-9, 2011. This special issue is to communicate the latest progress and research results of new theory, new method, technology and so on in Software and Information Science, and to grasp the updated research trends in international, which will drive international communication and cooperation of production, education and research in this field. In this special issue, you will find papers regarding the latest progress and research results of new theory, new method, technology and so on in Software and Information Science.

In the first papers of this special issue, "Efficient Mining Algorithms of Finding Frequent Datasets" proposes an efficient mining algorithm to find maximal frequent item sets from relational database.

"Framework of Analyzing Service-Centric Cluster Supply Chain: A Case Study of Collaborative Procurement" presents an analytic framework to present the completed modeling process of collaborative procurement. The framework includes four views - business modeling, specification modeling, realization modeling, system evolution.

"Research of Vehicle Type Recognition System Based on Audio Video Interleaved Flow for Toll Station" proposes an algorithm of vehicle recognition through counting number of black pixels included in vehicle body contour.

"Content Classification by folksonomies: Framework of Social Bookmarking System" presents an improved framework to web content classification based on Folksonomy.

In the paper "Mining Large-Scale Social Images with Rich Metadata and Its Application", we study on how to automatically mine landmarks from large-scale social images with rich metadata.

"Unified Electronic Currency and Its Software Design Based on the Fourth Party Platform Integrated Payment Service" presents a solution of unified e-currency and its software design based on the fourth party platform integrated payment service.

"2-Tier Cloud Architecture and Application in Electronic Health Record" propose a novel 2-Tier Cloud-ARchitecture (2TCAR), which contains RIA-based rich client tier and SimpleDB-based server-side Cloud tier.

"Test Model for Security Vulnerability in Web Controls based on Fuzzing" analyzes test model for Web controls' vulnerability, and put forward a improved test model for Web controls' vulnerability.

"Automatic Feature Template Generation for Prosodic Phrasing" proposes a hybrid approach which converts the rules generated by classification and regression tree (CART) into templates of transformation-based learning (TBL), and designs a hierarchical clustering based feature combination algorithm for maximum entropy (ME) model.

"Virtual Reality-based Chemical Process Simulation of Pipeline System" design a distributed virtual reality-based pipeline simulation system which has abilities of chemical process training, monitoring, testing and replaying.

"Medical Organization Information Security Management Based on ISO27001 Information Security Standard" is to construct a mechanism for the management of information with regard to security as it applies to medical organizations.

"Optimization of Enterprise Information System based on Object-based Knowledge Mesh and Binary Tree with Maximum User Satisfaction" deals with an approach to the optimization of enterprise information system(EIS) based on the object-based knowledge mesh (OKM) and binary tree.

Aiming at the new requirements of quality control for mass customization, an intelligent process quality control mode which integrated quality prevention, analysis, diagnosis and adjustment is put forward in "Intelligent Process Quality Control System for Mass Customization".

In the paper "Multiple Faces Tracking Based on Relevance Vector Machine", a multiple faces tracking system was presented based on Relevance Vector Machine (RVM) and Boosting learning.

To resolve the problem of heterogeneity of data models among data sources of different railway operation systems, "Metadata-oriented Data Model Supporting Railway Distributed System Integration" has brought forth the concept of metadata dictionary that abstracts related information and information content of each data source.

On behalf of the guest editors for this special issue, I would like to thank the National 863 Program of China and National Science Fund of China. I also thank the conference organization staff, and the members of International Technological Committees for their hard work.

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