

Contents

Editorial	i
Research	
A Novel Defect Tracking Algorithm for Ink-jet Printing Video Based on Particle Filter Framework- ZHOU Jia-Nan, FENG Zhi-Lin, LIN Zi-Huai	405
Kernel Fuzzy C-Means Clustering for Word Sense Disambiguation in BioMedical Texts- K. REN, Y.F. REN	411
Medical Image Retrieval Based on An Improved Non-negative Matrix Factorization Algorithm- J. Wang, S.Y. Lai, M.D. Li, D. H. Lies	421
Adoption of Management Information Systems in Context of Yemeni Organizations: A Structural Equation Modeling Approach- Yaser Hasan Al-Mamary, Alina Shamsuddin, Nor Aziati Abdul Hamid, Mohammed Hasan Al-Maamari	429
Simulation Study on the Effect of Employee Mobility on the Spreading of Tacit Knowledge among Industrial Enterprises Based on the Knowledge Spreading Model- H.M. ZHU, S.T. ZHANG, Y.J. LANG	445
Hybrid Approach for Project Portfolio Selection Taking Account of Resources Management and Interactions between Projects- Khadija Benaija, Laila Kjiri	451
Three-dimensional reconstruction of binocular stereo vision based on improved SURF algorithm and KD-Tree matching algorithm- Jie Cheng	462
Application of Radio Frequency Identification Devices Technology in Vehicle Logistics Electronic Transfer System and Logistics Management Data Errors- Yezhang Liang	467
A New Color Descriptor for Content-Based Image Retrieval: Application to COIL-100- EL ASNAOUI Khalid, CHAWKI Youness, AKSASSE Brahim, OUANAN Mohammed	472
Power Station Flue Gas Desulfurization System Based on Automatic Online Monitoring Platform- Xin Liu, Chengyu Ma, Xueyong Yang, Chongyang Yang, Yongfa Diao	480
Book Review	489
Conference Notification	490

First International Conference on Real Time Intelligent Systems (RTIS 2016)
Taiyuan, China

The Seventh International Conference on the Applications of Digital Information and Web
Technologies (ICADIWT 2016)

Editorial

We are pleased to release the last issue of this volume. This issue has the following outlined ten papers.

The infusion of digital information technology in ink-jet printing industry is visible in recently by observing new research in this domain. Realizing this value the authors *Zhou Jia-Nan*, *Feng Zhi-Lin* and *Lin Zi-Huai* in the paper on “**A Novel Defect Tracking Algorithm for Ink-jet Printing Video Based on Particle Filter Framework**” using a particle filter framework proposed a robust defect tracking algorithm for ink-jet printing fabric products. The authors claim that the experimental results demonstrated the effectiveness and superiority of the proposed algorithm on tracking defect targets undergoing various challenging conditions.

Supervised learning methods and knowledge-based approaches are deployed in word sense disambiguation which involves human involvement. To offset this difficulty the authors *Ren* and *Ren* in the paper on “**Kernel Fuzzy C-Means Clustering for Word Sense Disambiguation in BioMedical Texts**” introduced a unsupervised system for WSD in biomedical texts. With the help of huge experimentation, they conclude that the system is highly efficient and accurate for word sense disambiguation in biomedical texts.

The authors *Wang*, *Lai*, *Li* and *Lies* in the next paper on “**Medical Image Retrieval Based on An Improved Non-negative Matrix Factorization Algorithm (NMF)**” have introduced the non-negative matrix factorization platform for content image processing in medical domain. The authors found that when comparing with the commonly used and multiplicative updating NMF approaches, the proposed method improved the speed of the feedback on the premise of guaranteeing precision and recall rates, and significantly optimized the retrieval accuracy.

Yaser Hasan Al-Mamary, *Alina Shamsuddin* and *Nor Aziati Abdul Hamid* in the paper on “**Adoption of Management Information Systems in Context of Yemeni Organizations: A Structural Equation Modeling Approach**” have proposed an integrated model for management information system with the integration of technological, organizational, and people factors. This research model according to the authors also served as a diagnostic tool for the organizational administrators and managers to identify the factors that impact on successful adoption the management information systems in the organization.

In the next paper on “**Simulation Study on the Effect of Employee Mobility on the Spreading of Tacit Knowledge among Industrial Enterprises Based on the Knowledge Spreading Model**” the authors *Zhu*, *Zhang* and *Lang* have introduced a new approach to describe the spread of tacit knowledge using epidemic models in industrial enterprises. The results of the numerical simulations and analyses in this study can enable the industrial enterprises to improve knowledge and information management.

In the next paper on “**Hybrid Approach for Project Portfolio Selection Taking Account of Resources Management and Interactions between Projects**” the authors *Khadija Benaija* and *Laila Kjiri* proposed a project portfolio selection approach that combines essentially a business strategy method with a scoring model. The approach provides a phase control on two elements, the management of resources and interactions between projects.

Binocular stereo vision is helpful in implementing computer change detection, image correction, three-dimensional reconstruction, and is widely used in many vision fields such as aerial mapping, visual navigation, motion analysis and industrial inspection. The study of *Jie Cheng* on “**Three-dimensional reconstruction of binocular stereo vision based on improved SURF algorithm and KD-Tree matching algorithm**” has used the three-dimensional reconstruction of binocular stereo vision by feature description vector generated by improved surface (SURF) algorithm combined with K-dimension tree (KD-Tree) searching.

RFID has potential vehicle logistics transfer mode and transportation. In the paper on “**Application of Radio Frequency Identification Devices Technology in Vehicle Logistics Electronic Transfer System and Logistics Management Data Errors**” the author *Yezhang Liang* has used the RFID technology in logistics management data error and vehicle logistics electronic transfer system.

In the next paper on “**A New Color Descriptor for Content-Based Image Retrieval: Application to COIL-100**” the authors *ELASNAOUI Khalid*, *CHAWKI Youness*, *Aksasse Brahim* and *Ouanan Mohammed* have proposed a technique for image retrieval based on color feature. The performance of the proposed approach is tested by the authors on a large image collection of the COIL-100 database. Experimental results as they found shown that the proposed approach can achieve significant precision (up to 95% better) and, at the same time, the system is fast.

In the last paper on “**Power Station Flue Gas Desulfurization System Based on Automatic Online Monitoring Platform**” the authors *Xin Liu*, *Chengyu Ma*, *Xueyong Yang*, *Chongyang Yang* and *Yongfa Diao* have introduced an automatic environmental monitoring technology with a combination of data acquisition, analysis and processing, display and data communications. The scheme according to the authors can ensure the efficient and stable realization of all design requirements by the system.

Thus this issue is marked by the technical elegance of ten research pieces.

Editors