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Editorial

The *International Journal of Web Applications (IJWA)* has completed two years of publication and we are pleased to release the first issue of the volume three. In the new volume, we look forward to publish innovate and interesting papers. Out of the five papers, three papers are the extended versions of the papers presented at the Fifth International Conference on Digital Information Management (ICDIM 2010).

In this issue, we publish some quite interesting research pieces. In the first paper on “*An Efficient Web-Page Recommender System using Frequent Pattern Discovery and Dynamic Markov Models*” by *Tich Phuoc Tran, Thi Thanh Sang Nguyen, Kien Cuong Dang and Xiaoying Kong*, the Web-Page Recommender System is proposed to model user web browsing behaviors, extract popular web paths and predict web navigation possibilities. An algorithm is proposed to integrate the advanced Frequent Pattern Recognition methods and Stochastic Markov Models to arrive accurate as well as good computation. The results they obtained indicate that their system scores over other existing systems in complexity reduction and accuracy improvement.

Zeeshan Ahmed in his paper on “*Artificial intelligence based approach for Product Data Management*” addresses the challenges to the Product Data Management based communities and came up with solutions in solving the PDM communities faced problems through artificial intelligence.

Recommender systems have been proposed to exploit the potential of social network by filtering the information and offer recommendations to a user and one important area the Collaborative Filtering (CF) is believed to be a suitable underlying technique for recommender systems on social network. *Wei Chen and Simon Fong* in their paper on “*Collaborative Filtering (CF) technique for recommender systems on social networks*” have proposed a design for collaborative filtering on social network, and a new approach in measuring trust factors by data-mining over a survey dataset is provided by The Facebook Project. They argue that the quantitatively estimated trust factors can be used as input parameters in the CF algorithm.

Yang Hang and Simon Fong in their paper on “*Algorithmic level stream mining for Business Intelligence System Architecture building*” presented a unified view on the real-time BI system architecture powered by stream-mining. They have also given some typical applications in which the architecture can support.

The web is dynamic, complex and heterogeneous. Hence, the processing of its content, searching and providing results are the challenging ones. The process of improving the relevancy of Web search results has been considered as a crucial challenge now. *Anwar Alhenshiri, Stephen Brooks, Carolyn Watters and Michael Shepherd* in their paper on “*Interactive Visual Search Engine for Web Page Searching*” have presented an interactive Visual Search Engine (the VSE) in which both processes of query reformulation and results presentation are visualized. In the user study, the effectiveness of the VSE was demonstrated by them with the comparison to Google.

In the next few issues we will publish a few special issues on many thematic areas.

Editor-in-chief