

In this issue

The current issue has the following state of the art papers.

In the first paper, *Jianying Zhang, Xiukun Wang, Hongbo Liu and Jun Meng* have introduced a new data distribution model, to balance between security and scalability in large distributed data systems. The database schema preferred by them is different from the traditional hierarchical data model which have many parent nodes. The scalability of data distribution and access control administration are evaluated through the instance adapted from the TPC-C database. The results illustrates that their data distribution model is helpful for the system to be resilient and scalable. It is suitable for large distributed system and cloud relational database. For enciphering or deciphering messages a key agreement protocol is used. *Cheng-Chi Lee, Ting-Yao Cheng and Te-Yu Chen* in their paper on '*Generalization of Multiple Key Agreement Protocol based on Bilinear Pairings*' proposed an extended protocol to establish 2n2 common secret keys in a single round. The proposed protocol is based on bilinear pairings. Besides, the correctness, security, and efficiency of the proposed protocol are presented. The mobile Ad Hoc networks provide quality of service (QoS) support in terms of bandwidth and delay which is essential for voice and video applications. In the paper on '*An AODV Based QoS Routing Protocol for Delay Sensitive Applications in Mobile Ad Hoc Networks*,' *Rakesh Kumar, Anil K. Sarje and Manoj Misra* have proposed an on demand delay based quality of service routing protocol (AODV-D) to ensure that delay does not exceed a maximum value. They document that the performance comparisons of the proposed AODV-D protocol against AODV, and QoS-AODV is presented and shown that the proposed protocol outperforms existing ones.

Euthymios Drymonas, Kalliopi Zervanou and Euripides G.M Petrakis in their paper on '*Exploiting Multi-Word Similarity for Retrieval in Medical Document Collections: the TSRM Approach*' have introduced multi-word domain terms to represent medical texts which reflect multi-contexts. They claim that the proposed model expresses content semantics. The evaluation model of TSRM is based on OHSUMED, a standard TREC collection of medical documents and illustrated the efficiency of TSRM over other well established general purpose IR models.

Santi Caballé, Àgata Lapedriza, David Masip, Fatos Xhafa and, Ajith Abraham in their paper on '*Enabling Automatic Just-in-time Evaluation of In-class Discussions in On-line Collaborative Learning Practices*' have proposed a multidimensional model based on data analysis from online collaborative discussion interactions that provides a first step towards an automatic evaluation in just-in-time fashion. Further, they have shown the context of this study which is a real on-line discussion experience that took place at the Open University of Catalonia in Spain.

The cultural view of the Website Information Architecture is studied by *Wan Abdul Rahim Wan Mohd Isa, Nor Laila Md Noor and Shafie Mehad* with practical data in their paper on '*Web Architectural-Inducing Model (WA-IM) for Information Architecture in Cultural Context*'. They have developed the Web Architectural-Inducing Model (WA-IM) as part of the localization process towards the creation of cultural information structure. *Xin Ying Qiu* in his paper has presented the effectiveness of applying machine learning and text mining techniques to building predictive models with annual reports. His results show significantly positive average returns over 5 years with a power law trend as we increase the ranking threshold.

We hope that the papers published in this issue are the important contributions in 2010.

Editors