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Editorial

This issue includes 5 extended and revised papers from the Fifth International Conference on Digital Information Management (ICDIM 2010).

Ho Si Meng and Simon Fong in the first paper on **Web Visualization system for monitoring e-Government web pages** proposed a Web Monitoring System (WMS) in their early research that monitors the performance of a web portal in realtime. They have advocated a tool comprised of visualization and fuzzy association rule mining, called Web visualization System (WEBVS), as an extension to the WMS for monitoring and analyzing performances of e-Government websites. The proposed system offers effective results in experimentation.

In the next paper, **Hierarchical Clustering Model for Automatic OLAP Schema Generation**, *Muhammad Usman, Sohail Asghar* and *Simon Fong* proposed a model for data mining and automatic schema generation of three types namely star, snowflake, and galaxy. Hierarchical clustering technique of data mining was used and schema from the clustered data was generated by them. Further they have also developed a prototype of the proposed model and validated it with the help of a series of experiments of real-life data sets. The proposed model is significant they claim as it supports both integration and automation process.

In the paper on **"Enhanced Audio Watermarking Algorithm using Discrete Wavelets Transform and Singular Value Decomposition,** *Ali Al-Haj Christina Twal* and *Ahmad Mohammad* proposed an effective, robust, and inaudible audio watermarking algorithm. The effectiveness of algorithm has been brought by virtue of applying a cascade of two powerful mathematical transforms; the discrete wavelets transform (DWT) and the singular value decomposition (SVD). They have documented the results which demonstrate the effectiveness of the proposed algorithm.

In the fourth paper on **Formal contextual security model for pervasive computing applications**, *Yehia ElRakaiby, Fr'ed'eric Cuppens* and *Nora Cuppens-Boulahia* presented a formal contextual security model for pervasive computing applications. They have identified three major features of the model such as the support of authorization and obligation policies, monitoring and dynamic revocation of access rights, support of personalized security rule contexts, and support of collaborative applications. They have explained that their model is also logic-based. They have hightlighted that it enables the use of formal policy conflict and dynamic system analysis techniques.

In the final paper on **Level wise search algorithm based on action and non-action type data to find irregular association rules**, *Razan Paul, Abu Sayed* and *Md. Latiful Hoque* have observed that irregular association rules can be discovered efficiently based on action type and non-action type data from large database. They argue that there is no algorithm that can determine such type of associations. They have tested the effectiveness using health care data that demonstrate real world patient data set.

The papers published in this issue represent a good and focussed spectrum of important issues in electronic technology.

Editor-in-chief