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Research

- The Second International Conference on Future Generation Communication Technologies (FGCT 2013)

- The First International Conference on New Visions for Information and Communication Technology (ICNVICT 2013)

- The Fifth International Conference on the Applications of Digital Information and Web Technologies (ICADIWT)

Editorial

This issue of the ***Journal of Information Technology Review*** has the following research.

Genetic algorithm tends to have numerous applications in the IT environment and research. Automatic visual speech recognition system (AVSR's performance is found to be significantly improved with the optimization of Hidden Markov Model (HMM) using Genetic Algorithm. *Amina Makhlouf, Lilia Lazli* and *Bachir Bensaker* in the training process found significant improvement of the recognition rates. Their paper on **Hybrid Hidden Markov Models and Genetic Algorithm for Robust Automatic Visual Speech Recognition** is supported with good number of frames from Arabic database.

Hammadi Abdennadher, Mohamed Aymen Boujelben and *Sarah Ben Amor* in their paper on **An Extension of PROMETHEE with Evidential Evaluations** proposed a model inspired by PROMETHEE. The ranking approaches are further illustrated with examples.

The eXtensible Mark-up Language has good impact on data exchange. *Taher Ahmed Ghaleb* and *Salahadin Mohammed* in their paper on **Novel Scheme for Labeling XML Trees based on Bits-masking and Logical Matching** introduced a novel labeling scheme XDAS whose labeling technique is inspired by IP addressing and subnetting technique used in computer networks. The Experimental results enabled to provides an efficient label size and disk space required to store labels.

In the last paper on **Understanding the Overhead of Large Layer 2 Data Center Networking: Measurement and Analysis of TRILL as an Example**, the authors *Chunyang Lu1, Zhixiong Jiang, Jinping Yu, Gan Zhang, Mingfu Li, Wei Liang* and *Jingping Bi* have documented the inefficiency of large layer 2 approach in data center networks. They have setup a data center environment and evaluated the intra-VLAN forwarding and inter-VLAN forwarding of TRILL. They have presented the experimental results and discussed them at length.

The published papers provide good inputs for further research.

Editors