
Journal of Information Technology Review Volume 4 Number 2 May 2013

Contents

Editorial	i
Research	
Knowledge Management for Effective Clinical Diagnosis in Developing Countries- Amararachchi, J. L., Pulasinghe, K., Perera H. S. C.	51
Parallelization of KMP String Matching Algorithm- Ubaid S. Alzoabi, Naser M. Alosaimi, Abdullah S. Bedaiwi, Abdullatif M. Alabdullatif	60
Performances Improvement of Back Propagation Algorithm Applied to a Lane Following System- Mohamed Slim Masmoudi, Imen Klabi, Mohamed Masmoudi	65
Control Platform for Radiotherapy Services- ALLAM Abdelkrim, BAGHRADJI Abdelkrim, OUSSALAH Slimane, KHITER Belkacem, FERHAT Sabrina	73
Cone of Influence and Constants Propgation Reduction Techniques for MDG Model Checker- Saad Elmansori	80
Introducing Semantic to the Industrial Maintenance- Mokhtaria BEKKAOUI, Sidi Mohammed MELIANI, Mohammed Chakib SEKKAL	90
Conference Notification	98
• The Fifth International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2013)	
• The Eighth International Conference on Digital Information Management (ICDIM 2013)	
• The Third International Conference on Innovative Computing Technology (INTECH 2013)	
• The Second Symposium on Nature Inspired Computing and Applications (NICA) @ AISB 2013	

Editorial

This issue has five interesting papers.

The first paper by Amararachchi, Pulasinghe, and Perera on “**Knowledge Management for Effective Clinical Diagnosis in Developing Countries**” addressed the application of knowledge management in health sector. They have provided a framework for clinical aspects of health systems where knowledge management has potential. Their work is supported with voluminous amount of data.

Ubaid Alzoabi, Naser. Alosaimi, Abdullah Bedaiwi and Abdullatif Alabdullatif in their paper on “**Parallelization of KMP String Matching Algorithm**” have proposed parallel algorithms for string matching. They also presented simulations to support their algorithms with evidences.

In the next paper on “**Performances Improvement of Back Propagation Algorithm Applied to a Lane Following System**” the authors *Mohamed Slim Masmoudi, Imen Klabi and Mohamed Masmoudi* proposed a back-propagation with momentum (BPM) algorithms with a new high-level hardware FPGA design methodology, for artificial neural networks. The authors claim that the simulation results showed the ANN trained by BPM algorithm will provide better performances than that trained by simple BP algorithm.

In the next paper the authors *ALLAM Abdelkrim, BAGHRADJI Abdelkrim, OUSSALAH Slimane, KHITER Belkacem and FERHAT Sabrina* on “**Control Platform for Radiotherapy Services**” have proposed a controlled platform of the radiotherapy service. They have presented a design with implementation and also they have presented the results.

Saad Elmansori in the paper on “**Cone of Influence and Constants Propgation Reduction Techniques for MDG Model Checker**”, has introduced a simple but powerful Cone of Influence and constants propagation reduction techniques to improve the efficiency of verification process of MDGMC.

In the last paper on “**Introducing Semantic to the industrial Maintenance**” the authors *Mokhtaria BEKKAOUI, Sidi Mohammed MELIANI and Mohammed Chakib SEKKAL* proposed an approach to build a knowledge base based on ontology.

We wish a good reading.

Editors