IJASAT

International Journal on Islamic Applications in Computer Science and Technology

FORWARD

By the grace of Allah, it is a great pleasure to introduce the seventh issue of the Journal which is the third of volume 2 of

The International Journal on Islamic Applications in Computer Science and Technology

The success and the welcome of the previous issues of this Journal by researchers from many countries, gave us great encouragement to continue issuing in the due time.

This Journal is aimed at publishing original research papers in the field of Islamic Applications in computer science and technology. This field is catching a momentum in the recent years. As a Journal interested in this field, it is the first International Journal of its specific field. As research is growing in this field, we hope that this Journal will be a platform for researchers working in the field to publish their research.

This issue contains 4 papers. The first one has the title of:

Program for Developing the Novel Quran and Hadith Authentication System

The paper proposes to develop and evaluate a Quran authentication system. The aims are to provide reliable and intuitive system to assist both any central body and end users to assess the authenticity of the digital Quran applications, before using them. It can be used as a tool/mechanism to improve the digital Quran publishing regulations and users' confidence towards digital Quran applications.

The second paper is entitled:

Recognizing culture based religious icons from Muslim culture user interface design (MCUID) prototype.

This paper aims to shift the focus of development from standard interface design to Islamic interface design. A framework has been developed adapted from Culture Centered Design. Important factors have been added to the framework especially on Islamic values as a way of life and a journey towards serving Allah. Furthermore, an interface prototype known as Muslim Centered User Interface Design (MCUID) prototype is created. This paper is focused on the empirical investigation through interface recognition test using closed card sorting technique towards the prototype. The analysis tabulated the patterns of Muslim users' perceptions using Atlas.ti 7 both in qualitative and quantitative measurements.

The third paper is entitled:

Automatic Knowledge Base Constructor for Al-Quran Retrieval System

The current work included in this paper looks into development of knowledge representation formalism for Al-Quran using the logical base as it is expressive in nature and has proven successful previously even in complex situations. The logical base needs indexing in order for efficient retrieval as well. It would be extremely difficult to maintain the consistency of the logical base if done manually. Hence this work primarily focuses on development of an automatic knowledge base constructor. The current work has a large significance, as it will ease the process of information access to the Muslim community by using the knowledge base for retrieval mechanisms. Not only that the work will be beneficial for Non-Muslims to know more about Al-Quran easily and thus gaining more and more information about Islam.

The fourth paper is of the title:

Intelligent Tool for Mufti Assistance

In this paper interest is focused on reasoning modes in legal domain and more exactly in Islamic legislation field. The approach consists of solving a new problem by reusing the solution of a similar problem already met, and stored in a memory of cases. The interpretative case based reasoning is a process of assessment of situations or solutions in a previous experience context. Judges in their courthouse interpret a new situation in the light of case already met (case of jurisprudence). This style of reasoning is applied in the Islamic legislation field as a tool of information retrieval which can be used during the process of Fatwā generation.