

**MECHATRONICS BOOK SERIES**  
**SELECTED PAPERS FROM**  
**ICOM'01, ICOM'05 AND**  
**ICOM'08**

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Asan G. A. Muthalif  
Amir A. Shafie  
Momoh J.E. Salami



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## **Harmful Data Factors that Affect Internet's Users in Educational Industry**

Shihab A. Hameed

Electrical & Computer Engineering Department  
Faculty of Engineering, IUM University, Malaysia  
E-Mail: [shihab@iiu.edu.my](mailto:shihab@iiu.edu.my)

### **ABSTRACT**

Internet can play a great role to evolve the education process and industry in this era of knowledge and information technology. Internet has an important affect on students, academic staffs, researchers and other users. It facilitates information retrieving and publication, provide tools to expand knowledge beside supporting video conferencing and distance learning. Although Internet has an appreciated role in enhancing education process but it still has some drawbacks and harmful impacts that affected its great role such as: slow data accessing, retrieving huge volume of related data, existence of not trusted and harmful information, has a bad impact on ethical, religious and cultural concerns, short life of the URLs. This paper is a survey study to determine: the main harmful data factors that affect internet users in education, the ways of getting harmful data and the user's acceptance to do filtration for such data. The survey results show that there is a need to develop an Intelligent Data Filtration (IDF) tool, which have the ability to filter text, figure, pictures, video and audio data according to regulations related to ethical and social aspects of the society. The implementation of such proposed tool will lead to improve the internet usage and consequently increase its performance in educational industry.

**KEYWORDS:** Internet Drawback, Harmful Data, Intelligent Data Filtration, Educational Industry.

### **1. INTRODUCTION**

In this era of knowledge and the beginning of a new millennium; computer and information technology are rapidly used in education [1, 2]. The educated people and their ideas, which facilitated and augmented by rapidly evolving information technology, become a driving force for great change in all institutions [3]. After more than five decades of computer usage and two decades of Internet. The higher education should evolve rapidly to create a culture of learning in which education opportunities become pervasive through the use of information technology. When personal computers started, about three decades ago, many people thought that computers would revolutionize: education, computer-based teaching and learning would become the savior of education and the solution to falling test scores. Literature [4] shows that some people believe a revolution is taking place in education in the way people learn and the way instruction is given. The Internet usage in education process nowadays is expanding rapidly in teaching, learning, and researches. Although the Internet has a great role in improving the education process but as any technology it still has some drawbacks and harmful impacts. Since the ethical, religious and social values have an essential affects on the education process in any society so we have to study the harmful impact of internet on these values. This paper is a continuation of our previous research work [5, 6], which shows a framework for eliminating weakness and harmful impacts in Internet. This paper is part of a survey study done in IUM University as one of the higher education institutes in Malaysia. It focuses on studying and determining the main harmful data factors that affect Internet's users and then determine how those users get such data, and finally showing the user's acceptance to do filtration for such data. The paper proposes some guideline for developing a software tool as a solution to overcome such problems.