

Foreword and Editorial

International Journal of Multimedia and Ubiquitous Engineering

We are very happy to publish this issue of International Journal of Multimedia and Ubiquitous Engineering by Science and Engineering Research Support soCiety.

This issue contains 6 articles. Achieving such a high quality of papers would have been impossible without the huge work that was undertaken by the Editorial Board members and External Reviewers. We take this opportunity to thank them for their great support and cooperation.

In the paper “Optics Based Biosensor for Medical Diagnosis”, biosensors have played a major role in diagnosis of various diseases and are also associated with detection of micro-organisms and other biological components. There are various types of biosensors available in the field, each having benefits one over the other. This paper explains the basic theory and operational setup of SPR based biosensors which are fast in their performances and are real time implemented. These plasmonic based biosensors includes waveguide arrangements along with a Au/Ag bimetallic enhancement concept. One of the benefits of coupling of light source with surface electrons will give raise to surface Plasmon which is very efficient in recognition of biomolecules without any external biomarkers. Placing a second metal layer above the dielectric layer as well as below, metal-insulator-metal (MIM) waveguide had been developed.

In the paper “Analyzing the QoS Parameters in WiMAX Using Adaptive Modulation and Coding Schemes with HARQ”, the performance of QoS parameters for video conferencing in WiMAX network has been analyzed using adaptive modulation and coding schemes (AMC) with Hybrid Automatic Repeat Request (HARQ). HARQ when used with AMC, proved to be most suitable for WiMAX because of its hybrid nature, as it takes both MAC and link layer into account. QoS performance parameters are evaluated using OPNET modeler 14.5.

Paper “Risk Level Prediction of Chronic Kidney Disease Using Neuro- Fuzzy and Hierarchical Clustering Algorithm (s)” states that Chronic Kidney Disease (CKD) is usually characterized by a gradual loss of the functioning which the kidney does over time due to various factors. Early prediction and treatment save the kidney and halts the progress of CKD. CKD disease is being viewed as global public health issue for the past decade. The greatest threat for this deadly disease is developing countries where getting therapy is very expensive. The importance of predicting individuals who are at risk of CKD as well as applying clustering techniques cannot be underestimated since these can modify the progression of the disease. Identifying the silent killer disease early offers best opportunities for implementing possible strategies for lessening the probability of kidney loss.

The paper “Performance Analysis of Rayleigh and Rician Fading Channel Model” presents an overview of performance analysis for Rayleigh and Rician fading channel models. Analysis of the channel models are virtually carried out in terms of outage probability, source probability, Bit Error Rate and Signal to Noise Ratio. Source and outage probability has been computed to compare the signal detection characteristics under different models. Further, channel estimation has been done via different methods which include least square (LS), Least Square Modified (LSMod), Minimum Mean

Square Error (MMSE). The results obtained can be used to optimize the performance of the network.

In the article “Visual Related Analysis and Application of Saline Soil Culture Design Factors”, saline soil culture is one of the driving forces of human civilization development. Nevertheless its spiritual heritage has not been effectively passed on. Creative product design helps culture to be widely recognized with a sense of the times, the connotation value of the product is enhanced, through which attraction towards the certain culture is expected to increase. Accordingly, this paper proposes a creative design idea based on visual related analysis for the saline soil culture. Through research on the revolutions influenced by three salt ancestors, the artifacts involved are analyzed, then the extraction of characteristic factors is performed by action verbs and other modern design methods.

The research “No Feeling vs Depth Feeling Journalisms: A Critical Review of the Political Interest Dominance over Principles of Journalism in News and Information on Television in Indonesia” focusses on the phenomenon of violation to journalistic principles that is the development of “no feeling journalism” in news and information broadcasting on television. This study analyzes the practice of journalism which is dominated by political interest of media owner who are also politicians which then followed by their staffs in the field. Besides that, the violation to the code of ethics and the code of conducts seem let to happen, and the society become permissive, sceptical, and don't care to what the media did in their broadcasting. This descriptive analysis use Phenomenology phylosophy of Edmund Husserl and Alfred Schutz, or other phenomenologists, also other relevan theories. Analysis also use broadcast regulations, Kovach & Rosentiel's journalism elements, and Code of Conducts & Broadcast Programme Standard from the Indonesian Broadcasting Commission (KPI), also personal documentary of interview with informen, field observation, literature study, and online study.

August 2017

Sabah Mohammed, Lakehead University, Canada

**Editors of the August Issue on
International Journal of Multimedia and Ubiquitous Engineering**