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Editor's Note

Computer science deals with designing and development of software programs, operating systems and technology based on data processing and mathematical algorithms. Information technology deals with the implementation and practice of technology in order to find solutions and develop applications. American Journal of Computer Science and Information Technology publish recent research outcomes and innovative outcomes contributed by the experts in this field. The current issue comprises of the articles on generalization of intuitionistic fuzzy soft-set; use of tunable-Q factor wavelet transform (TQWT) based features for classification of amyotrophic lateral sclerosis (ALS) and healthy electromyogram (EMG) signals; the role of computer science and information technology in education; evaluation of the functionality level in terms of accessibility and usability of Nigerian airline websites; determination of effectiveness of traditional and system-based management examination in computer in Philippines; interpretation of game logic as well as the use of radio frequency identification technology (RFID) for management of medical files of patients and detection of black hole attack on Ad-Hoc On-Demand Distance Vector (AODV) protocol in Mobile Ad hoc Network (MANET). Dutta [1] described a method for soft-computing of reliability of a complex system under intuitionistic fuzzy situation by introducing the IFuzzification and De-IFuzzification of imprecise data and found that reliability has an inverse relation with real-time and also with the incorporation of more number of components in the configuration of the system. Kiran et al. [2] demonstrated extraction of features including mean absolute deviation (MAD), interquartile range (IQR), kurtosis, mode, and entropy from the sub-bands after decomposition of EMG signal into sub-bands by TQWT and were subsequently fed as inputs to classifiers to classify ALS and healthy EMG signals. The TQWT based features with k-NN classifier reportedly obtained 95% classification accuracy. Agatep [3] reviewed the recent trends in application of computer science and information technology in educational research and emphasized on developmental design and experimental design to solve problems caused by wrong or excessive usage of technological inventions. Due to advancements in information technology in the aviation industry online flight services is gaining prominence. Oyefolahan et al. [4]

evaluated the accessibility and usability of top popular commercial Nigerian airline websites and observed that none of the websites was devoid of problem and did not satisfy the accessibility guidelines. Based on a study comprising of questionnaire and documentary analysis of 120 student respondents, Agatep [5] observed that the respondents were moderately effective in traditional examination approach and effective in system based management approach. Game logic represents a dynamic modal logic which strategically models two person games based on propositional dynamic logic. Doberkat [6] derived interpretation of game logic based on stochastic affectivity functions and emphasized on introducing new formalism beyond stochastic Kripke models. Manual system of medical file management is very time consuming and clumsy with chances of error. Rahman [7] reviewed the use of RFID technology in the management of patient files by describing the limitation of manual records, drawbacks of using barcode in medical record and the basic methodology of using RFID technology in terms of searching, identifying, issuing, receiving and organizing and suggested that RFID technology is essential for tracking of patients medical record. A Mobile Ad hoc Network (MANET) represents an aggregation of mobile terminal with wireless interfaces. However, due to lack of central administration and no clear defense mechanism, MANET is vulnerable to black hole attack. Koujalagi [8] demonstrated the use of Black Hole Detection System and observed that the solution minimized the loss of data and decreased average jitter while increasing the throughput. The current issue would be useful in developing methods for intuitionistic fuzzy data; in development of an automated, fast and accurate method for diagnosis of the ALS and EMG signals; in improvement of educational methods, strategies and pedagogical resources; for improvement in website accessibility and usability; in improved assessment of students' academic performance; for better interpretation of game logic; in encouraging the use of RFID technology in management of patient medical records as well as in minimizing the data loss by considerable detection of black hole attack on mobile ad hoc network.

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