

From the Editor-in-Chief

This is to welcome all to Volume 12, Number 2, June 2019 edition of *African Journal of Computing & ICT*. Nine (9) papers from various areas of computer science, computer engineering and information technology appear in this edition.

The paper by Ikenna Uzoma Ajere and Charles Ikerionwu is a survey of wireless communication technologies useful for IoT-based health care systems. The authors conclude that the future of IoT application in the health sector depends on 5G network.

The paper by J. F. Opadiji, T. O. Fajemilehin and S. A. Olatunji presents a performance evaluation of uniform (i.e. equally spaced) linear array antenna via optimization of the radiation pattern using two optimization techniques. These techniques are Least Mean Squares (LMS) algorithm and Genetic Algorithm (GA). It was shown, among others, that given the same number of elements, LMS performs better with respect to reduction in beamwidth. However, GA performs better in terms of reduction of the side lobe level.

The work of Abdullateef O. Balogun, Rufus O. Oladele, Hammed A. Mojeed, Barakat Amin-Balogun, Victor E. Adeyemo and Taye O. Aro is also on performance evaluation. In it, the authors studied seven selected clustering techniques and three standard classification methods with respect to software defects prediction. These methods are K-Nearest Neighbor (KNN), Naive Bayes (NB) and Decision Tree (DT) algorithms. It was shown that Farthest First clustering technique has the best performance based on the average accuracy. It was also shown, among others, that Farthest First and Hierarchical techniques perform better than some standard classification methods in certain respect.

In her paper, G. B. Balogun presented a modified linear search algorithm, otherwise referred to as bilinear search algorithm. The new algorithm performs better in terms of the number of steps required to locate a number in an array.

The paper by Sylvanus A. Ehikioya presents a model for studying path analysis for effective understanding of visitors' navigation in an E-commerce website. The author developed a path tree (string-like) structure and an algorithm for constructing such a tree.

The design and implementation of a radio frequency identification system suitable for attendance monitoring is the focus of the paper by T. C. Adeniran, Y. Sanni, N. Faruk and L. A. Olawoyin. The system takes students' attendance and calculates it in percentages by scanning data tag.

Cooperative spectrum sensing is the theme of the paper by S. A. Olatunji, T. O. Fajemilehin and J. F. Opadiji. In it, the authors developed an adaptive cooperative spectrum sensing algorithm towards reducing the computational time for cooperative sensing. The paper is significant for dynamic spectrum management in telecommunication systems.

Greenstone and DSpace digital library software is the focus of the paper by Fasola P. Abifarin and Shaka A. Imavah. The authors consolidate on their 2018 study of the software (*African Journal of Computing & ICT*, Vol. 11, No. 1, pp. 28-35). Unlike the earlier study which compared the response time performance testing of the two software, the present paper evaluated the retrieval effectiveness of the two software in handling rich text data using recall and precision ratios. It was shown, among others, that DSpace has a higher recall than Greenstone software while Greenstone has a higher precision than DSpace.

And the last, but in no means the least, is the paper by Nancy C. Woods, Emmanuel O. Abuh and A. B. C. Robert. In it, the authors developed a recognition and counting system for pineapple fruit using digital farm image. This will help farmers to estimate their yield, manage their farm and hence increase their productivity.

Readers are encouraged to enjoy this second edition of the journal in 2019. Appreciation goes to all our authors, reviewers and members of the Editorial Board for making the publication of this edition possible.

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