Abstract Details

Title: Efficient MAC based on Hybrid JAYA-TLBO-PSO Optimization for Wireless Body Area Network

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Abstract: This paper discusses a hybrid algorithm that enhances the performance of the hybrid TLBO-PSO algorithm by using JAYA algorithm. The hybrid JAYA-TLBO-PSO algorithm works similar to the hybrid PSO-TLBO algorithm except the teacher phase of the algorithm. In this phase position updation is done by the JAYA algorithm. This algorithm has been implemented in the Wireless body area network to design an efficient MAC. The analysis of the optimized MAC based on JAYA-TLBO-PSO algorithm shows the significant improvement over existing algorithms.

Keywords: JAYA, TLBO, PSO, WBAN, MAC.