

# **A Proposed Hybrid Feature Selection Method for Data Mining Tasks**

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Feature selection technique is one of the important data pre-processing steps in data mining; it is used to find the important features subset in order to create a new subset of informative features. The model that used the informative subset such that a classification model built only with this subset would get better predictive accuracy than model that used a complete set of features. Hence, this technique can improve several data mining techniques by increasing its performance and reduce its computational time. In this study, we are going to propose a hybrid method based on Sine Cosine Algorithm (SCA) with Genetic algorithm (GA) that utilizes to select the best features in order to improve the performance of the feature selection problem. The performance of propose method will evaluate using 16 datasets from University California Irvine UCI Machine Learning repository such as (Breast cancer, Exactly, Waveform and others) and compare with original Sine Cosine Algorithm (SCA) and other related approaches in the literature such as Ant Lion optimization (ALO) and Particle Swarm Optimization (PSO).

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