

## **Feature Selection in Bioinformatics Through Advanced Metaheuristics**

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### **Abstract**

Bioinformatics involves analyzing complex biological datasets, making feature selection a critical step. This paper investigates advanced metaheuristic algorithms, such as Genetic Algorithms and Particle Swarm Optimization, for feature selection in bioinformatics. By reducing dimensionality and improving accuracy, these techniques enhance the analysis of genomic and proteomic data, leading to more efficient biological discoveries.

### **(Keywords:)**

Feature Selection, Bioinformatics, Metaheuristics, Genomics, Proteomics

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