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Optimization of Antenna Performance Through Machine Learning Algorithms

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Abstract

Antenna performance is crucial for efficient communication systems. This paper explores the application of machine learning algorithms to optimize antenna parameters such as gain, bandwidth, and efficiency. Techniques like support vector machines and neural networks are employed to develop adaptable and high-performance antenna designs. Results show that machine learning significantly improves the accuracy and efficiency of antenna optimization processes.

(Keywords:)

Antenna Optimization, Machine Learning, Neural Networks, Communication Systems, Performance Enhancement

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