Abstract

Linear antennas are used as an alternative solution for large dimensioned antennas such as paraboloidal cylinders, offset focus paraboloids. This paper presents a review of various algorithms used for optimization of linear array such as Genetic Algorithm (GA), Particle swarm Optimization Algorithm (PSO), Accelerated Particle Swarm Optimization Algorithm (APSO), Simulated Annealing Algorithm (SA), Cuckoo Search Optimization Algorithm (CS), Flower Pollination Algorithm (FPA), Ant-Lion Optimization Algorithm (ALO), Invasive Weed Optimization Algorithm (IWO), Grey Wolf Optimization Algorithm (GWO), from the review it was observed that ant-lion Algorithm (ALO) is better for optimizing antenna currents.

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Index Terms

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Keywords

Antenna Arrays, optimization algorithms, Side Lobe Level (SLL).