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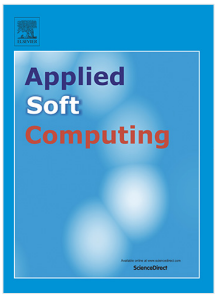

A probability-based coevolving multi-objective algorithm for antenna array synthesis

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*Highlights (for review)

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Highlight:

1. A novel probability-based learning mechanism for adjusting learning directions is introduced.
2. The coevolving particle swarm optimization under multi-objective environment is redefined.
3. A novel grouping penalty strategy for better grouping efficacy is presented.
4. The proposed algorithm shows superior or competitive performance on benchmark test.
5. The study provides better solutions comparing to antenna synthesis in previous literatures.
6. The algorithm obtains significant better performance in comparison with state-of-the-art algorithms on large antenna synthesis.

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