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A multi-objective multi-population ant colony optimization for economic emission dispatch considering power system security

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**Highlights**

- Proposing a new multi-objective algorithm based on ant colony optimization
- Reconstruct the pheromone of the origin algorithm to extends to multi-objective area
- Multi-population ant are used to enhance the searching ability and overcome premature convergence
- Proposing a niche search strategy to improve the solution quality on Pareto front

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