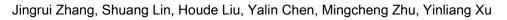
Accepted Manuscript

A Small-Population based Parallel Differential Evolution Algorithm for Short-term Hydrothermal Scheduling Problem Considering Power Flow Constraints



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ACCEPTED MANUSCRIPT

- 1. Power flow constraints are introduced into the short-term hydrothermal scheduling (STHS) problem
- 2. A small-population based parallel DE algorithm is proposed to solve the considered STHS problem
- 3. The operations of gather and scatter and aggregative DE are introduced into the parallel algorithm
- 4. Four constraint handling rules as well as a lead operation are proposed to enhance the feasibility
- 5. Comparisons show the parallel DE approach performs effectively and yields competitive solutions

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