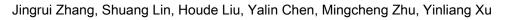
## Accepted Manuscript

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



PII:	S0360-5442(17)30184-6
DOI:	10.1016/j.energy.2017.02.010
Reference:	EGY 10303
To appear in:	Energy
Received Date:	02 June 2016
Revised Date:	21 December 2016
Accepted Date:	02 February 2017

Please cite this article as: Jingrui Zhang, Shuang Lin, Houde Liu, Yalin Chen, Mingcheng Zhu, Yinliang Xu, A Small-Population based Parallel Differential Evolution Algorithm for Short-term Hydrothermal Scheduling Problem Considering Power Flow Constraints, *Energy* (2017), doi: 10.1016/j.energy.2017.02.010

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



## 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

Download English Version:

## https://daneshyari.com/en/article/5476120

Download Persian Version:

https://daneshyari.com/article/5476120

Daneshyari.com