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Economic dispatch of power systems using an adaptive charged system search algorithm

P. Zakian, A. Kaveh

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## Highlights

- Charged System Search (CSS) algorithm is improved with an adaptive approach.
- Adaptive Charged System Search (ACSS) algorithm is proposed for economic dispatch considering different types of constraints.
- A new simple constraint handling approach is developed.
- The performances of both ACSS and CSS algorithms are compared herein.
- Numerous benchmarks from small to large scale test cases are employed.

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