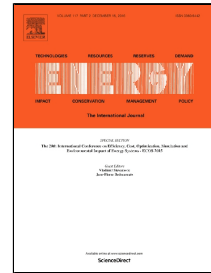


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Gradient decent based multi-objective cultural differential evolution for short-term hydrothermal optimal scheduling of economic emission with integrating wind power and photovoltaic power



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Highlights:

- >Gradient decent method is proposed to improve mutation operator.
- >Hydrothermal system is extended to hybrid energy system.
- >The uncertainty constraint is converted into deterministic constraint.
- >The results show the viability and efficiency of proposed algorithm.

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