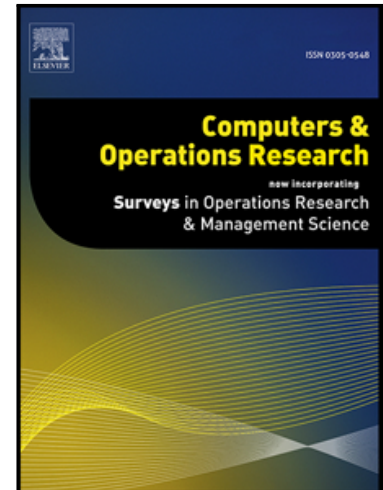


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A long-term capacity expansion planning model for an electric power system integrating large-size renewable energy technologies

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Highlights

- A new model with large-scale renewable energy technologies (RETs) is proposed.
- The proposed stochastic model overcomes the drawbacks of existing models.
- A heuristic-embedded sample average approximation method is proposed.
- Uncertain RETs require more capacity to meet the target reliability of a system.

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