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A Power-Deficiency and Risk-Management Model for Wind Farm Micro-Siting Using Cyber Swarm Algorithm

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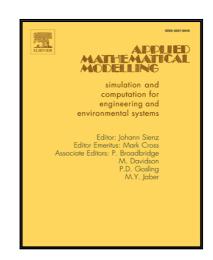
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Highlights

- A power-deficiency and risk-management (PDRM) model for micro-siting is proposed.
- •PDRM mitigates power deficiency risk under wind uncertainty and predicted demand.
- •PDRM provides decision alternatives through comprehensive risk analyses.
- •An effective Cyber Swarm Algorithm (CSA) is developed to obtain PDRM solutions
- •CSA robustness is verified with convergence analysis and worst-case analysis.



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