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Robustness analysis of complex networks with power decentralization strategy via flow-sensitive centrality against cascading failures

Wenzhang Guo, Hao Wang, Zhengping Wu

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***Highlights (for review)**

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HIGHLIGHT

- We present a flow-sensitive (FS) centrality by integrating topological features and dynamical properties.
- We present an optimal mitigation strategy for cascading failures with power decentralization in a power grid.
- Community structure plays an important role in the cascading failure dynamics.
- The proposed measure is successful in enhancing the robustness of power grid networks.

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