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Optimal resource allocation in interdependent networks

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1. Robustness of interdependent networks against cascading failure is studied from the perspective of resource allocation.
2. A novel particle swarm optimization variant algorithm with feedback mechanism is proposed to enhance the robustness of interdependent networks.
3. Different resource allocation patterns among interdependent networks with different couple probability and total tolerance are compared.
4. Types of nodes failure resulted by our algorithm are also studied.

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