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A multi-objective decision model for investment in energy savings and emission reductions in coal mining

Shiwei Yu , Shuhong Zheng , Shiwei Gao , Juan Yang

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## Highlights

- A multi-objective model for energy savings and emissions reduction is proposed.
- A hybrid evolutionary algorithm is developed to solve the mixed integer model.
- The comparison tests show the better performance of the proposed algorithm.
- Best compromise solution is screened by using a proposed integrated method.

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