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Grey-related least squares support vector machine optimization model and its application in predicting natural gas consumption demand

Yong-Hong Wu, Hui Shen

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Highlights

- In order to eliminate redundant information on LS-SVM modeling, the GRA-LSSVM model is proposed
- Weight adaptive SecPSO algorithm is proposed to optimize the parameters of GRA-LSSVM model
- Experiments with China's natural gas consumption data prove that WASecPSO-GRA-LSSVM is superior to other models

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