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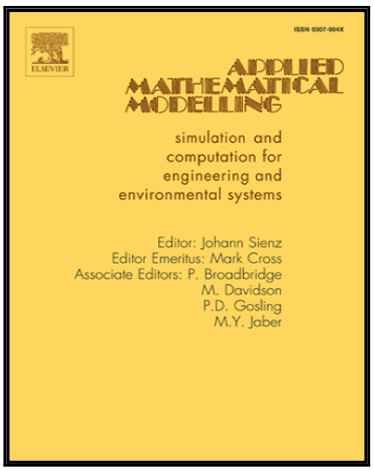

Grey forecasting method of quarterly hydropower production in China based on a data grouping approach

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PII: S0307-904X(17)30440-7
DOI: 10.1016/j.apm.2017.07.003
Reference: APM 11852

To appear in: *Applied Mathematical Modelling*

Received date: 15 November 2016
Revised date: 17 June 2017
Accepted date: 3 July 2017

Please cite this article as: Zheng-Xin Wang , Qin Li , Ling-Ling Pei , Grey forecasting method of quarterly hydropower production in China based on a data grouping approach, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.07.003

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Highlights

- A data grouping approach based grey modelling method is proposed to predict quarterly time series.
- The proposed method can accurately identify and predict the seasonal fluctuation of hydropower production.
- The MAPEs of the test set 2011-2015 solved using DGGM(1,1), GM(1,1) and SARIMA are 16.2%, 22.1% and 22.2%, respectively.
- China's hydropower production from 2016 to 2020 is predicted and relevant suggestions are made.

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