

# Accepted Manuscript

Optimal solution for novel grey polynomial prediction model

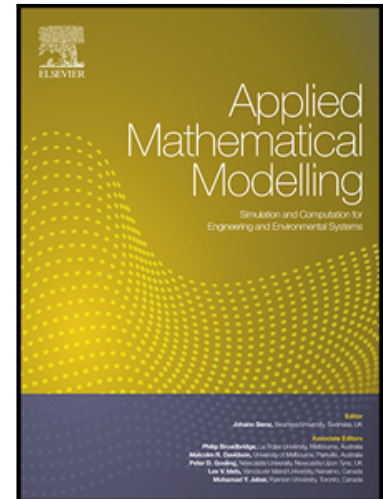
Baolei Wei, Naiming Xie, Aqin Hu

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**Highlights**

- The novel grey polynomial prediction model with nonlinear parameters is proposed.
- The parameter optimization criteria in the existing grey prediction models are unified by weighted least square method.
- The algorithmic framework for selecting the polynomial order and estimating the nonlinear parameters is proposed.
- The affine transformation of the accumulating sequence proves to be independent of modeling performance.

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