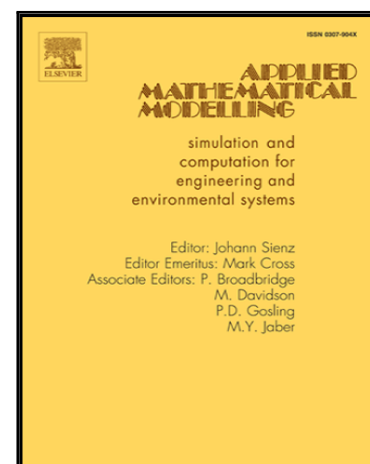


## Accepted Manuscript

Robust parameter identification using parallel global optimization for a batch nonlinear enzyme-catalytic time-delayed process presenting metabolic discontinuities

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**Highlights**

- We quantitatively define biological robustness by penalizing the relative deviation.
- The optimization problem is approximated through the application of some techniques.
- A parallel algorithm is proposed to solve the proposed optimization problem.

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