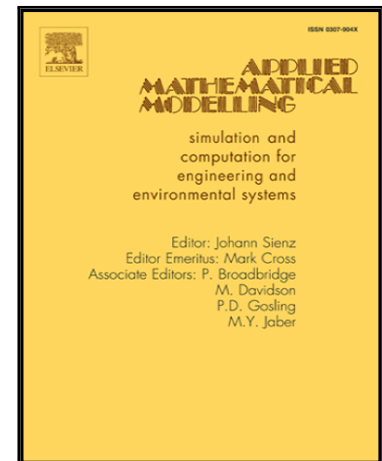


## Accepted Manuscript

Seasonality on the life cycle of *Aedes aegypti* mosquito and its statistical relation with dengue outbreaks

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**Highlights**

- A model for the life cycle of the Ae. Aegypti mosquito is proposed
- Weather seasonality lead to specific population dynamical patterns
- Ae. Aegypti population is a good indicator of dengue transmission risk
- Diapause mechanism can enhance Ae. Aegypti outbreaks
- Dengue incidence data can be used to reveal the underlying mechanism of an outbreak

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