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Robust functional analysis for fault detection in power transmission lines

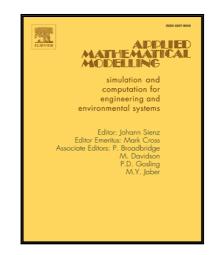
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to submit to Applied Mathematical Modelling

Highlights

- A model for transmission lines under normal operating condition is revisited.
- Improved robust estimates are presented using constrained optimization.
- Upper and lower limits are proposed using non-linear quantile regression.
- Faults are detected using statistical control theory.
- Results shows improved performance for the new proposed method.

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