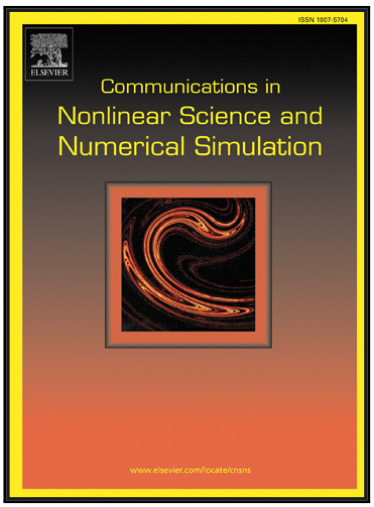

Optimal perturbations for nonlinear systems using graph-based optimal transport

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Highlights

- A framework for discrete-time optimal perturbations for measure transport and mixing is proposed.
- Optimal mass transportation theory is used to model discrete-time perturbations.
- Set-oriented transfer operator approach is combined with optimal transport on graphs.
- Convex formulation leads to globally optimal solutions.
- Optimal perturbations are localized for large time-horizons and exploit lobe-dynamics.