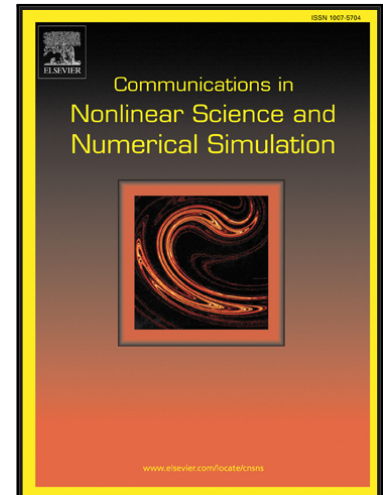


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Use of degeneration to stabilize near grazing periodic motion in impact oscillators

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Highlights

- New control criterion is proposed to control discontinuous grazing bifurcation.
- Unstable near-grazing $1/1$ motion can be stabilized under the proposed criterion.
- The proposed criterion shows advantage over the existing control strategy.

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