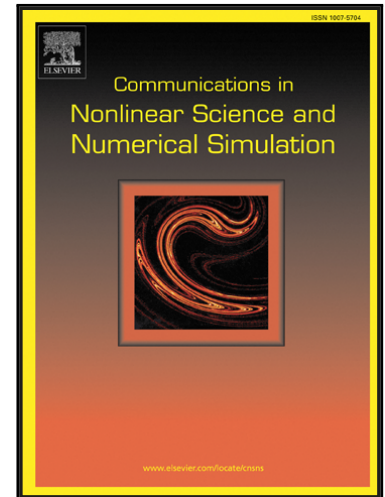


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Chimera states in nonlocally coupled phase oscillators with biharmonic interaction

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Highlights

- Chimera dynamics in nonlocally coupled phase oscillators with biharmonic interaction are investigated.
- In chimera states unique to biharmonic interaction, adjacent coherent clusters may have a phase difference $\pi/2$ and oscillators in a same coherent cluster may split into two groups with phase difference $\pi/2$.
- Multi-cluster chimera states with more than 2 coherent clusters matter for phase oscillators without delay in interaction.

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