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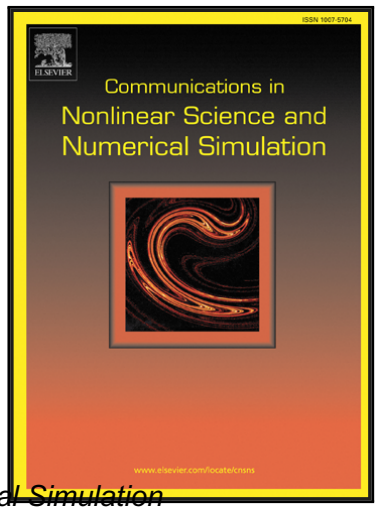

One of signatures of a memristor

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Highlights

- One of main findings is that there exist at least three types of singular continuum, which is one of signatures of a memristor which distinguishes it from non-memristive devices.
- We have obtained two Hopf bifurcation surfaces and a unique unstable periodic orbit, whose existence and uniqueness are proved in a strict mathematical way.
- Our results demonstrate that the three types of singular continuum and a unique unstable periodic orbit may become some of important signatures of a memristor distinguishing from non-memristive devices.

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