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Testing the structure of earthquake networks from multivariate time series of successive main shocks in Greece

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## **ACCEPTED MANUSCRIPT**

## <u>Highlights</u>

- Randomizing the time series provides proper randomized networks.
- Small-world index performs appropriately with time series based randomized networks.
- Small-world structure tend to emerge about 100 days before strong earthquakes.
- Small-world index may be useful in short term seismic hazard assessment.

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