Time Series Analysis in Earthquake Complex Networks

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Message from the Guest Editors

Earthquake time series are complex due to the variety of forces affecting EQ generation, complexity of the Earth's crust and mantle structure, where the earthquake source is developing, and complexity of the EQ process development in space and time. At present, the only way to model these initial stages of EQ source development is experimental and theoretical modeling. New physical/mathematical methods of data analysis like nonlinear dynamics, artificial intelligence/machine learning/deep learning, non-extensive statistical analysis, natural time analysis and complex network approach allow us to obtain mathematical regularities underlying physical/geophysical processes using just the time series of experimental observations.

This Special Issue aims to study the progress in the analysis of complex systems' time series during the fracture process using new approaches. Researchers are encouraged to present original contributions and their latest advancements in theoretical and experimental studies focused on understanding the complexity of earthquake time series.

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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