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Multivariate multiscale distribution entropy of financial time series

Yali Zhang, Pengjian Shang

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The highlights of this manuscript are as follows:

1. Multivariate multiscale distribution entropy of financial time series is introduced as a new way is proposed.

2. The new model can be used to assess complexity of a complex dynamical system.

3. The experiments show this method is more sensitive to the change of short time series and describes the trends of complex systems clearly.