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How the ownership structures cause epidemics in financial markets: A network-based simulation model

Hossein Dastkhan, Naser Shams Gharneh

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The highlights of the paper are:

- Represents a simulation model to analyze contagion and cascading failure in stock markets using ownership networks
- The model is applied to investigate the probability and the extent of contagion in different network structures
- A real dataset from Tehran Stock Exchange is applied.
- The ownership network structure has a significant role in the contagion of financial markets.
- The results of idiosyncratic and aggregate shocks on the networks are significantly different.

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