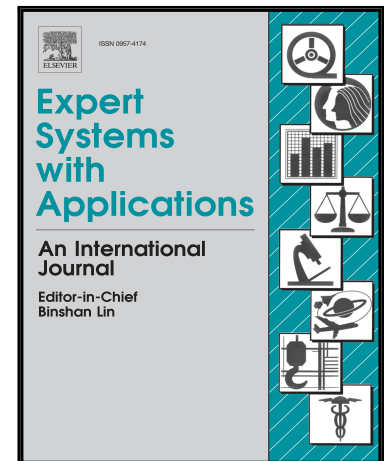


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Disease spreading in complex networks: a numerical study with Principal Component Analysis

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Highlights

- A spreading disease model is set for a population in complex networks;
- The disease is analyzed in a wide range of networks;
- Only average degree helps to estimate the disease propagation for all networks;
- Principal Component Analysis is used to reduce the dimensionality of variables;
- It returns the most influent parameters for disease propagation;

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