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Global attractivity and optimal dynamic countermeasure of a virus propagation model in complex networks

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Highlights:

(1) This manuscript examines the effects of countermeasures and network topology on viral spread.

(2) A novel virus heterogenous propagation model and its optimal dynamic countermeasure are proposed and analyzed.

(3) It is found that our obtained results are contrary to some previous results and countermeasure dissemination to higher-degree nodes is more effective than that to lower-degree nodes.

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