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emerging subject of  
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epidemic diseases have presented a serious threat to human life, and in recent years the spread of infectious diseases such as dengue, malaria, HIV, and SARS has captured global attention; and in the modern technological age, the proliferation of virus ...

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Network. With the  
development of  
complex networks and  
communication  
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phenomena in the  
fields of computer  
science, biology,  
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economics are  
characterized by  
“propagation dynamics  
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and the methods to  
reveal their  
propagation laws are  
widely used [22–24].  
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Professor Youzhong  
Guo on the occasion of  
his 75th birthday This  
paper provides a  
partial summary of our  
recent work on  
propagation dynam-ics

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**(PDF) Epidemic  
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Dynamics on  
Complex Networks**

Because of the  
complexity of air  
transport networks ,  
evolution of congestion  
within them possesses  
the characteristics of  
propagation in complex  
networks. Delay  
propagation occurs  
when late arrivals at an

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airport cause late departures, identifying the cause but not the mechanism of propagation. The basic regulation and trends of propagation dynamics can be obtained from observation of flow distribution.

## **Application of Epidemiology Model on Complex Networks in ...**

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network are 1) the interaction structure of the nodes in the complex networks; and 2) the rules governing the dynamic change of the nodes' states in the complex networks. In this paper we propose a novel "differential" deep learning based approach to learn the continuous-

### **Neural Dynamics on Complex Networks**

This book explores the



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emerging topics of epidemic dynamics on complex networks, including theories, methods, and real-world applications. Providing an introduction of general epidemic models, it continues with models evolving over complex networks and presents results concerning dynamics of Network-based models on a macroscopic scale.

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Despite the extensive studies of propagation dynamics on time-varying networks, the

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majority of these works are still focused on only one type of dynamics in the network. Compared with the single dynamics on single layer, the dynamics on multiplex time-varying networks is more complex,, especially for the coupled dynamics.

**Coupled propagation dynamics on multiplex activity-driven ...**

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uncorrelated double-layer networks Two key quantities in the dynamics of spreading are the outbreak threshold and the fraction of infected nodes in the final steady state. We develop a theory to predict these quantities for both information and epidemic spreading in the double-layer network.



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## **Asymmetrically interacting spreading dynamics on complex ...**

We examine the efficiency of Recurrent Neural Networks in forecasting the spatiotemporal dynamics of high dimensional and reduced order complex systems using Reservoir Computing (RC) and Backpropagation through time (BPTT) for

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architectures.

**Backpropagation  
algorithms and  
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Network Structure and  
Epidemic Dynamics We  
extend a recent  
description of  
propagation dynamics  
on a highly clustered  
network using  
overlapping community  
structure (18). This  
particular arrangement

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of nodes leads to the aggregation (or clustering) of nodes into well-connected groups, representing for example a person's family or workplace.

## **Complex dynamics of synergistic coinfections on ...**

This dynamics is a type of epidemic model, which is employed to describe the infection processes of nodes in networks. In SI

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dynamics, nodes are initially uninformed and can receive message from neighbors along with the propagation of message. Once a node receive message, it remains informed forever.

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