

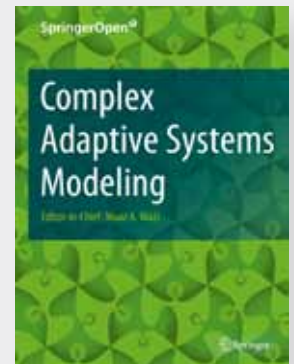


# Complex Adaptive Systems Modeling

Thematic Series title:

Interdependent Networks: Structure, Dynamics and Evolution

Not only are our interactions limited and thus best described not by well-mixed models but rather by models entailing networks, it is also a fact that these networks are often interconnected and indeed very much interdependent. From the World economy to Google Circles, it is clear that processes taking place in one network might affect what is happening in many other networks. Within an interdependent system, each type of interaction has certain relevance or meaning, so that treating all the links identically inevitably leads to information loss. Interdependent or multiplex networks are therefore a much better description of such systems, and this Thematic Series is devoted to their structure, dynamics and evolution, as well as to the study of emergent properties in multi-layered systems in general. Topics of interest include but are not limited to the spread of epidemics and information, synchronization, diffusion, random walks, collective behavior and evolutionary games on interdependent networks.



## Potential topics

- Structure and function of interdependent networks
- Evolutionary games on interdependent networks
- Phase transitions and critical phenomena on interdependent networks
- Random walks on interdependent networks
- Diffusion on interdependent networks
- Epidemics on interdependent networks
- Spread of information on interdependent networks
- Synchronization on interdependent networks
- Chaos and nonlinear dynamics on interdependent networks
- Collective behavior on interdependent networks
- Agent-based models on interdependent networks

Call for  
Papers

# Submission Instructions:

Before submission, authors should carefully read over the Instructions for Authors, which are located at [www.casmodeling.com/authors/instructions](http://www.casmodeling.com/authors/instructions). Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at [www.casmodeling.com/manuscript](http://www.casmodeling.com/manuscript) according to the submission schedule. They should choose the correct Thematic Series in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Complex Adaptive Systems Modeling: Interdependent networks: structure, dynamics and evolution” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Thematic Series and prospects for successfully negotiating the review process.

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**Submission Schedule**  
**Manuscripts due:**  
**June 30, 2014**