Special Issue

Modeling and Control of Epidemic Spreading in Complex Societies

Message from the Guest Editors

Modeling and predicting epidemic spreading in human societies is a challenge connecting epidemiology and sociology. The complexity arises in many forms: individuals are known to interact in a complex network of connections; the flux and the nature of the information among the individuals affect their attitude towards prophylactic and/or non-farmaceutical measures, etc. In addition, complexity also emerges from the individuals' response to the environment, which can be based on their risk perception, optimistic bias, social condition or even political persuasion. On the other hand, nowadays, several technological advances, such as contact-tracing apps and GPS, can help to identify and follow epidemics' spatial and temporal evolutions. This can lead to better parameter fitting and to optimize control strategies. Therefore, considering the recent advances in the fields of epidemic modeling and sociophysics, this Special Issue aims to collect new methods, models, and data-driven studies that contribute to a better understanding of the epidemic spreading in human societies.

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