

# Special Issue

## Advances in Complex Systems and Evolutionary Game Theory

### Message from the Guest Editors

With the rapid development of network science, complex networks have become an important method and tool to describe the interactions among individuals within complex systems. Many complex systems in nature and society could be considered as networks composed of interacting units and analyzed by statistical physics methods. Also, the mechanisms of the spontaneous emergence and maintenance of cooperative behavior among selfish individuals have attracted continuous attention over the past several decades, among which evolutionary game theory provides a powerful theoretical framework to address them. The Special Issue is looking for original papers with novel research contributions in all aspects of the dynamical analysis of complex systems and evolutionary game dynamics. Topics include, but are not limited to:

- Complex network modeling;
- Complex system modeling;
- Network science;
- Dynamical analysis of complex networks;
- Evolutionary game dynamics: theory, modeling and application;
- Evolution of cooperation: experimental evidence;
- Mechanisms triggering cooperative evolution in social dilemmas;
- The application of complex system theory to multidisciplinary fields.

### Guest Editors

Prof. Dr. Chengyi Xia

School of Control Science and Engineering, Tiangong University, Tianjin 300387, China

Dr. Changwei Huang

School of Computer, Electronics and Information, Guangxi University, Nanning 530004, China

### Deadline for manuscript submissions

closed (15 November 2023)



## Mathematics

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto:mathematics@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,  
The Gateway, Leicester LE1 9BH, UK

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