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Mathematical Modeling and Optimization for Complex Systems of Economic and Financial Supply Chains

Guest Editors:

Message from the Guest Editors

Prof. Dr. Junhai Ma

Prof. Dr. Zengqiang Chen

Prof. Dr. Ruguo Fan

Dr. Fang Wu

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Deadline for manuscript submissions: closed (31 December 2023) This Special Issue concentrates on the inherent complexity and evolution trends of the economy and supply chain systems in the context of carbon emission reduction in the post-pandemic era. Discrete dynamics theory and evolutionary game theory have certain applicability and advantages in studying problems such as long-term optimal decisions, local and global stability, and bifurcation analysis in discrete-time models. Toward this end, we invite scholars who have contributed to this area to share their latest research results related to the topics below:

- Analysis of discrete dynamic systems and their complexity in social management systems;
- Research on complex systems of economy and finance and their evolution analysis;
- Analysis and explanation of long-term game strategy with chaos theory and bifurcation theory;
- Study of optimal decisions in dynamic games among supply chain members;
- Lyapunov stability analysis of supply chain systems;
- Research on the local and global dynamics about the equilibrium point;
- Local and global bifurcation analysis of discretetime supply-chain models;
- Chaos and bifurcation control strategies under multi-factor disruptions.





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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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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