Special Issue

Modeling and Simulation Applied to Prediction of Financial and Sustainability Risk Assessment

Message from the Guest Editors

This Special Issue in Systems invites submissions of articles that explore advanced approaches to modelling and simulation applied to the prediction, stability and governance of financial networks. The focus is on developing robust prediction models that can anticipate systemic risk, financial contagion and fragility in network stability. These models support decision-making processes in rapidly evolving financial environments and help us to commit to a demanding planet.

Contributions that combine system dynamics, agent-based modelling, network analysis and graph theory with artificial intelligence, machine learning, deep learning and reinforcement learning are particularly encouraged. Data-driven approaches, including big data analytics, time series forecasting, Monte Carlo simulation, stress testing, early warning systems and digital twins applied to cyber-physical finance, are especially valued.

The Special Issue welcomes theoretical, methodological, and empirical work in the areas of computational finance, fintech innovation, and economic forecasting, with a focus on financial resilience, explainable AI, and governance.

Guest Editors

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Dr. João Paulo Torre Vieito

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Message from the Editor-in-Chief

Systems is a leading venue for the quick and global dissemination of results of cutting-edge research in various areas of systems science and systems-related fields. An increasing number of researchers are realizing the enormous potential of systems thinking in managing the many unprecedented and complex issues in all areas of need. The *Systems* journal provides a home of exceptional quality for the manuscripts of these researchers who often find it difficult to publish their work in conventional discipline focused journals.

Editor-in-Chief

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