Special Issue

Dynamic Game Theory in Sustainability

Message from the Guest Editors

This Special Issue invites contributions that encourage application and advancement of the dynamic game theory in order to address complex sustainability challenges. Potential topics include, but are not limited to:

- Differential games for environmental regulation and resource management;
- Dynamic games in climate policy design and carbon market strategies;
- Green supply chain competition and cooperation models;
- Evolutionary and stochastic game models in biodiversity and conservation economics;
- Asymmetric information and signaling in greenwashing or brown washing;
- Optimal control and HJB solutions in sustainability contexts;
- Sustainability games with random shocks, tipping points, or regime-switching;
- Public–private partnerships and incentive design for sustainability;
- Collusion and competition under environmental constraints;
- Computational and numerical methods for solving sustainability-focused dynamic games;
- Applications in energy transitions, water management, waste minimization, and ESG strategy;
- Transboundary pollution control games;
- Dynamic cooperation in international environmental agreements.

Guest Editors

Dr. Subhadip Ghosh

Department of Decision Sciences, School of Business, MacEwan University, Edmonton, AB T5J 4S2, Canada

Dr. Arka Mukherjee

Department of Decision Sciences, School of Business, MacEwan University, Edmonton, AB T5J 4S2, Canada

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Games
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
games@mdpi.com

mdpi.com/journal/games

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Message from the Editor-in-Chief

Editors-in-Chief

Prof. Dr. Ulrich Berger
WU Vienna, Department of Economics, Welthandelsplatz 1, 1020 Wien, Austria

Prof. Dr. Kjell Hausken
Faculty of Science and Technology, University of Stavanger, 4036 Stavanger, Norway

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