October 29, 2025

Editor-in-Chief
Computational Economics
Springer

Dear Editor-in-Chief,

I am pleased to submit my manuscript entitled **"Trading-Aware Agents in Sugarscape: A Deep Reinforcement Learning Approach to Adaptive Economic Behavior"** for consideration in *Computational Economics*.

This paper extends the classical Sugarscape framework by integrating Deep Reinforcement Learning (DRL) to model adaptive trading and movement in agent-based economies. The study demonstrates that DRL agents improve carrying capacity, price convergence, and wealth equality compared with rule-based societies, providing a learning-based microfoundation for modern market behavior. The approach contributes directly to the journal's scope on computational modeling, adaptive systems, and simulation-based policy analysis.

I am a doctoral researcher in economics at the University of Vaasa, Finland. This paper forms part of my dissertation research on AI-driven economic simulation and policy modeling. All code and data supporting this study are openly available at Zenodo (DOI: 10.5281/zenodo.17466369) to ensure full reproducibility.

This work is original, has not been published previously, and is not under consideration elsewhere. I declare that there are no conflicts of interest related to this submission.

Thank you very much for considering this manuscript. I look forward to the opportunity to contribute to *Computational Economics*.

Sincerely,

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