MAS08

DYNAMICS OF FOOD INSECURITY: A STUDY OF FOOD AVAILABILITY, ACCESSIBILITY, AND SUSTAINABILITY

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Abstract

This paper investigates food insecurity through the lens of system dynamics, utilizing causal loop diagrams (CLD) to model the interconnected factors of food availability, accessibility, and sustainability. We highlight how elements such as economic prosperity, agricultural practices, and transportation systems interact, revealing feedback mechanisms that can either exacerbate or mitigate food insecurity. The CLD framework underscores the importance of a holistic approach incorporating economic, environmental, and social dimensions.

Conference Track

Modeling and Simulation