

## Indian Food Supply Chains: a Game and Model to Study Economic Behavior

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### Abstract

Food supply chains are vital for the societal welfare in India. Given the tremendous issues on food safety and security, more insight in the function of Indian food markets is needed. This paper introduces the multi-agent model on which the Mango Mandi Gaming Simulation is build. The model holds the major roles present in the Indian mango markets, and is in both it structure and processes built upon case studies of these markets. The interaction with human players, who can take over a role in the simulation model, is specified. Applications are identified, and a road map for validation is laid out.

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