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Artificial Markets Modeling

Methods and Applications

Agent-based computational modeling with its intrinsic multidisciplinary approach is gaining increasing recognition in the social sciences, particularly in economics, business and finance. The methodology is now widely used to compute analytical models numerically and test them for departures from theoretical assumptions, and to provide stand-alone simulation models for problems that are analytically intractable.This volume is devoted to recent contributions to the field from both the social sciences and computer sciences. It presents applications of agent-based computational methodologies and tools in the social sciences, focusing strongly on the uses, requirements and constraints of agent-based models employed by social scientists. Topics include agent-based macroeconomics, the emergence of norms and conventions, the dynamics of social and economic networks, and behavioral models in financial markets.

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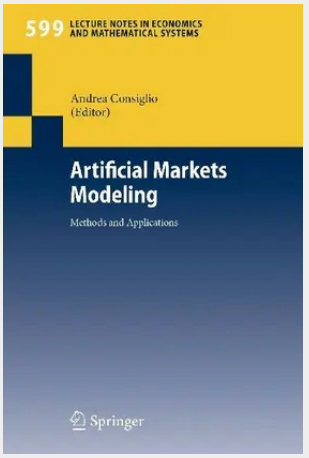

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