

SPRINGER BRIEFS IN COMPLEXITY

Alexander Tarvid

Agent-Based Modelling of Social Networks in Labour–Education Market System

 Springer

Agent Based Modelling Labour Education Springerbriefs Complexity

Carlos M. Lemos



Agent Based Modelling Labour Education Springerbriefs Complexity:

Agent-Based Modelling of Social Networks in Labour-Education Market System Alexander Tarvid,2015-11-27

This book covers the modelling of human behaviour in the education and labour markets which due to their interdependency are viewed as one system Important factors influencing the decision making of individuals and firms in this system are discussed The role of social environment and networks is stressed The approach of agent based modelling is presented and compared with standard economic modelling and other simulation techniques in the context of modelling complex adaptive systems Practical questions in building agent based models of labour education market system with social networks are discussed These questions include modelling the structure of education system and agent behaviour there modelling and calibrating the labour market without and with firms generating the social network defining its behaviour and calibrating it and embedding the resulting system into a larger model

Agent-Based Modelling of Socio-Technical Systems Koen H. van Dam,Igor Nikolic,Zofia Lukszo,2012-10-08 Decision makers in large scale interconnected network systems require simulation models for decision support The behaviour of these systems is determined by many actors situated in a dynamic multi actor multi objective and multi level environment How can such systems be modelled and how can the socio technical complexity be captured Agent based modelling is a proven approach to handle this challenge This book provides a practical introduction to agent based modelling of socio technical systems based on a methodology that has been developed at TU Delft and which has been deployed in a large number of case studies The book consists of two parts the first presents the background theory and methodology as well as practical guidelines and procedures for building models In the second part this theory is applied to a number of case studies where for each model the development steps are presented extensively preparing the reader for creating own models

Agent-Based Approaches in Economics and Social Complex Systems IX Utomo Sarjono Putro,Manabu Ichikawa,Manahan Siallagan,2017-05-02 This book includes many cases that provide new perspectives in developing agent based modeling and simulation The real problems are complex and sophisticated methodology is needed to handle them Agent based modeling and simulation is one methodology that provides a bottom up experimental approach applicable to social sciences such as economics management sociology and politics as well as some engineering fields dealing with social activities However to improve the applicability of agent based modeling and simulation methods a new perspective is needed In this book that new perspective is developed and utilized to deal with many cases of real world problems such as the supply chain land use and land cover transportation health services economics and social problems The cases are selected from papers presented at the Ninth International Workshop on Agent Based Approaches in Economic and Social Complex Systems held in Bali Indonesia in 2015 At the workshop 29 reviewed full papers were presented and of those 16 were selected to be included in this volume

Agent-Based Modeling of Social Conflict Carlos M. Lemos,2017-10-24 This Brief revisits and extends Epstein s classical agent based model of civil violence by considering

important mechanisms suggested by social conflict theories Among them are relative deprivation as generator of hardship generalized vanishing of the risk perception massive fear loss when the uprisings surpass a certain threshold endogenous legitimacy feedback and network influence effects represented by the mechanism of dispositional contagion The model is explored in a set of computer experiments designed to provide insight on how mechanisms lead to increased complexity of the solutions The results of the simulations are compared with statistical analyses of estimated size duration and recurrence of large demonstrations and riots for eight African countries affected by the Arab Spring based on the Social Conflict Analysis Database It is shown that the extensions to Epstein s model proposed herein lead to increased generative capacity of the agent based model i e a richer set of meaningful qualitative behaviors as well the identification of key mechanisms and associated parameters with tipping points The use of quantitative information international indicators and statistical analyses of conflict events allows the assessment of the plausibility of input parameter values and simulated results and thus a better understanding of the model s strengths and limitations The contributions of the present work for understanding how mechanisms of large scale conflict lead to complex behavior include a new form of the estimated arrest probability a simple representation of political vs economic deprivation with a parameter which controls the sensitivity to value endogenous legitimacy feedback and the effect of network influences due to small groups and activists In addition the analysis of the Social Conflict Analysis Database provided a quantitative description of the impact of the Arab Spring in several countries focused on complexity issues such as peaceful vs violent spontaneous vs organized and patterns of size duration and recurrence of conflict events in this recent and important large scale conflict process This book will appeal to students and researchers working in these computational social science subfields *Agent-Based Modelling* Giacomo Gallegati, Mauro Gallegati, Simone Landini, 2024-12-31 This Element works as non technical overview of Agent Based Modelling ABM a methodology which can be applied to economics as well as fields of natural and social sciences This Element presents the introductory notions and historical background of ABM as well as a general overview of the tools and characteristics of this kind of models with particular focus on more advanced topics like validation and sensitivity analysis Agent based simulations are an increasingly popular methodology which fits well with the purpose of studying problems of computational complexity in systems populated by heterogeneous interacting agents **Agent-Based Approaches in Economic and Social Complex Systems VII** Tadahiko Murata, Takao Terano, Shingo Takahashi, 2013-05-14 Agent based modeling simulation is an emergent approach to the analysis of social and economic systems It provides a bottom up experimental method to be applied to social sciences such as economics management sociology and politics as well as some engineering fields dealing with social activities This book includes selected papers presented at the Seventh International Workshop on Agent Based Approaches in Economic and Social Complex Systems held in Osaka Japan in 2012 At the workshop 24 reviewed full papers were presented and of those 17 were selected to be included in this volume The papers are divided into two groups as

Fundamentals of Agent Based Modeling and Applications of Agent Based Modeling *Agent-Based Modelling of Worker Exploitation* Thomas Chesney, 2021 This book illustrates the potential for computer simulation in the study of modern slavery and worker abuse and by extension in all social issues It lays out a philosophy of how agent based modelling can be used in the social sciences In addressing modern slavery Chesney considers precarious work that is vulnerable to abuse like sweat shop labour and prostitution and shows how agent modelling can be used to study understand and fight abuse in these areas He explores the philosophy application and practice of agent modelling through the popular and free software NetLogo This topical book is grounded in the technology needed to address the messy chaotic real world problems that humanity faces in this case the serious problem of abuse at work but equally in the social sciences which are needed to avoid the unintended consequences inherent to human responses It includes a short but extensive NetLogo guide which readers can use to quickly learn this software and go on to develop complex models This is an important book for students and researchers of computational social science and others interested in agent based modelling **Agent-Based Modeling of Sustainable Behaviors** Amparo Alonso-Betanzos, Noelia Sánchez-Marroño, Oscar Fontenla-Romero, J. Gary Polhill, Tony Craig, Javier Bajo, Juan Manuel Corchado, 2017-01-06 Using the O D D Overview Design concepts Detail protocol this title explores the role of agent based modeling in predicting the feasibility of various approaches to sustainability The chapters incorporated in this volume consist of real case studies to illustrate the utility of agent based modeling and complexity theory in discovering a path to more efficient and sustainable lifestyles The topics covered within include households attitudes toward recycling designing decision trees for representing sustainable behaviors negotiation based parking allocation auction based traffic signal control and others This selection of papers will be of interest to social scientists who wish to learn more about agent based modeling as well as experts in the field of agent based modeling **Agent-Based Approaches in Economic and Social Complex Systems VIII** Yutaka Nakai, Yuhsuke Koyama, Takao Terano, 2015-06-05 Agent based modeling simulation is an emergent approach to the analysis of social and economic systems It provides a bottom up experimental method to be applied to social sciences such as economics management sociology and politics as well as some engineering fields dealing with social activities This book includes selected papers presented at the Eighth International Workshop on Agent Based Approaches in Economic and Social Complex Systems held in Tokyo Japan in 2013 At the workshop 23 reviewed full papers were presented and of those 13 were selected to be included in this volume **Agent-Based Approaches in Economic and Social Complex Systems IV** T. Terano, H. Kita, H. Deguchi, K. Kijima, 2007-12-27 Agent Based Modeling Simulation ABM ABS is an emerging field that enables bottom up and experimental analysis in social sciences such as economics management sociology and politics The chapters of this book are the selected papers from those presented the Third International Workshop on Agent Based Approaches in Economic and Social Complex Systems held in Tokyo Japan in 2005 Articles in this book covers methodological issues computational model software combination with gaming simulation and real world

applications to economic management organizational and social issues

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