Alison J. Heppenstall Andrew T. Crooks Linda M. See - Michael Batty *Editors* 

Agent-Based Models of Geographical Systems



# **Agent Based Models Of Geographical Systems**

John R. Lombard, Eliahu Stern, Graham Clarke

# **Agent Based Models Of Geographical Systems:**

Agent-Based Models of Geographical Systems Alison J. Heppenstall, Andrew T. Crooks, Linda M. See, Michael Batty, 2011-11-24 This unique book brings together a comprehensive set of papers on the background theory technical issues and applications of agent based modelling ABM within geographical systems This collection of papers is an invaluable reference point for the experienced agent based modeller as well those new to the area Specific geographical issues such as handling scale and space are dealt with as well as practical advice from leading experts about designing and creating ABMs handling complexity visualising and validating model outputs With contributions from many of the world's leading research institutions the latest applied research micro and macro applications from around the globe exemplify what can be achieved in geographical context This book is relevant to researchers postgraduate and advanced undergraduate students and professionals in the areas of quantitative geography spatial analysis spatial modelling social simulation modelling and geographical information sciences **Agent-Based Modelling and Geographical Information Systems** Andrew Crooks, Nicolas Malleson, Ed Manley, Alison Heppenstall, 2018-12-13 This is the era of Big Data and computational social science It is an era that requires tools which can do more than visualise data but also model the complex relation between data and human action and interaction Agent Based Models ABM computational models which simulate human action and interaction do just that This textbook explains how to design and build ABM and how to link the models to Geographical Information Systems It guides you from the basics through to constructing more complex models which work with data and human behaviour in a spatial context All of the fundamental concepts are explained and related to practical examples to facilitate learning with models developed in NetLogo with all code examples available on the accompanying website You will be able to use these models to develop your own applications and link where appropriate to Geographical Information Systems All of the key ideas and methods are explained in detail geographical modelling an introduction to ABM the fundamentals of Geographical Information Science why ABM and GIS using QGIS designing and building an ABM calibration and validation modelling human behavior An applied primer that provides fundamental knowledge and practical skills it will provide you with the skills to build and run your own models and to begin your own research projects **Agent-based** Modeling and Simulation in Archaeology Gabriel Wurzer, Kerstin Kowarik, Hans Reschreiter, 2014-11-08 Archaeology has been historically reluctant to embrace the subject of agent based simulation since it was seen as being used to re enact and visualize possible scenarios for a wider generally non scientific audience based on scarce and fuzzy data Furthermore modeling in exact terms and programming as a means for producing agent based simulations were simply beyond the field of the social sciences This situation has changed quite drastically with the advent of the internet age Data it seems is now ubiquitous Researchers have switched from simply collecting data to filtering selecting and deriving insights in a cybernetic manner Agent based simulation is one of the tools used to glean information from highly complex excavation sites according

to formalized models capturing essential properties in a highly abstract and yet spatial manner As such the goal of this book is to present an overview of techniques used and work conducted in that field drawing on the experience of practitioners

GeoComputation Robert J. Abrahart, Linda M. See, 2014-06-23 A revision of Openshaw and Abrahart's seminal work GeoComputation Second Edition retains influences of its originators while also providing updated state of the art information on changes in the computational environment In keeping with the field's development this new edition takes a broader view and provides comprehensive coverage across the GeoComputation, Second Edition Robert J. Abrahart, Linda M. See, 2014-06-23 A revision of Openshaw and Abrahart's seminal work GeoComputation Second Edition retains influences of its originators while also providing updated state of the art information on changes in the computational environment In keeping with the field's development this new edition takes a broader view and provides comprehensive coverage across the field of GeoComputation See What s New in the Second Edition Coverage of ubiquitous computing the GeoWeb reproducible research open access and agent based modelling Expanded chapter on Genetic Programming and a separate chapter developed on Evolutionary Algorithms Ten chapters updated by the same or new authors and eight new chapters added to reflect state of the art Each chapter is a stand alone entity that covers a particular topic You can simply dip in and out or read it from cover to cover The opening chapter by Stan Openshaw has been preserved with only a limited number of minor essential modifications having been enacted This is not just a matter of respect Openshaw's work is eloquent prophetic and his overall message remains largely unchanged In contrast to other books on this subject GeoComputation Second Edition supplies a state of the art review of all major areas in GeoComputation with chapters written especially for this book by invited specialists. This approach helps develop and expand a computational culture one that can exploit the ever increasing richness of modern geographical and geospatial datasets It also supplies an instructional guide to be kept within easy reach for regular access and when need arises Advances in Social Simulation Harko Verhagen, Melania Borit, Giangiacomo Bravo, Nanda Wijermans, 2020-04-30 This book presents the state of the art in social simulation as presented at the Social Simulation Conference 2018 in Stockholm Sweden It covers the developments in applications and methods of social simulation addressing societal issues such as socio ecological systems and policy making Methodological issues discussed include large scale empirical calibration model sharing and interdisciplinary research as well as decision making models validation and the use of qualitative data in simulation modeling Research areas covered include archaeology cognitive science economics organization science and social simulation education This collection gives readers insight into the increasing use of social simulation in both its theoretical development and in practical applications such as policy making whereby modelling and the behavior of complex systems is key The book will appeal to students researchers and professionals in the various fields Technologies for Urban and Spatial Planning: Virtual Cities and Territories Pinto, Nuno Norte, 2013-07-31 This book covers a multitude of newly developed hardware and software technology advancements in

urban and spatial planning and architecture drawing on the most current research and studies of field practitioners who offer solutions and recommendations for further growth specifically in urban and spatial developments International Encyclopedia of Geography, 15 Volume Set Noel Castree, Michael F. Goodchild, Audrey Kobayashi, Weidong Liu, Richard A. Marston, 2017-03-20 Zweifelsohne das Referenzwerk zu diesem weitgef cherten und dynamischen Fachgebiet The International Encyclopedia of Geograph ist das Ergebnis einer einmaligen Zusammenarbeit zwischen Wiley und der American Association of Geographers AAG beleuchtet und definiert Konzepte Forschung und Techniken in der Geographie und zugeh rigen Fachgebieten Die Enzyklop die ist als Online Ausgabe und 15 b ndige farbige Printversion erh ltlich Unter der Mitarbeit einer Gruppe von Experten aus aller Welt ist ein umfassender und fundierter berblick ber die Geographie in allen Erdteilen entstanden Enth lt mehr als 1 000 Eintr ge zwischen 1 000 und 10 000 W rtern die verst ndlich in grundlegende Konzepte einf hren komplexe Themen erl utern und Informationen zu geographischen Gesellschaften aus aller Welt enthalten Entstanden unter der Mitarbeit von mehr als 900 Wissenschaftlern aus ber 40 L ndern und bietet damit einen umfassenden und fundierten berblick ber die Geographie in allen Erdteilen Deckt das Fachgebiet umfassend ab und ber cksichtigt auch die Richtungen Humangeographie Physikalische Geographie geographische Informationswissenschaften und systeme Erdwissenschaften und Umweltwissenschaften F hrt interdisziplin re Sichtweisen zu geographischen Themen und Verfahren zusammen die auch fr die Sozialwissenschaften Geisteswissenschaften Naturwissenschaften und Medizin von Interesse sind Printausgabe durchg ngig in Farbe mit ber 1 000 Illustrationen und Fotos Online Ausgabe wird j hrlich Autonomous Agents and Multiagent Systems Gita Sukthankar, Juan A. Rodriguez-Aguilar, 2017-11-24 This aktualisiert book compiles the most visionary papers from 10 workshops held at the International Conference on Autonomous Agents and Multiagent Systems AAMAS 2017 held in Sao Paulo Brazil in May 2017 The 15 full papers presented in this volume were carefully reviewed and selected for inclusion in this volume They deal with novel ideas proposing a change in the way Agent-Based Modelling and Geographical Information Systems Andrew Crooks, Nick research is currently carried out Malleson, Nicolas Malleson, Ed Manley, Alison Heppenstall, 2018-12-13 This textbook explains how to design and build Agent Based Models and how to link them to Geographical Information Systems 
Uncertainty and Sensitivity Analysis in Archaeological Computational Modeling Marieka Brouwer Burg, Hans Peeters, William A. Lovis, 2016-05-18 This volume deals with the pressing issue of uncertainty in archaeological modeling Detecting where and when uncertainty is introduced to the modeling process is critical as are strategies for minimizing reconciling or accommodating such uncertainty Included chapters provide unique perspectives on uncertainty in archaeological modeling ranging in both theoretical and methodological orientation The strengths and weaknesses of various identification and mitigation techniques are discussed in particular sensitivity analysis The chapters demonstrate that for archaeological modeling purposes there is no quick fix for uncertainty indeed each archaeological model requires intensive consideration of uncertainty and specific applications for

calibration and validation As very few such techniques have been problematized in a systematic manner or published in the archaeological literature this volume aims to provide guidance and direction to other modelers in the field by distilling some basic principles for model testing derived from insight gathered in the case studies presented Additionally model applications and their attendant uncertainties are presented from distinct spatio temporal contexts and will appeal to a broad range of archaeological modelers. This volume will also be of interest to non modeling archaeologists as consideration of uncertainty when interpreting the archaeological record is also a vital concern for the development of non formal or implicit models of human behavior in the past Applied Spatial Modelling and Planning John R. Lombard, Eliahu Stern, Graham Clarke, 2016-10-04 This book highlights the extraordinary range of areas to which geographical analysis and spatial modelling can bring lessons and insights It shows how these techniques have been used to address real world issues that are of concern to international organisations public agencies and businesses as illustrated by actual funded projects that geographers have developed collaboratively with end users Applied Spatial Modelling and Planning shows how much geographical research is policy relevant to a wide variety of agencies through the use of GIS and spatial modelling in applied geography The book s chapters contain a cross section of innovative applications and approaches to problem solving within five major domains of the dynamics of economic space housing and settlements population movements and population ageing health care and the environment Using a number of case studies on the use of GIS and spatial modelling this book demonstrates the fact that much of what is done by quantitative geographers is not only relevant within academia but also has use in policy work This book will appeal to an international audience interested in cutting edge spatial modelling to better understand the processes involved in solving real problems The Routledge Companion to the Future of Marketing Luiz Moutinho, Enrique Bigné, Ajay K. Manrai, 2014-01-10 The Routledge Companion to the Future of Marketing provides the reader with a comprehensive and original set of visionary insights into the future of marketing This prestigious collection aims to challenge the mindset of academics moving their thinking processes from current thinking into new perspectives and advances in marketing knowledge Selected Contents Part 1 New Paradigms and Philosophical Insights Part 2 Contributions from other Scientific Fields Part 3 Reconnecting with Consumers and Markets Part 4 New Methodological Insights in Scholarly Research in the Field Complexity and Geographical Economics Pasquale Commendatore, Saime Kayam, Ingrid Kubin, 2015-02-17 The uneven geographical distribution of economic activities is a huge challenge worldwide and also for the European Union In Krugman's New Economic Geography economic systems have a simple spatial structure This book shows that more sophisticated models should visualise the EU as an evolving trade network with a specific topology and different aggregation levels At the highest level economic geography models give a bird eye s view of spatial dynamics At a medium level institutions shape the economy and the structure of financial and labour markets At the lowest level individual decisions interact with the economic social and institutional environment the focus is on firms decision on

location and innovation Such multilevel models exhibit complex dynamic patterns path dependence cumulative causation hysteresis on a network structure and specific analytic tools are necessary for studying strategic interaction heterogeneity Sustainable Territorial Management David Rodr'ıguez-Rodr'ıguez, Javier and nonlinearities Mart'inez-Vega, 2018-09-21 This book is a printed edition of the Special Issue Sustainable Territorial Management that was GeoComputational Analysis and Modeling of Regional Systems Jean-Claude Thill, Suzana published in Environments Dragicevic, 2017-07-28 The contributed volume collects cutting edge research in GeoComputational Analysis of Regional Systems The contributions emphasize methodological innovations or substantive breakthroughs on many facets of the socio economic and environmental reality of regional contexts Handbook of Spatial Analysis in the Social Sciences Sergio J. Rev, Rachel S. Franklin, 2022-11-18 Providing an authoritative assessment of the current landscape of spatial analysis in the social sciences this cutting edge Handbook covers the full range of standard and emerging methods across the social science domain areas in which these methods are typically applied Accessible and comprehensive it expertly answers the key questions regarding the dynamic intersection of spatial analysis and the social sciences Spatial Big Data, BIM and advanced GIS for Smart Transformation Sara Shirowzhan, Willie Tan, Samad M. E. Sepasgozar, 2020-12-02 This book covers a range of topics including selective technologies and algorithms that can potentially contribute to developing an intelligent environment and smarter cities While the connectivity and efficiency of smart cities is important the analysis of the impact of construction development and large projects in the city is crucial to decision and policy makers before the project is approved This book also presents an agenda for future investigations to address the need for advanced tools such as mobile scanners Geospatial Artificial Intelligence Unmanned Aerial Vehicles Geospatial Augmented Reality apps Light Detection and Ranging in smart cities Some of selected specific tools presented in this book are as a simulator for improving the smart parking practices by modelling drivers with activity plans a bike optimization algorithm to increase the efficiency of bike stations an agent based model simulation of human mobility with the use of mobile phone datasets In addition this book describes the use of numerical methods to match the network demand and supply of bicycles investigate the distribution of railways using different indicators presents a novel algorithm of direction aware continuous moving K nearest neighbor queries in road networks and presents an efficient staged evacuation planning algorithm for multi exit buildings GIS - An Overview of Applications Ana Cláudia Teodoro, 2018-04-02 GIS An Overview of Applications is a compilation of reviews that give an overview of the latest advances in Geographic Information System GIS technology The multidisciplinary nature of the book gives readers perspectives in research fields as diverse as forest management land use and cover tourism environment impact assessment climate change studies biodiversity and health care and mobility studies The book is a suitable reference for graduates involved in data engineering and GIS courses as well as working professionals in the field of data engineering analysis and management Planning Support Systems and Smart Cities Stan Geertman, Joseph Ferreira, Jr., Robert

Goodspeed, John Stillwell, 2015-05-22 This book is a selection of the best and peer reviewed articles presented at the CUPUM Computers in Urban Planning and Urban Management conference held in the second week of July 2015 at MIT in Boston USA The contributions provide state of the art overview of the availability and application of Planning Support Systems PSS in the framework of Smart Cities

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