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Modelling Land-Use Change

Progress and Applications



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Modelling Land-Use Change Eric Koomen, John Stillwell, Aldrik Bakema, Henk J. Scholten, 2007-08-08 Models of land use change incorporate a vast amount of knowledge from a wide range of disciplines Geography contributes to the understanding of land use change whilst demography and economics help explain underlying trends This book offers a cross sectional overview of current research progress that allows the construction of successful land use models The contributions range from methodology and calibration to actual applications in studies of recent policy implementation and evaluation The contributors originate from academic and applied research institutes around the world and thus offer an interesting mix of theory and practice in different case study contexts In summary land use change simulation modelling is a relatively new and dynamic field of study and this book provides a full overview of the topic a wide range of applications both geographically and thematically a mix of theory and practice a synthesis of recent research progress and educational material for students and teachers

Modeling of Land-Use and Ecological Dynamics Dan Malkinson, Danny Czamanski, Itzhak Benenson, 2013-12-09 As cities are rapidly expanding and encroaching into agricultural and natural areas a question of primary concern is how this expansion affects surrounding agriculture and natural landscapes This book presents a wide spectrum of both theoretical and empirical approaches to simulation and assessment of landscape dynamics The first part presents state of the art modelling approaches pertaining to land use changes entailed by the urban sprawl at different spatial resolutions and temporal time scales The second part is dedicated to case studies of the effects and consequences of the emerging urban agriculture open space patterns

Global Mapping of Human Settlement Paolo Gamba, Martin Herold, 2009-06-23 The use of remote sensors for human settlement mapping and monitoring holds great promise for numerous fields of study including urban planning and global environmental change and sustainability While the potential for this technology is difficult to measure achieving useful results at a regional or global level is but a recent accomplishment G

Modelling Future Residential Development Jana Hoymann, 2011 *Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design* Abusaada, Hisham, Vellguth, Carsten, Elshater, Abeer, 2019-06-28 The efficient usage investigation and promotion of new methods tools and technologies within the field of architecture particularly in urban planning and design is becoming more critical as innovation holds the key to cities becoming smarter and ultimately more sustainable In response to this need strategies that can potentially yield more realistic results are continually being sought The Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design is a critical reference source that comprehensively covers the concepts and processes of more than 20 new methods in both planning and design in the field of architecture and aims to explain the ways for researchers to apply these methods in their works Pairing innovative approaches alongside traditional research methods the physical dimensions of traditional and new cities are addressed in addition to the non physical aspects and applied models that are

currently under development in new settlements such as sustainable cities smart cities creative cities and intercultural cities Featuring a wide range of topics such as built environment urban morphology and city information modeling this book is essential for researchers academicians professionals technology developers architects engineers and policymakers *Land Use and Land Cover Semantics* Ola Ahlqvist, Dalia Varanka, Steffen Fritz, Krzysztof Janowicz, 2018-10-08 Explore the Important Role that the Semantics of Land Use and Land Cover Plays within a Broader Environmental Context Focused on the information semantics of land use and land cover LULC and providing a platform for reassessing this field Land Use and Land Cover Semantics Principles Best Practices and Prospects presents a comprehensive overview of fundamental theories and best practices for applying semantics in LULC Developed by a team of experts bridging relevant areas related to the subject LULC studies ontology semantic uncertainty information science and earth observation this book encourages effective and critical uses of LULC data and considers practical contexts where LULC semantics can play a vital role The book includes work on conceptual and technological semantic practices including but not limited to categorization the definition of criteria for sets and their members metadata documentation for data reuse ontology logic restrictions reasoning from text sources and explicit semantic specifications ontologies vocabularies and design patterns It also includes use cases from applicable semantics in searches LULC classification spatial analysis and visualization issues of Big Data knowledge infrastructures and their organization and integration of bottom up and top down approaches to collaboration frameworks and interdisciplinary challenges such as EarthCube This book Centers on the link between planning goals objectives and policy and land use classification systems Uses examples of maps and databases to draw attention to the problems of semantic integration of land use cover data Discusses the principles used in a categorization Explores the origins and impacts of semantic variation using the example of land cover Examines how crowd science and human perceptions can be used to improve the quality of land cover datasets and more Land Use and Land Cover Semantics Principles Best Practices and Prospects offers an up to date account of land use land cover semantics looks into aspects of semantic data modeling and discusses current approaches ongoing developments and future trends The book provides guidance to anyone working with land use or land cover data looking to harmonize categories repurpose data or otherwise develop or use LULC datasets

Geospatial Technology and the Role of Location in Science Henk J. Scholten, Rob Velde, Niels van Manen, 2009-07-06 Globalisation has not led to the death of geography Intensified relations between communities in different parts of the world have only highlighted the need for understanding and managing phenomena on a variety of geographic scales From global warming to credit crunch and from epidemics to terrorism causes and solutions are sought on local regional national as well as inter continental levels With the advent of Geospatial Technology scholars policymakers and entrepreneurs have valuable tools in hand to proceed This book offers the first systematic account of the science behind this mental and technological revolution Tracing the adoption and dissemination of Geospatial Technology in a range of disciplines it examines the impact

this technology has had and is likely to have on the explanation of spatial behaviour phenomena and processes At the same time stressing innovative usage it explores scientific contributions to technology advancement

Transport Models in Urban Planning Practices Marco te Brömmelstroet, Luca Bertolini, 2016-04-08 This book explores how transportation models can play a role in a changing transport planning and policy making context Most models are rooted in decades of development work and are geared to offer value free academic and explicit knowledge to transport planning experts However planning practice has changed dramatically over the years resulting in a less technical rational view on the use of such knowledge especially so in early strategy making phases More and more complex policy goals integration of a wide area of other policy domains a wider ever changing and much more mixed group of planning participants and much more focus on wicked problems The book maps how this influences the effectiveness of transport modelling exercises and explores several state of the art implementations This book was published as a special issue of Transport Reviews

Spatial Interaction Models with Land Use Paulo Silveira, Tomaz Ponce Dentinho, 2024-04-25 This book develops spatial interaction models for the analysis of human interaction within space in terms of both accessibility and land use Presenting case studies on the Azores and Morocco it covers applications in various regions of Europe and Africa The respective models simulate land use employment households commuting and shopping movements and land values employment distribution for basic activities changes in accessibility and changes in land suitability due to climate change This book will appeal to scholars and students of regional and spatial science ecological economics and agricultural economics as well as to spatial planners and practitioners dealing with issues of spatial planning to address such problems as unsustainable land use adaptation to climate change desertification of rural areas heavily dependent on land use and the impacts of external shocks on land and property values

Advances and Trends in Engineering Sciences and Technologies II Mohamad Ali, Peter Platko, 2016-11-30 These are the proceedings of the 2nd International Conference on Engineering Sciences and Technologies ESaT 2016 held from 29th of June until the 1st of July 2016 in the scenic High Tatras Mountains Tatransk Matliare Slovak Republic After the successful implementation and excellent feedback of the first international conference ESaT 2015 ESaT 2016 was organized under the auspices of the Faculty of Civil Engineering Technical University of Košice Slovak Republic in collaboration with the University of Miskolc Hungary The conference focused on a wide spectrum of topics and subject areas in civil engineering sciences The proceedings bringing new and original advances and trends in various fields of engineering sciences and technologies that accost a wide range of academics scientists researchers and professionals from universities and practice The authors of the articles originate from different countries around the world guaranteeing the importance topicality quality and level of presented results

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