



SYSTEMS SCIENCE AND MODELING FOR ECOLOGICAL ECONOMICS



ALEXEY VOINOV



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Systems Science and Modeling for Ecological Economics Alexey A. Voinov, 2010-07-27 Modeling is a key component to sciences from mathematics to life science including environmental and ecological studies. By looking at the underlying concepts of the software we can make sure that we build mathematically feasible models and that we get the most out of the data and information that we have. Systems Science and Modeling for Ecological Economics shows how models can be analyzed using simple math and software to generate meaningful qualitative descriptions of system dynamics. This book shows that even without a full analytical mathematically rigorous analysis of the equations there may be ways to derive some qualitative understanding of the general behavior of a system. By relating some of the modeling approaches and systems theory to real world examples the book illustrates how these approaches can help understand concepts such as sustainability, peak oil, adaptive management, optimal harvest and other practical applications. Relates modeling approaches and systems theory to real world examples. Teaches students to build mathematically feasible models and get the most out of the data and information available. Wide range of applications in hydrology, population dynamics, market cycles, sustainability theory, management and more.

Systems Science: Theory, Analysis, Modeling, and Design George E. Mobus, 2022-03-09 This book describes a comprehensive approach to applying systems science formally to the deep analysis of a wide variety of complex systems. Detailed how to examples of the three phases analysis, modeling, design of systems science are applied to systems of various types: machines, organic e.g. ecosystem, and supra-organic e.g. business organizations and government. The complexity of the global system has reached proportions that seriously challenge our abilities to understand the consequences of our use of technology, modification of natural ecosystems or even how to govern ourselves. For this reason, complex mathematics is eschewed when simpler structures will suffice, allowing the widest possible audience to apply and benefit from the available tools and concepts of systems science in their own work. The book shows in detail how to functionally and structurally deconstruct complex systems using a fundamental language of systems. It shows how to capture the discovered details in a structured knowledge base from which abstract models can be derived for simulation. The knowledge base is also shown to be a basis for generating system design specifications for human built artifacts or policy recommendations, policy mechanisms for socio-economic ecological systems management. The book builds on principles and methods found in the authors textbook *Principles of Systems Science* co-authored with Michael Kalton but without prerequisites. It will appeal to a broad audience that deals with complex systems every day from design engineers to economic and ecological systems managers and policymakers.

Agent-Based Modeling of Environmental Conflict and Cooperation Todd BenDor, Jürgen Scheffran, 2018-10-12 Conflict is a major facet of many environmental challenges of our time. However, growing conflict complexity makes it more difficult to identify win-win strategies for sustainable conflict resolution. Innovative methods are needed to help predict, understand, and resolve conflicts in cooperative ways. Agent-Based

Modeling of Environmental Conflict and Cooperation examines computer modeling techniques as an important set of tools for assessing environmental and resource based conflicts and ultimately for finding pathways to conflict resolution and cooperation. This book has two major goals. First it argues that complexity science can be a unifying framework for professions engaged in conflict studies and resolution including anthropology, law, management, peace studies, urban planning and geography. Second this book presents an innovative framework for approaching conflicts as complex adaptive systems by using many forms of environmental analysis including system dynamics modeling, agent based modeling, evolutionary game theory, viability theory and network analysis. Known as VIABLE Values and Investments from Agent Based interaction and Learning in Environmental systems this framework allows users to model advanced facets of conflicts including institution building, coalition formation, adaptive learning and the potential for future conflict and conflict resolution based on the long term viability of the actors' strategies. Written for scholars, students, practitioners and policy makers alike this book offers readers an extensive introduction to environmental conflict research and resolution techniques. As the result of decades of research the text presents a strong argument for conflict modeling and reviews the most popular and advanced techniques including system dynamics modeling, agent based modeling and participatory modeling methods. This indispensable guide uses NetLogo a widely used and free modeling software package to implement the VIABLE modeling approach in three case study applications around the world. Readers are invited to explore, adapt, modify and expand these models to conflicts they hope to better understand and resolve.

Ecological Economics Reviews, Volume 1186 Karin E. Limburg, Robert Costanza, 2010-03-08. This is the inaugural volume in a series of reviews on the theory, policy and implementation of sustainability and sustainable development with a focus on the economic, social and environmental challenges facing the world today. This volume includes papers by leading international experts in the science of sustainability including Rudolf de Groot, Richard Cowling, Bruce Hannon, R. Kerry Turner, Peter Nijkamp, Peter S. derbaum, Barry D. Solomon and Pushpam Kumar. NOTE: Annals volumes are available for sale as individual books or as a journal. For information on institutional journal subscriptions please visit www.blackwellpublishing.com/nyas. ACADEMY MEMBERS: Please contact the New York Academy of Sciences directly to place your order. www.nyas.org. Members of the New York Academy of Science receive full text access to the Annals online and discounts on print volumes. Please visit <http://www.nyas.org/MemberCenter/Join.aspx> for more information about becoming a member.

Integrating Economic and Ecological Indicators J. Walter Milon, Jason Shogren, 1995-03-18. Recent international appeals for sustainable development policies have renewed efforts to explore the common ground between economics and ecology. This volume presents a collection of papers from leading researchers around the world who evaluate the analytical foundations and empirical systems that are being developed to integrate economic and environmental indicators. These specialists identify key data requirements and modeling systems. Economists, ecologists and policy makers will find this work introducing integrated modeling systems thought provoking and useful.

The Ecological Economics of Sustainability Robert Costanza, 1990 *Ecological Economics* Stanislav E.

Shmelev, 2011-10-12 In a concise and crisp manner this book presents the state of the art in ecological economics an interdisciplinary field focused on the analysis of sustainability of global national and regional economic systems An elegant guide the book offers a range of cutting edge methods used in sustainability research including multicriteria decision aid MCDA input output analysis and life cycle analysis This book is packed with references for students with some background in economics environmental science or mathematics who aim to develop the analytical skills required for redirecting our development path towards sustainability in government international organisations academia non profit sector and business As such the book is primarily aimed at MSc and first year PhD students reading for degrees in Environmental Change and Management Ecological Economics Environmental Management Philosophy Politics and Economics and those taking part in similar programmes The book strives to develop the idea that a significant adjustment of the current economic theories is required an idea supported by the emerged world economic crisis the climatic and biodiversity crisis the world is currently facing and the enormously slow progress that has been made in the field of reorientation of the global economy towards sustainability The practical case studies provided focus on the most pressing topics of today and the book adopts a positive approach for problem solving and strategic development which is aimed at educating the future decision makers and business leaders

Innovation, Space and Economic Development Peter Nijkamp, 2004 Published simultaneously with three other volumes containing thematically grouped essays by Nijkamp economics Free U the Netherlands and collaborators this collection contains 19 papers the author considers to be novel contributions to the spatial economic analysis of

innovation entrepreneurship and urban and regional development Originally appearing between 1989 and 2002 the essays examine the theoretical bases of spatial analysis of economic growth and innovation include macro and regional studies as well as micro sector and firm level studies and explore applications related to urban and regional policy Annotation 2004

Book News Inc Portland OR booknews com **Ecological Economics** Robert Costanza, 1992-07-30 Ecological economics is

a new transdisciplinary approach to understanding and managing the ecology and economics of our world for sustainability on local regional and global scales The previous isolation of these two fields has led to economic and environmental policies that have been mutually destructive rather than reinforcing in the long term This book brings together these two disciplines in chapters covering the basic worldview of ecological economics accounting modeling and analysis of ecological economic systems and necessary institutional changes and case studies

Complexity in Economics: Urban-economic models, evolutionary economics, and ecologic-economic systems John Barkley Rosser, 2004 Complex dynamics in economics

arise from nonlinear systems that do not converge to a fixed point a limit cycle or explode or implode exponentially due to endogenous factors They arise from cybernetics catastrophe theory chaos theory or the varieties of modern complexity theory including models with heterogeneous interacting agents This collection presents the most important papers in the

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