

Juval Portugali

# Self-Organization and the City



Springer

# Selforganization And The City

**Makoto Tanabe, Peter van den  
Besselaar, Toru Ishida**



## **Selforganization And The City:**

*Self-Organization and the City* Juval Portugali, 2012-11-28 This book integrates the theories of complex self organizing systems with the rich body of discourse and literature developed in what might be called social theory of cities and urbanism. It uses techniques from dynamical complexity and synergetics to successfully tackle open social science questions.

Self-Organization and the City Juval Portugali, 2012-12-06 Cities first came into existence more than five thousand years ago. How to deal with these partly fascinating partly frightening creatures of mankind both practically and intellectually concerns all of us and in particular presents a real challenge to city planners. Each historical epoch has had its own particular attitudes associated with the Zeitgeist. Accordingly the planning and steering of cities were based on quite different criteria. But in spite of these differences the concept of planning and steering was and still is the cornerstone of our dealing with cities. Nevertheless the planner's dilemma is becoming more and more visible: cities and megacities seem to be unplanable. In this book Juval Portugali introduces a new idea: Cities are self organizing systems. To substantiate his revolutionary concept he uses several interlinked methods. On the one hand and to my own delight he employs in his arguments theoretical tools developed in the interdisciplinary field of synergetics. On the other hand jointly with his co-workers he has performed detailed model calculations on cellular nets. It has been a great pleasure and a wonderful experience for me to discuss these concepts with Juval Portugali over a number of years. I was repeatedly and deeply impressed by the way he established profound and often surprising links to other fields of science. *Self-Organization of Complex Structures* Frank

Schweitzer, 1997-07-16 During the past twenty years a broad spectrum of theories and methods have been developed in physics, chemistry and molecular biology to explain structure formation in complex systems. These methods have been applied to many different fields such as economics, sociology and town planning and this book reflects the interdisciplinary nature of complexity and self organisation. The main focus is on the emergence of collective phenomena from individual or microscopic interactions. Presents a wide ranging overview from fundamental aspects of the evolution of complexity to applications in biology, ecology, sociology, economics and urban structure formation. *Complex Artificial Environments* Juval

Portugali, 2006-01-09 This book explores the possibilities of applying the theories of complexity and self organization developed to account for various phenomena in the natural science to artifacts traditionally the realm of humanities and social sciences. The emphasis of this volume is on the development of cities and the impact of these methods on urban simulation methods. **Complexity, Cognition and the City** Juval Portugali, 2011-07-06 Complexity Cognition and the City

aims at a deeper understanding of urbanism while invoking on an equal footing the contributions both the hard and soft sciences have made and are still making when grappling with the many issues and facets of regional planning and dynamics. In this work the author goes beyond merely seeing the city as a self organized emerging pattern of some collective interaction between many stylized urban agents; he makes the crucial step of attributing cognition to his agents and thus

raises for the first time the question on how to deal with a complex system composed of many interacting complex agents in clearly defined settings Accordingly the author eventually addresses issues of practical relevance for urban planners and decision makers The book unfolds its message in a largely nontechnical manner so as to provide a broad interdisciplinary readership with insights ideas and other stimuli to encourage further research with the twofold aim of further pushing back the boundaries of complexity science and emphasizing the all important interrelation of hard and soft sciences in recognizing the cognitive sciences as another necessary ingredient for meaningful urban studies

**Contractual Communities in the Self-Organising City** Grazia Brunetta, Stefano Moroni, 2012-01-05 Both land use regulation and territorial collective services have traditionally been accomplished in cities through coercive efforts of public administrations Recently land use regulation and collective service provision regimes have emerged within contractual communities territory based organisations usually but not exclusively residential such as homeowners associations This book examines the problems and opportunities of contractual communities avoiding both the alarmism and unwarranted apologies found in much of the literature on contractual communities The central notion is that cases in which coercive action by a public agency was deemed indispensable have been unjustly overstated while the potential benefits of voluntary self organising processes have been seriously understated The authors propose a revised notion of the state role that allows ample leeway for contractual communities of all forms

**Urban Microclimate Modelling for Comfort and Energy Studies** Massimo Palme, Agnese Salvati, 2021-04-08 This book discusses urban microclimate and heat related risks in urban areas brought on by the combination of global climate change effects and local modification of climate determined by extensive urbanization such as the Urban heat island phenomenon This matter is relevant to almost all urbanized areas in the world where the increase of urban population and air temperature is expected to endanger both the overall health of the population and the energy supply for the functioning of urban systems The book details the inter relationship between urban morphology microclimate and building energy performance and presents a multidisciplinary approach that brings together Urban Climatology Engineering and Architectural knowledge to support the development of reliable models and tools for research and practice This book is a useful tool for architects and building energy modelers urban planners and geographers who need a practical guide to realize basic urban microclimate simulation for use in both academic research and planning practice

**Spatially Integrated Social Science** Michael F. Goodchild, Donald G. Janelle, 2004-01-15 Spatial analysis assists theoretical understanding and empirical testing in the social sciences and rapidly expanding applications of geographic information technologies have advanced the spatial data gathering needed for spatial analysis and model making This much needed volume covers outstanding examples of spatial thinking in the social sciences with each chapter showing some aspect of how certain social processes can be understood by analyzing their spatial context The audience for this work is as trans disciplinary as its authorship because it contains approaches and methodologies useful to geography anthropology history

political science economics criminology sociology and statistics      **Technology and the City** Michael Nagenborg, Taylor Stone, Margoth González Woge, Pieter E. Vermaas, 2021-01-25 The contributions in this volume map out how technologies are used and designed to plan maintain govern demolish and destroy the city The chapters demonstrate how urban technologies shape and are shaped by fundamental concepts and principles such as citizenship publicness democracy and nature The many authors herein explore how to think of technologically mediated urban space as part of the human condition The volume will thus contribute to the much needed discussion on technology enabled urban futures from the perspective of the philosophy of technology This perspective also contributes to the discussion and process of making cities smart and just This collection appeals to students researchers and professionals within the fields of philosophy of technology urban planning and engineering      **Understanding Emergent Urbanism** Sotir Dharmo, 2021-08-31 The ideas presented in this book are a conceptual leverage to correct the rigidity of top down practices and bring the real city or the city of everyday life closer to the city of conventional planning Considering self organization as the starting point at the base of complex systems this book tries to understand how specific qualities emerge and evolve from this behavior For this the book discusses new ways of looking at and understanding cities by applying holistic methods and approaches based on the conceptual grounds of quantum fractal and complexity theories The book highlights the fact that the information on how to transform and build a city is contained within the city itself In this regard some methodological steps to unpack complexities and translate the essential qualities of space into potential generators for city design and planning are provided The book urges courageous experimentation and proposes a methodology where the computational nature of urban phenomena goes along with historic anthropological ideas thus emphasizing the characteristics of a specific reality in a model They do not exclude each other in fact they are part of the unbroken web of wholeness Importantly the proposed methodology supports gradual and natural coevolution process in the city through combining planned and unplanned actions and the involving multiplicity of actors impacting on Urban Planning and Design Practice      *Theory of Urban Space Development* Jin Duan, 2024-08-29 This book is a systematic monograph on urban space development theory exploring the laws of urban space development and the basic principles of planning and design It clarifies the connotation and methods of urban space development research highlights the deep structure and four laws of urban space development expounds the obvious characteristics of urban and regional forms and discusses the interventional role of urban planning and the development mode of Chinese urban space It also discusses the methodological change of modern urban design and forms the principles and core content of China's national spatial planning Guided by the fundamental principles and methods of development theory this book follows logical progression from concept to method from deep structure to manifest form from macro to micro and from law to planning By providing readers with a comprehensive and systematic urban space development research system this book is a valuable read for both researchers and graduate students in urban studies and architectural design The translation was done with the

help of artificial intelligence A subsequent human revision was done primarily in terms of content

Sustainable City and Creativity Tüzün Baycan, 2016-04-01 The notion of creative cities where cultural activities and creative and cultural industries play a crucial role in supporting urban creativity and contributing to the new creative economy has become central to most regional and urban development strategies in recent years A creative city is supposed to develop imaginative and innovative solutions to a range of social economic and environmental problems economic stagnancy urban shrinkage social segregation global competition or more Cities and regions around the world are trying to develop facilitate or promote concentrations of creative innovative and or knowledge intensive industries in order to become more competitive These places are seeking new strategies to combine economic development with quality of place that will increase economic productivity and encourage growth Against this increasing interest in creative cities this volume offers a coherent set of articles on sustainable and creative cities and addresses modern theories and concepts relating to research on sustainability and creativity It analyses principles and practices of the creative city for the formulation of policies and recommendations towards the sustainable city It brings together leading academics with different approaches from different disciplines to provide a comprehensive and holistic overview of creativity and sustainability of the city linking research and practice In doing so it puts forward ideas about stimulating the production of an innovative knowledge for a creative and sustainable city and transforming a specific knowledge into a general common knowledge which suggests best future policy actions decision making processes and choices for the change towards a human sustainable development of the city

Agent-Based Computational Demography Francesco C. Billari, Alexia Prskawetz, 2012-12-06 Agent Based Computational Demography ABCD aims at starting a new stream of research among social scientists whose interests lie in understanding demographic behaviour The book takes a micro demographic agent based perspective and illustrates the potentialities of computer simulation as an aid in theory building The chapters of the book written by leading experts either in demography or in agent based modelling address several key questions Why do we need agent based computational demography How can ABCD be applied to the study of migrations family demography and historical demography What are the peculiarities of agent based models as applied to the demography of human populations ABCD is of interest to all scientists interested in studying demographic behaviour as well as to computer scientists and modellers who are looking for a promising field of application

City Power Richard Schragger, 2016-09-01 Reigning theories of urban power suggest that in a world dominated by footloose transnational capital cities have little capacity to effect social change In City Power Richard C Schragger challenges the existing assumptions arguing that cities can govern but only if we let them In the past decade city leaders across the country have raised the minimum wage expanded social services and engaged in social welfare redistribution These cities have not suffered capital flight In fact many are experiencing an economic renaissance Schragger argues that city policies are not limited by the demands of mobile capital but instead by constitutional restraints serving the interests of state and federal officials

Maintaining weak cities is a political choice In this new era of global capital the power of cities is more relevant to citizen well being than ever before A dynamic vision of city politics for our new urban age City Power reveals how cities can govern despite these constitutional limits and why we should want them to     The AI City Siegfried Zhiqiang WU,2025-05-29 This open access book presents the concept of AI Cites for the first time It includes the theoretical basis development frontier and different application scenarios of artificial intelligence cities The book is accompanied by rich practical cases to conduct in depth and detailed discussions on the proposition of artificial intelligence cities It fills the gap between artificial intelligence and urban planning This book points out the urgent human needs in the city for AI scientists to considered in the next round of AI technology development It also provides new ideas for urban planners and researchers to solve problems with new technologies     **Sustainability Plan and Future Prospects of City Ports of Brindisi and Igoumenitsa** Elisabetta Venezia,Mariateresa Gattullo,Andrea Santoro,2025-05-21

Handbook of Regional and Urban Economics, vol. 5B Gilles Duranton,Vernon Henderson,William Strange,2015-05-15 Developments in methodologies agglomeration and a range of applied issues have characterized recent advances in regional and urban studies Volume 5 concentrates on these developments while treating traditional subjects such as housing the costs and benefits of cities and policy issues beyond regional inequalities Contributors make a habit of combining theory and empirics in each chapter guiding research amid a trend in applied economics towards structural and quasi experimental approaches Clearly distinguished from the New Economic Geography covered by Volume 4 these articles feature an international approach that positions recent advances within the discipline of economics and society at large Editors are recognized as leaders and can attract an international list of contributors Regional and urban studies interest economists in many subdisciplines such as labor development and public economics Table of contents combines theoretical and applied subjects ensuring broad appeal to readers     **Digital Cities**

**II: Computational and Sociological Approaches** Makoto Tanabe,Peter van den Besselaar,Toru Ishida,2003-08-02

**Integral City** Marilyn Hamilton,2008-11-01 Cities function unintelligently when their parts are disconnected The integral city meshes or multiplies city intelligences by integrating capacities functions and locations into a whole system like a human hive Everything counts An integral city exists as a whole living system within the context of a specific natural environment climate and ecology The city like a human hive dances with a complex concentration of energies As a natural system with intellectual physical cultural and social intelligences it adapts to all the same issues factors and challenges that affect the evolution of life anywhere how to integrate information matter and energy Integral City applies an integral paradigm for appreciating the city Numerous graphs and specific examples describe integral processes and tools for change This is a global whole multi perspective way of looking at the world Chapters explore Four quadrant map of reality Cities as concentrators of complex wealth Mapping intelligence capacities Mapping infrastructure for resource allocation Designing appropriate governance systems Relating the exterior environment to interior city life Meshworking Integral vital signs

monitors Integral City will appeal to anyone interested in creating conditions in which our cities can evolve intelligently beyond the challenges of the 21st century      **Designing the Complex City** Elena Porqueddu, 2025-08-08 How can designers address the emergent self organizing nature of complex urban environments Designing the Complex City highlights how both an excess and a lack of design control might contrast the lively complexity of cities their adaptive and evolutionary capacity By using key concepts from systems thinking complexity sciences life sciences cognitive sciences and social sciences the book frames a systemic spatial design approach aimed at enhancing the potential of different spatial design disciplines to navigate place specific emergent transformations without overdetermining their formal outcome A range of heterogeneous case studies developing at different scales show how embracing a design approach that is embodied open ended contextually responsive incremental and adaptive does not question the relevance of designers specific skills in shaping the physical structure of cities it may rather increase their potential to effectively intervene in complex adaptive cycles of urban decay and self regeneration Designing the Complex City provides insights for students researchers and academics in architecture interior design urban and landscape design planning theory and urban studies It is essential reading for all designers who seek to proactively and meaningfully intervene in spontaneous socio spatial dynamics



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