NIKOS A. SALINGAROS

ALGORITHMIC SUSTAINABLE DESIGN

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Nikos A. Salingaros

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Twelve Lectures on Architecture Nikos A. Salingaros, 2010 Twelve Lectures on Architecture is a profound philosophical work presented as a set of architectural lecture notes It reads very easily explaining why certain buildings and places speak to our hearts thus illuminating many of our old assumptions about taste Salingaros establishes using biology why traditional architecture is perceived intuitively by most people as more natural and life affirming than modernist architecture A deep malaise of contemporary society is tied to the shocking state of architecture and urbanism in our times characterized by distorted buildings and unusable urban spaces Salingaros is the archetypal deep thinker and punctures the pretenses of our most respected architecture critics He is a charismatic teacher and manages to explain seemingly inaccessible concepts such as fractals scaling the golden mean cellular automata genetic algorithms and complexity in simple hand drawn sketches He has found a way to translate the complexities inherent in the design of our environment into imagery that even a general reader can understand Twelve Lectures on Architecture includes an excellent introduction to Christopher Alexander's recent and remarkable work on how biology and architecture intersect in humankind s unconscious perceptions This book has the importance to change the world because it goes into things that people should have thought about but haven t What They re Saying With Nikos as our guide we see through the invisibility of the emperor s new clothes and we laugh or cry all the harder at the joke played on mankind by modern architecture The Providence Journal Salingaros is a charismatic teacher The author presents mathematical concepts and computer technologies fractals cellular automata genetic algorithms He shows us the beauty of mathematics through its usage Formulating his message through a broad spectrum of topics Salingaros appears to be a true Renaissance figure Jadwiga Zarnowiecka professor and architect Bialystok Poland This book is intended for students yet I think it should be read by everyone who is interested in or works with the built environment Those who teach urban planning do it for their own ego not for people who are supposed to live there The result is an architectural object for imaginary people Cristina Caramelo Gomes professor and architect Lisbon Portugal Algorithmic Sustainable **Design: Twelve Lectures on Architecture** Nikos A. Salingaros, 2021-03-11 **Algorithmic Sustainable Design Nikos** Angelos Salingaros, 2013 Handbook of Research on Visual Computing and Emerging Geometrical Design Tools Amoruso, Giuseppe, 2016-04-11 Visual computing and descriptive geometry are multidisciplinary fields addressing the handling of images 3D models and other computer graphics These ideas are experiencing a revival due to emergent technologies and applications available to developers Based in traditional forms of design and architecture these fields are currently experiencing a bounty of new research based on old principles The Handbook of Research on Visual Computing and Emerging Geometrical Design Tools seeks to add to this knowledge base by considering these technologies from a designer s perspective rather than reiterating the principles of computer science It combines aspects of geometry and representation with emerging tools for CAD generation and visualization while addressing the digital heritage of such fields This book is an

invaluable resource for developers students of both graphic and computer generated design researchers and designers

<u>Unified Architectural Theory: Form, Language, Complexity</u> Nikos A. Salingaros, 2017-06-05

<u>Proceedings of the 8th International Conference on Construction, Architecture and Technosphere Safety</u> Andrey A. Radionov, Dmitrii V.

Ulrikh, Vadim R. Gasiyarov, 2024-12-31 This book highlights recent findings in civil and environmental engineering and urban planning and provides an overview of the state of the art in these fields mainly in Russia and Eastern Europe A broad range of topics and issues in modern engineering are discussed including construction buildings and structures advanced materials innovative technology methods and techniques in civil engineering heating gas supply water supply and sewerage foundation engineering BIM structural reliability durability and monitoring special and unique structures construction bridge tunnel road railway engineering design and construction of hydraulic structures concrete engineering urban regeneration and sustainable development urban transport system engineering structure safety and disaster prevention water resources engineering water and wastewater treatment recycling and reuse of wastewater etc The volume gathers selected papers from the 8th International Conference on Construction Architecture and Technosphere Safety ICCATS held in Sochi Russia in

September 2024 The authors are experts in various fields of engineering and all papers have been carefully reviewed

Spatial Synthesis Xinyue Ye, Hui Lin, 2020-11-30 This book describes how powerful computing technology emerging big and open data sources and theoretical perspectives on spatial synthesis have revolutionized the way in which we investigate social sciences and humanities It summarizes the principles and applications of human centered computing and spatial social science and humanities research thereby providing fundamental information that will help shape future research The book illustrates how big spatiotemporal socioeconomic data facilitate the modelling of individuals economic behavior in space and time and how the outcomes of such models can reveal information about economic trends across spatial scales It describes how spatial social science and humanities research has shifted from a data scarce to a data rich environment The chapters also describe how a powerful analytical framework for identifying space time research gaps and frontiers is fundamental to comparative study of spatiotemporal phenomena and how research topics have evolved from structure and function to dynamic and predictive As such this book provides an interesting read for researchers students and all those interested in computational and spatial social sciences and humanities Design Roots Stuart Walker, Martyn Evans, Tom Cassidy, Amy Twigger Holroyd, Jeyon Jung, 2018-02-08 Design Roots provides a comprehensive review of culturally significant designs products and practices which are rooted to particular communities through making tradition and a sense of place Many rich traditional practices associated with community tacit knowledge and culture are being rapidly lost due to globalisation and urbanisation Yet they have much to offer for the future in terms of sustainability identity wellbeing and new opportunities in design This book considers the creative roots the place based ecologies and deep understandings of cultural significance not only in terms of history and tradition but also in terms of locale social interactions innovation and change for the sustainment of culturally significant material productions Importantly these are not locked in time by sentimentality and nostalgia but are evolving innovative and adaptive to new technologies and changing circumstances Contributing authors explore the historical roots of culturally significant designs products and practices emerging directions amateur endeavours enterprise models business opportunities and the changing role and contribution of design in the creation of material cultures of significance meaning and value An international perspective is provided through case studies and research from North and South America Africa Europe Asia and Australasia with examples including Aran jumper production in Northern Ireland weaving in Thailand Iranian housing design Brazilian street design and digital crafting in the United Kingdom

E-Planning and Collaboration: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-06-04 As population growth accelerates researchers and professionals face challenges as they attempt to plan for the future E planning is a significant component in addressing the key concerns as the world population moves towards urban environments E Planning and Collaboration Concepts Methodologies Tools and Applications contains a compendium of the latest academic material on the emerging interdisciplinary areas of e planning and collaboration Including innovative studies on data management urban development and crowdsourcing this multi volume book is an ideal source for planners policymakers researchers and graduate students interested in how recent technological advancements are enhancing the traditional practices in e planning Istanbul Noah Billig, 2018-10-03 Istanbul Informal Settlements and Generative Urbanism analyzes two informal housing settlements in Istanbul Turkey Karanfilk y and Fatih Sultan Mehmet to examine how generatively built structures and neighbourhoods can be successfully realized in a modern burgeoning urban context Generative development processes adapt to existing conditions and unfold over time but there have been relatively few examples in the 20th and 21st centuries This book evaluates the constructs of living structures pattern languages and generative urban design processes in relation to Istanbul's informal settlements It provides examples of communities making liveable dynamic and user adapted neighbourhoods and establishes them as a modern settlement typology in generative urban design theory Design for a Living Planet Michael Mehaffy and Nikos A. Salingaros, 2017-05-30 In this brief accessible volume the authors an urban philosopher and a mathematician physicist explain the surprising new findings from the sciences that are beginning to transform environmental design in the modern era Authors Michael Mehaffy and Nikos Salingaros explore fractals networks self organization dynamical systems and other revolutionary ideas describing them to non science readers in a direct and engaging way The book also examines fascinating new topics of design including Agile Wiki Design Patterns and other open source approaches from the software world The authors conclude that a profound transformation is under way in modern design and today s students and practitioners will need to be aware of its implications for our future Lucidly describes what s coming in the world of design and what needs to come Ward Cunningham Inventor of wiki and pioneer of Pattern Languages of Programming Agile and Scrum Essential reading for all urban designers Jeff Speck

Author of Walkable City Brilliant Charles Montgomery Author of Happy City Inspired compelling and fascinating Recognizes that a true architecture can be dug from the facts insights and theories that occur with a broadening of science to include the human being Christopher Alexander Author of A Pattern Language and Notes on the Synthesis of Form Some comments on the individual chapters Packed with detail and beautiful in presentation Gil Friend Human society must find a path of retreat Salingaros and Mehaffy point the way David Brussat Providence Journal Michael Mehaffy and Nikos Salingaros have written some brilliant articles on how we can co create cities which are truly resilient rather than being engineered resilient Smallworld Urbanism For me this essay was like a flash of insight and I suddenly saw the world in a new light Oeyvind Holmstad Permaliv We ve just come across a very thoughtful article by Michael Mehaffy and Nikos Salingaros who draw a number of lessons from biological systems and use them to draw conclusions about how resilient human systems must be designed Resilient Design Institute Salingaros and Mehaffy take us from the configuration of city spaces to the order of cells in living beings Jaap Dawson Delft Institute of Technology If you wanted to know where the cutting edge was in urban design it is here Patrick J Kennedy CarFreeInBigD This is the single most intelligent and illuminating article I ve seen on Archdaily in 3 years N ming P ngl n Zh China Michael Mehaffy is an urbanist and design theorist and a periodic visiting professor or adjunct in five graduate universities in four countries and three disciplines architecture urban planning and philosophy including the University of Oregon US and the University of Strathclyde UK He has been a close associate of the architect and software pioneer Christopher Alexander and a Research Associate with the Center for Environmental Structure Alexander's research center founded in 1967 He is currently executive director of Portland Oregon based Sustasis Foundation and editor of Sustasis Press Nikos A Salingaros is a mathematician and polymath known for his work on urban theory architectural theory complexity theory and design philosophy He has been a close collaborator of the architect and computer software pioneer Christopher Alexander Salingaros published substantive research on Algebras Mathematical Physics Electromagnetic Fields and Thermonuclear Fusion before turning his attention to Architecture and Urbanism He is Professor of Mathematics at the University of Texas at San Antonio and has been on the Architecture faculties of universities in Italy Mexico and The Netherlands Beyond Utopia Agnes Nyilas, 2018-05-25 Megastructure proposals by the Japanese Metabolism group are commonly identified with the concept of utopia Beyond this partial understanding Agnes Nyilas suggests that rather than being merely utopian the Megastructure of Metabolism represents a uniquely amalgam genre the myth camouflaged as utopia Although its Megastructure seemingly describes a desirable future condition as utopia does it also comprises certain cultural images rooted in the collective un conscious of Japanese people in accordance with the general interpretation of myth The primary narrative of Beyond Utopia thus follows the gradual unfolding of the myth like characteristics of its Megastructure Myth is dealt here as an interdisciplinary subject in line with contemporary myth theories After expounding the mechanism underlying the growing demand for a new myth in architecture the origin of the

myth Part I discovers the formal characteristics of the Megastructure of Metabolism to give a hint of the real intention behind it Based on this Part II is a reexamination of their design methods which aims to clarify the function of the myth and to suggest the meaning behind it Finally Part III deals with the subject matter of the myth by disclosing the meaning unfolding in the story and suggests a new reading of Metabolism urban theory as an attempt to reconsider the traditional Knowledge in the Information Society Daria Bylieva, Alfred Nordmann, Olga Japanese space concept Shipunova, Violetta Volkova, 2021-01-15 This book provides a snapshot of state of the art interdisciplinary discussions in Russia about technology in the information society New technologies are subject to original theoretical analysis but there are also reflections on the practical experience of their application The book covers a range of topics which includes human technology interaction education in digital reality distance education due to COVID 19 guarantine measures cognitive technologies system analytics of information and communication technologies The book collects contributions from philosophy didactics computer sciences sociology psychology media studies and law It contains a selection of papers accepted for presentation at the XX International Conference Professional Culture of the Specialist of the Future 26 27 November 2020 St Petersburg and the XII International Conference CommunicativeStrategies of the Information Society 23 24 October 2020 St Petersburg Green Governance Burns H. Weston, David Bollier, 2013-01-21 The vast majority of the world's scientists agree we have reached a point in history where we are in grave danger of destroying Earth's life sustaining capacity But our attempts to protect natural ecosystems are increasingly ineffective because our very conception of the problem is limited we treat the environment as its own separate realm taking for granted prevailing but outmoded conceptions of economics national sovereignty and international law Green Governance is a direct response to the mounting calls for a paradigm shift in the way humans relate to the natural environment It opens the door to a new set of solutions by proposing a compelling new synthesis of environmental protection based on broader notions of economics and human rights and on commons based governance Going beyond speculative abstractions the book proposes a new architecture of environmental law and public policy that is as practical as it is theoretically sound **Smart Metropolitan Regional Development** T.M. Vinod Kumar, 2018-05-31 This book discusses the concept and practice of a smart metropolitan region and how smart cities promote healthy economic and spatial development It highlights how smart metropolitan regional development can energize reorganize and transform the legacy economy into a smart economy how it can help embrace Information and Communications Technology ICT and how it can foster a shared economy In addition it outlines how the five pillars of the third industrial revolution can be achieved by smart communities In addition the book draws on 16 in depth city case studies from ten countries to explore the state of the art regarding the smart economy in smart cities and to apply the lessons learned to shape smart metropolitan economic and spatial development Diagnosis of Heritage Buildings by Non-Destructive Techniques Blanca Tejedor Herrán, David Bienvenido-Huertas, 2024-04-27 Besides their notable historical

and cultural significance heritage buildings crucially contribute to the economy of those countries that rely heavily on the tourism industry Investigation and monitoring of the origins of deterioration and damage are therefore key to the preservation of architectural heritage Diagnosis of Heritage Buildings by Non Destructive Techniques offers an up to date overview of state of the art knowledge by collating specialized studies written by an international group of experts in the field while also examining the value of these non intrusive methods through a number of real life case studies which prove NDT techniques global relevance. The volume is an invaluable reference resource for students researchers and practitioners alike Helps readers to easily identify the latest advances in non destructive testing by subdividing the content into sections specific to each assessment approach Explores the integration of different NDT methodologies facilitating the interoperability of traditional and advanced technologies Presents case studies based on real built heritage to show how to correctly implement the measurement techniques described and to interpret the results Geographic Information System for Smart Cities T M Vinodkumar, 2016-09-12 Smart city is mindful every second and communicates in real time analyzed knowledge to citizen for satisfactory way of life with easy delivery of services comfortable mobility conserving energy environment and other natural resources and creating energetic communities and a vibrant urban economy Geographic Information Systems for Smart Cities explores the role of GIS in upgrading existing cities to smart cities Beginning with a discussion on process of transition from existing GIS to smart city GIS the book goes on to explore the GIS for smart and sustainable urbanization practical difficulties in implementing and maintaining such self aware GIS open large scale geo data management and web map services to achieve the smart city goals role of GIS in community development The book explains the adaptive urbanism for sea level rise and environmentally sensitive land use allocation for coastal smart cities Chapters explaining the use of GIS for slum management and smart buildings in smart cities are also included To emphasize on the importance of mobility in smart cities the book discusses the role of using intra day trip generation and travel management for a smart city intelligent goods transportation system GIS based land use suitability and transportation model The latter part of the book explores agent based simulation focused on natural disasters and safe location biourbanism as a new framework for smart cities studies new discipline of smart planning Smart cities future opportunities and barriers through scenario based urban planning support system are discussed in detail How past Indian experiences can be extended in future for smart Indian cities is explained The book concludes with the identification of existing cities for upgradation ways and means of activation of smart communities smart institutional framework smart economy and deployment of smart urban technologies With its distinguished editor and international team of contributors Geographic Information Systems for Smart Cities is a standard reference work for city planners urban managers GIS specialists and policy makers who are actively involved in building smart cities Didaktische Entwurfsmuster Reinhard Bauer, 2015 Unterricht und seine Gestaltung stehen in einem Spannungsverh ltnis zwischen Theorie und Praxis Wie kann diese Kluft zwischen Wissen und Handeln berbrickt werden Als eine Miglichkeit werden in j

ngster Zeit didaktische Entwurfsmuster diskutiert Auf systematische Weise dokumentieren sie bew hrte L sungen fr wiederkehrende Probleme bei der Gestaltung didaktischer Szenarien und machen so das implizite Wissen erfahrener Lehrender fr Novizinnen und Novizen nutzbar Von wem wie und warum wurde der Muster Ansatz aus der Architektur auf die Didaktik bertragen Welche Problematik verbirgt sich in diesem gedanklichen Br ckenschlag Wie sehen didaktische Entwurfsmuster aus und worin bestehen ihre St rken und Schw chen Was sind die notwendigen Voraussetzungen daf r dass didaktische Entwurfsmuster nutzbringend fr die Unterrichtsgestaltung eingesetzt werden k nnen Diesen Fragen n hert sich Reinhard Bauer aus einer diskursanalytischen Perspektive mit dem Ziel den von Christopher Alexander fr die Architektur entwickelten Muster Ansatz fr die Didaktik zu ffnen und nutzbar zu machen Reinhard Bauer promovierte 2014 an der Alpen Adria Universit t Klagenfurt Er lehrt und forscht am Institut fr bergreifende Bildungsschwerpunkte IBS der P dagogischen Hochschule Wien wo er sich im Zentrum fr Lerntechnologie und Innovation ZLI mit den Einsatzm glichkeiten von digitalen Technologien Medien und Werkzeugen fr eine zeitgem e und innovative Hochschul Didaktik besch ftigt Theories of Cities Have Come of Age Juval Portugali, Han Meyer, Egbert Stolk, Ekim Tan, 2012-02-04 Today our cities are an embodiment of the complex historical evolution of knowledge desires and technology Our planned and designed activities co evolve with our aspirations mediated by the existing technologies and social structures The city represents the accretion and accumulation of successive layers of collective activity structuring and being structured by other increasingly distant cities reaching now right around the globe This historical and structural development cannot therefore be understood or captured by any set of fixed quantitative relations Structural changes imply that the patterns of growth and their underlying reasons change over time and therefore that any attempt to control the morphology of cities and their patterns of flow by means of planning and design must be dynamical based on the mechanisms that drive the changes occurring at a given moment This carefully edited post proceedings volume gathers a snapshot view by leading researchers in field of current complexity theories of cities In it the achievements criticisms and potentials yet to be realized are reviewed and the implications to Arquitetura Contemporânea e Automação João Gaspar, Maycon Ricardo planning and urban design are assessed Sedrez, Gabriela Celani, 2018-04-04 A organiza o deste livro celebra os dez anos de exist ncia do LAPAC Laborat rio de Automa o e Prototipagem para Arquitetura e Constru o da Unicamp concebido pela professora Gabriela Celani e gerido por ela e sua extensa equipe de orientandos representada na co organiza o desta publica o por Maycon Sedrez N o devemos entender no entanto que a palavra laborat rio deva ser interpretada como se desse significado meramente s instala es f sicas nas quais se desenvolvem atividades de pesquisa o que em se tratando do campo da arquitetura e do urbanismo no Brasil n o seria menor Neste caso trata se de algo maior da jun o fecunda e retroalimentadora entre labor conhecimento e experimenta o em seu melhor modo de conex o a articula o entre teoria e pr tica com o objetivo de tensionar o conhecimento para al m do per metro do senso comum Para al m da efici ncia do uso das tecnologias digitais de projeto e constru o em qualquer dos

seus n veis energ tico estrutural ambiental espacial formal etc que ora se enfatiza as pesquisas aqui reunidas se afirmam por partilharem um territ rio comum o do projeto de tecnologias para projetos Em conson ncia com esta quest o o que se apresenta em Arquitetura e Automa o n o a abstra o de solu es projetuais sem arquitetos resultantes de a es realizadas automaticamente por computadores aut nomos mas a investiga o de situa es em que o pensar e o fazer arquitetura s o potencializados por pares arquitetos aparatos tecnol gicos David Sperling Estes t picos s o extremamente atuais e n o h inten o de esgotar o assunto com esta publica o o prop sito celebrar os 10 anos do LAPAC Laborat rio de Automa o e Prototipagem para Arquitetura e Constru o da Unicamp e apresentar novos caminhos para os arquitetos brasileiros avan arem em suas pesquisas

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