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KEY=TO - JAEDEN HAIDEN

SIMPLY COMPLEXITY

A CLEAR GUIDE TO COMPLEXITY THEORY

Simon and Schuster **The new branch of science which will reveal how to avoid the rush hour, overcome cancer, and find the perfect date What do traffic jams, stock market crashes, and wars have in common? They are all explained using complexity, an unsolved puzzle that many researchers believe is the key to predicting - and ultimately solving - everything from terrorist attacks and pandemic viruses right down to rush hour traffic congestion. Complexity is considered by many to be the single most important scientific development since general relativity and promises to make sense of no less than the very heart of the Universe. Using it, scientists can find order emerging from seemingly random interactions of all kinds, from something as simple as flipping coins through to more challenging problems such as predicting shopping habits, the patterns in modern jazz, and the growth of cancer tumours.**

COMPLEXITY THEORY AND THE SOCIAL SCIENCES

AN INTRODUCTION

Routledge **Chaos and complexity are the new buzz words in both science and contemporary society. The ideas they represent have enormous implications for the way we understand and engage with the world. Complexity Theory and the Social Sciences introduces students to the central ideas which surround the chaos/complexity theories. It discusses key concepts before using them as a way of investigating the nature of social research. By applying them to such familiar topics as urban studies, education and health, David Byrne allows readers new to the subject to appreciate the contribution which complexity theory can make to social research and to illuminating the crucial social issues of our day.**

THE COMPLETE IDIOT'S GUIDE TO GAME THEORY

THE FASCINATING MATH BEHIND DECISION-MAKING

Penguin **Gain some insight into the game of life... Game Theory means rigorous strategic thinking. It is based on the idea that everyone acts competitively and in his own best interest. With the help of mathematical models, it is possible to anticipate the actions of others in nearly all life's enterprises. This book includes down-to-earth examples and solutions, as well as charts and illustrations designed to help teach the concept. In The Complete Idiot's Guide® to Game Theory, Dr. Edward C. Rosenthal makes it easy to understand game theory with insights into: ? The history of the disciple made popular by John Nash, the mathematician dramatized in the film A Beautiful Mind ? The role of social behavior and psychology in this amazing discipline ? How important game theory has become in our society and why**

THE LITTLE BOOK OF STRING THEORY

Princeton University Press **The essential beginner's guide to string theory The Little Book of String Theory offers a short, accessible, and entertaining introduction to one of the most talked-about areas of physics today. String theory has been called the "theory of everything." It seeks to describe all the fundamental forces of nature. It encompasses gravity and**

quantum mechanics in one unifying theory. But it is unproven and fraught with controversy. After reading this book, you'll be able to draw your own conclusions about string theory. Steve Gubser begins by explaining Einstein's famous equation $E = mc^2$, quantum mechanics, and black holes. He then gives readers a crash course in string theory and the core ideas behind it. In plain English and with a minimum of mathematics, Gubser covers strings, branes, string dualities, extra dimensions, curved spacetime, quantum fluctuations, symmetry, and supersymmetry. He describes efforts to link string theory to experimental physics and uses analogies that nonscientists can understand. How does Chopin's Fantasia-Impromptu relate to quantum mechanics? What would it be like to fall into a black hole? Why is dancing a waltz similar to contemplating a string duality? Find out in the pages of this book. The Little Book of String Theory is the essential, most up-to-date beginner's guide to this elegant, multidimensional field of physics.

ATOMIC HABITS

AN EASY & PROVEN WAY TO BUILD GOOD HABITS & BREAK BAD ONES

Penguin The #1 New York Times bestseller. Over 4 million copies sold! Tiny Changes, Remarkable Results No matter your goals, Atomic Habits offers a proven framework for improving--every day. James Clear, one of the world's leading experts on habit formation, reveals practical strategies that will teach you exactly how to form good habits, break bad ones, and master the tiny behaviors that lead to remarkable results. If you're having trouble changing your habits, the problem isn't you. The problem is your system. Bad habits repeat themselves again and again not because you don't want to change, but because you have the wrong system for change. You do not rise to the level of your goals. You fall to the level of your systems. Here, you'll get a proven system that can take you to new heights. Clear is known for his ability to distill complex topics into simple behaviors that can be easily applied to daily life and work. Here, he draws on the most proven ideas from biology, psychology, and neuroscience to create an easy-to-understand guide for making good habits inevitable and bad habits impossible. Along the way, readers will be inspired and entertained with true stories from Olympic gold medalists, award-winning artists, business leaders, life-saving physicians, and star comedians who have used the science of small habits to master their craft and vault to the top of their field. Learn how to: • make time for new habits (even when life gets crazy); • overcome a lack of motivation and willpower; • design your environment to make success easier; • get back on track when you fall off course; ...and much more. Atomic Habits will reshape the way you think about progress and success, and give you the tools and strategies you need to transform your habits--whether you are a team looking to win a championship, an organization hoping to redefine an industry, or simply an individual who wishes to quit smoking, lose weight, reduce stress, or achieve any other goal.

SHAKESPEARE AND COMPLEXITY THEORY

Taylor & Francis In this new monograph, Claire Hansen demonstrates how Shakespeare can be understood as a complex system, and how complexity theory can provide compelling and original readings of Shakespeare's plays. The book utilises complexity theory to illuminate early modern theatrical practice, Shakespeare pedagogy, and the phenomenon of the Shakespeare 'myth'. The monograph re-evaluates Shakespeare, his plays, early modern theatre, and modern classrooms as complex systems, illustrating how the lens of complexity offers an enlightening new perspective on diverse areas of Shakespeare scholarship. The book's interdisciplinary approach enriches our understanding of Shakespeare and lays the foundation for complexity theory in Shakespeare studies and the humanities more broadly.

CASE STUDIES IN SYSTEM OF SYSTEMS, ENTERPRISE SYSTEMS, AND COMPLEX SYSTEMS ENGINEERING

CRC Press Suitable as a reference for industry practitioners and as a textbook for classroom use, Case Studies in System of Systems, Enterprise Systems, and Complex Systems Engineering provides a clear understanding of the principles and practice of system of systems engineering (SoSE), enterprise systems engineering (ESE), and complex systems engineering (CSE). Multiple domain practitioners present and analyze case studies from a range of applications that demonstrate underlying principles and best practices of transdisciplinary systems engineering. A number of the case studies focus on addressing real human needs. Diverse approaches such as use of soft systems skills are illustrated, and other helpful techniques are also provided. The case studies describe, examine, analyze, and assess applications across a range of domains, including: Engineering management and systems engineering education Information technology business transformation and infrastructure engineering Cooperative framework for and cost management in the construction industry Supply chain modeling and decision analysis in distribution centers and logistics International development assistance in a foreign culture of education Value analysis in generating electrical energy through wind power Systemic risk and reliability assessment in banking Assessing emergencies and reducing errors in hospitals and health care systems Information fusion and operational resilience in disaster response systems Strategy and investment for capability developments in defense acquisition Layered, flexible, and decentralized enterprise architectures in military systems Enterprise transformation of the air traffic management and transport network Supplying you with a better

understanding of SoSE, ESE, and CSE concepts and principles, the book highlights best practices and lessons learned as benchmarks that are applicable to other cases. If adopted correctly, the approaches outlined can facilitate significant progress in human affairs. The study of complex systems is still in its infancy, and it is likely to evolve for decades to come. While this book does not provide all the answers, it does establish a platform, through which analysis and knowledge application can take place and conclusions can be made in order to educate the next generation of systems engineers.

SMART MIXES FOR TRANSBOUNDARY ENVIRONMENTAL HARM

Cambridge University Press Analyzes how combinations of instruments at different levels of government, or smart mixes, can effectively regulate transboundary environmental harm.

RESEARCH METHODS FOR COMPLEXITY THEORY IN APPLIED LINGUISTICS

Multilingual Matters This book provides practical guidance on research methods and designs that can be applied to Complex Dynamic Systems Theory (CDST) research. It discusses the contribution of CDST to the field of applied linguistics, examines what this perspective entails for research and introduces practical methods and templates, both qualitative and quantitative, for how applied linguistics researchers can design and conduct research using the CDST framework. Introduced in the book are methods ranging from those in widespread use in social complexity, to more familiar methods in use throughout applied linguistics. All are inherently suited to studying both dynamic change in context and interconnectedness. This accessible introduction to CDST research will equip readers with the knowledge to ensure compatibility between empirical research designs and the theoretical tenets of complexity. It will be of value to researchers working in the areas of applied linguistics, language pedagogy and educational linguistics and to scholars and professionals with an interest in second/foreign language acquisition and complexity theory.

UN PEACE OPERATIONS AND INTERNATIONAL POLICING

NEGOTIATING COMPLEXITY, ASSESSING IMPACT AND LEARNING TO LEARN

Routledge This book addresses the important question of how the United Nations (UN) should monitor and evaluate the impact of police in its peace operations. UN peace operations are a vital component of international conflict management. Since the end of the Cold War one of the foremost developments has been the rise of UN policing (UNPOL). Instances of UNPOL action have increased dramatically in number and have evolved from passive observation to participation in frontline law enforcement activities. Attempts to ascertain the impact of UNPOL activities have proven inadequate. This book seeks to redress this lacuna by investigating the ways in which the effects of peace operations - and UNPOL in particular - are monitored and evaluated. Furthermore, it aims to develop a framework, tested through field research in Liberia, for Monitoring and Evaluation (M&E) that enables more effective impact assessment. By enhancing the relationship between field-level M&E and organisational learning this research aims to make an important contribution to the pursuit of more professional and effective UN peace operations. This book will be of much interest to students of peace operations, conflict management, policing, security studies and IR in general.

SAILING THE OCEAN OF COMPLEXITY

LESSONS FROM THE PHYSICS-BIOLOGY FRONTIER

Oxford University Press "Both superb and essential... Succi, with clarity and wit, takes us from quarks and Boltzmann to soft matter - precisely the frontier of physics and life." **Stuart Kauffman, MacArthur Fellow, Fellow of the Royal Society of Canada, Gold Medal Accademia Lincea** We live in a world of utmost complexity, outside and within us. There are thousand of billions of billions of stars out there in the Universe, a hundred times more molecules in a glass of water, and another hundred times more in our body, all working in sync to keep us alive and well. At face value, such numbers spell certain doom for our ability to make any sense at all of the world around and within us. And yet, they don't. Why, and how - this book endeavours to provide an answer to these questions with specific reference to a selected window of the physics-biology interface. The story unfolds over four main Parts. Part I provides an introduction to the main organizational principles which govern the functioning of complex systems in general, such as nonlinearity, nonlocality and ultra-dimensions. Part II deals with thermodynamics, the science of change, starting with its historical foundations laid down in the 19th century, and then moving on to its modern and still open developments in connection with biology and cosmology. Part III deals with the main character of this book, free energy, and the wondrous scenarios opened up by its merger with the modern tools of statistical physics. It also describes the basic facts about soft matter, the state of matter most relevant to biological organisms. Finally, Part IV discusses the

connection between time and complexity, and its profound implications on the human condition, i.e. the one-sided nature of time and the awareness of human mortality. It concludes with a few personal considerations about the special place of emotions and humility in science.

CONTEMPORARY ISSUES IN INTERNATIONAL ARBITRATION AND MEDIATION

THE FORDHAM PAPERS (2011)

Martinus Nijhoff Publishers The 2011 volume of Contemporary Issues in International Arbitration and Mediation - The Fordham Papers is a collection of important works in the field written by the speakers at the 2011 Fordham Law School Conference on International Arbitration and Mediation.

PLATO'S PIGS AND OTHER RUMINATIONS

ANCIENT GUIDES TO LIVING WITH NATURE

Cambridge University Press The Greeks and Romans have been charged with destroying the ecosystems within which they lived. In this book, however, M. D. Usher argues rather that we can find in their lives and thought the origin of modern ideas about systems and sustainability, important topics for humans today and in the future. With chapters running the gamut of Greek and Roman experience - from the Presocratics and Plato to Roman agronomy and the Benedictine Rule - Plato's Pigs brings together unlikely bedfellows, both ancient and modern, to reveal surprising connections. Lively prose and liberal use of anecdotal detail, including an afterword about the author's own experiments with sustainable living on his sheep farm in Vermont, add a strong authorial voice. In short, this is a unique, first-of-its-kind book that is sure to be of interest to anyone working in Classics, environmental studies, philosophy, ecology, or the history of ideas.

EXPLORING THE IMPLICATIONS OF COMPLEXITY THINKING FOR TRANSLATION STUDIES

Routledge Exploring the Implications of Complexity Thinking for Translation Studies considers the new link between translation studies and complexity thinking. Edited by leading scholars in this emerging field, the collection builds on and expands work done in complexity thinking in translation studies over the past decade. In this volume, the contributors address a variety of implications that this new approach holds for key concepts in Translation Studies such as source vs. target texts, translational units, authorship, translatorship, for research topics including translation data, machine translation, communities of practice, and for research methods such as constraints and the emergence of trajectories. The various chapters provide valuable information as to how research methods informed by complexity thinking can be applied in translation studies. Presenting theoretical and methodological contributions as well as case studies, this volume is of interest to advanced students, academics, and researchers in translation and interpreting studies, literary studies, and related areas.

HANDBOOK ON COMPLEXITY AND PUBLIC POLICY

Edward Elgar Publishing 'Over recent years Complexity Science has revealed to us new limits to our possible knowledge and control in social, cultural and economic systems. Instead of supposing that past statistics and patterns will give us predictable outcomes for possible actions, we now know the world is, and will always be, creative and surprising. Continuous structural evolution within such systems may change the mechanisms, descriptors, problems and opportunities, often negating policy aims. We therefore need to redevelop our thinking about interventions, policies and policy making, moving perhaps to a humbler, more 'learning' approach. In this Handbook, leading thinkers in multiple domains set out these new ideas and allow us to understand how these new ideas are changing policymaking and policies in this new era.' - Peter M Allen, Cranfield University, UK

COMPLEXITY ECONOMICS

ECONOMIC GOVERNANCE, SCIENCE AND POLICY

Routledge Our socio-economic innovation ecosystem is riddled with ever-increasing complexity, as we are faced with more frequent and intense shocks, such as COVID-19. Unfortunately, addressing complexity requires a different kind of economic governance. There is increasing pressure on economics to not only going beyond its traditional

mainstream boundaries but also to tackle real-world problems such as fostering structural change, enhancing sustained growth, promoting inclusive development in the era of the digital economy, and boosting green growth, while addressing the divide between the financial sector and the real economy. This book demonstrates how to apply complexity science to economics, in an effective and instructive way, in the interest of life-enhancing policies. The book revolves around the non-negligible problem of why economics, to date, seems to be insufficient in guiding economic governance to navigate through real and ever-intensifying complex socio-economic and environmental challenges. With its interdisciplinary approach, the book scans the nuanced nexus between complexity and economics by incorporating, as well as transcending the state-of-the-art literature. It identifies ways to trigger opportunities for behaviour change in the economic profession with respect to how to teach and what, introducing and developing further complexity economics thinking with the configuration of its main principles and outlining the silhouette of next-generation economic governance. The book deciphers recommendations both for economic theory, practice, and education and economic governance. It will be of interest to students, scholars, academics, think tank researchers and economic policy practitioners at the national and/or supranational level.

GRAMMAR OF COMPLEXITY: FROM MATHEMATICS TO A SUSTAINABLE WORLD

World Scientific The book is an introduction, for both graduate students and newcomers to the field of the modern theory of mesoscopic complex systems, time series, hypergraphs and graphs, scaled random walks, and modern information theory. As these are applied for the exploration and characterization of complex systems. Our self-consistent review provides the necessary basis for consistency. We discuss a number of applications such diverse as urban structures and musical compositions. Contents: Perplexity of Complexity Preliminaries: Permutations, Partitions, Probabilities and Information Theory of Extreme Events Statistical Basis of Inequality and Discounting the Future and Inequality Elements of Graph Theory. Adjacency, Walks, and Entropies Exploring Graph Structures by Random Walks We Shape Our Buildings: Thereafter They Shape Us Complexity of Musical Harmony Readership: Graduate student in information theory, complex systems and mathematical modeling. Keywords: Complex Systems and Processes; Extreme Events; Discounting the Future and Inequality; Urban Environments; Complexity of Musical Harmony Review: Key Features: The book provides the unique treatment of the modern theory of mesoscopic complex systems, time series, hypergraphs and graphs, scaled random walks, and modern information theory as applied for exploration and characterization of complex systems The book shows how the concepts of complexity theory is applicable to the problem of survival, urban studies, income inequality, musical harmony The book might be used as recommended reading for a course

STRUCTURE, CULTURE AND AGENCY

SELECTED PAPERS OF MARGARET ARCHER

Routledge Professor Margaret Archer is a leading critical realist and major contemporary social theorist. This edited collection seeks to celebrate the scope and accomplishments of her work, distilling her theoretical and empirical contributions into four sections which capture the essence and trajectory of her research over almost four decades. Long fascinated with the problem of structure and agency, Archer's work has constituted a decade-long engagement with this perennial issue of social thought. However, in spite of the deep interconnections that unify her body of work, it is rarely treated as a coherent whole. This is doubtless in part due to the unforgiving rigour of her arguments and prose, but also a byproduct of sociology's ongoing compartmentalisation. This edited collection seeks to address this relative neglect by collating a selection of papers, spanning Archer's career, which collectively elucidate both the development of her thought and the value that can be found in it as a systematic whole. This book illustrates the empirical origins of her social ontology in her early work on the sociology of education, as well as foregrounding the diverse range of influences that have conditioned her intellectual trajectory: the systems theory of Walter Buckley, the neo-Weberian analysis of Lockwood, the critical realist philosophy of Roy Bhaskar and, more recently, her engagement with American pragmatism and the Italian school of relational sociology. What emerges is a series of important contributions to our understanding of the relationship between structure, culture and agency. Acting to introduce and guide readers through these contributions, this book carries the potential to inform exciting and innovative sociological research.

COMPLEXITY ECONOMICS

BUILDING A NEW APPROACH TO ANCIENT ECONOMIC HISTORY

Springer Nature Economic archaeology and ancient economic history have boomed the past decades. The former thanks to greatly enhanced techniques to identify, collect, and interpret material remains as proxies for economic interactions and performance; the latter by embracing the frameworks of new institutional economics. Both disciplines, however,

still have great difficulty talking with each other. There is no reliable method to convert ancient proxy-data into the economic indicators used in economic history. In turn, the shared cultural belief-systems underlying institutions and the symbolic ways in which these are reproduced remain invisible in the material record. This book explores ways to bring both disciplines closer together by building a theoretical and methodological framework to evaluate and integrate archaeological proxy-data in economic history research. Rather than the linear interpretations offered by neoclassical or neomalthusian models, we argue that complexity economics, based on system theory, offers a promising way forward.

MASTERCLASS IN GEOGRAPHY EDUCATION

TRANSFORMING TEACHING AND LEARNING

Bloomsbury Publishing MasterClass in Geography Education provides a comprehensive exploration of the major themes in geography education research and pedagogy, drawing on international research. The editor draws together a variety of professional, academic and practitioner perspectives to support professional development of geography teachers. The book incorporates discussion of the place of subject knowledge in geography, the role and function of research in geography education and the relationship between research and practice. Topics covered include: - research and professional practice - constructing geographical knowledge - ethical considerations - carrying out research projects MasterClass in Geography Education will be essential reading for all studying the teaching and learning of geography on PGCE and Education MEd/MA courses.

GENERATIVE EMERGENCE

A NEW DISCIPLINE OF ORGANIZATIONAL, ENTREPRENEURIAL, AND SOCIAL INNOVATION

Oxford University Press How do organizations become created? Entrepreneurship scholars have debated this question for decades, but only recently have they been able to gain insights into the non-linear dynamics that lead to organizational emergence, through the use of the complexity sciences. Written for social science researchers, *Generative Emergence* summarizes these literatures, including the first comprehensive review of each of the 15 complexity science disciplines. In doing so, the book makes a bold proposal for a discipline of Emergence, and explores one of its proposed fields, namely Generative Emergence. The book begins with a detailed summary of its underlying science, dissipative structures theory, and rigorously maps the processes of order creation discovered by that science to identify a 5-phase model of order creation in entrepreneurial ventures. The second half of the book presents the findings from an experimental study that tested the model in four fast-growth ventures through a year-long, week-by-week longitudinal analysis of their processes, based on over 750 interviews and 1000 hours of on-site observation. These data, combined with reports from over a dozen other studies, confirm the dynamics of the 5-phase model in multiple contexts. By way of conclusion, the book explores how the model of Generative Emergence could be applied to enact emergence within and across organizations.

ECONOMETRIC MICRO- AND MACROECONOMIC MODELLING IN ROMANIA:FINDING SIMPLICITY IN COMPLEXITY AND GENERATING STATISTICAL SIMPLEXITY

Infinite Study This paper describes, in its introduction, its main objective and some of its investigative premises,emphasizing the need to address micro- and macroeconomic models using the major principles of statistical thinking. A central section is devoted to the concepts of complexity and simplicity, rediscovering the paradox of approaching them simultaneously and the paradigm of simplicity, first formulated by Jeffrey Kluger.

MOTIVATIONAL DYNAMICS IN LANGUAGE LEARNING

Multilingual Matters This landmark volume offers a collection of conceptual papers and data-based research studies that investigate the dynamics of language learning motivation from a complex dynamic systems perspective. The chapters seek to answer the question of how we can understand motivation if we perceive it as a continuously changing and evolving entity rather than a fixed learner trait.

SWARMING LANDSCAPES

THE ART OF DESIGNING FOR CLIMATE ADAPTATION

Springer Science & Business Media This book advocates a fresh approach to planning that anticipates, rather than reacts to, the changes in climate currently in process. Today's spatial planning procedures rely on historical evidence instead of preparing for factors that by definition lie in the future, yet which are relatively uncontroversial: shortages of water, sea level rise and rises in average temperatures being but three examples. Arguing for more flexibility, the contributors view 'complexity' as the key to transforming the way we plan in order to better equip us to face uncertainties about our future environment.

SWARM PLANNING

THE DEVELOPMENT OF A PLANNING METHODOLOGY TO DEAL WITH CLIMATE ADAPTATION

Springer Science & Business Media This book shows that the problem of climate adaptation, which is described in social planning terms as 'wicked,' is at odds with the contemporary practice of spatial planning. The author proposes a new adjusted framework which is more adaptable to unpredictable, wicked, dynamic and non-linear processes. The inspiration for this new method is the behaviour of swarms: bees, ants, birds and fish are capable of self-organization, which enables the system to become less vulnerable to sudden environmental changes. The framework proposed in Swarm Planning consists of these four elements: Two levels of complexity, the first being the whole system and the second its individual components. Each of these has different attributes for adapting to change. Five layers, consisting of networks, focal points, unplanned space, natural resources and emerging occupation patterns. Each layer has its own spatial dynamic, and each is connected to a spatial scale. Non-linear processes, which emerge in different parts of the framework and include emerging patterns, connectedness and tipping points among others. Two planning processes; the first, 'from small to large' works upward from the slowest changing elements to more rapidly-changing ones. The second, 'on the list of partners' addresses each layer from networks through emerging occupation patterns. Swarm Planning applies this framework to a series of pilot studies, and appraises its performance using criteria for an adaptive landscape. The results show that the use of the Swarm Planning Framework reduces the vulnerability of landscapes as well as the impact of climate hazards and disasters, improves response to unexpected hazards and contains adaptation strategies. "This book is a must for planners in government and the private sector as it outlines the concept, strategies and techniques for swarm planning. It is also an important guide for policymakers looking to engage communities in a dialogue about the adaptation planning process." Professor John Martin, La Trobe University "The ultimate value of the book lies in encouraging the planning community to consider options that go far beyond those offered by business-as-usual planning methodologies developed for a set of operating conditions that are fast becoming obsolete. As such it makes an important and much needed contribution to the field." Assistant Professor Dr. Chrisna du Plessis, University of Pretoria

TRIVIALIZATION AND PUBLIC OPINION

SLOGANS, SUBSTANCE, AND STYLES OF THOUGHT IN THE AGE OF COMPLEXITY

Springer Centering on public discourse and its fundamental lapses, this book takes a unique look at key barriers to social and political advancement in the information age. Public discourse is replete with confident, easy to manage claims, intuitions, and other shortcuts; outstanding of these is trivialization, the trend to distill multifaceted dilemmas to binary choices, neglect the big picture, gloss over alternatives, or filter reality through a lens of convenience—leaving little room for nuance and hence debate. Far from superficial, such lapses are symptoms of deeper, intrinsically connected shortcomings inviting further attention. Focusing primarily on industrialized democracies, the authors take their readers on a transdisciplinary journey into the world of trivialization, engaging as they do so the intricate issues borne of a modern environment both enabled and constrained by technology. Ultimately, the authors elaborate upon the emerging counterweights to conventional worldviews and the paradigmatic alternatives that promise to help open new avenues for progress.

THE SAGE HANDBOOK OF DIGITAL DISSERTATIONS AND THESES

SAGE PUBLICATIONS

SAGE This handbook sets out the processes and products of 'digital' research. It is a theoretical and practical guide on how to undertake and navigate advanced research in the arts,

humanities and social sciences. Topics covered include: - how to make research more accessible - the use of search engines and other sources to determine the scope of work - research training for students - what will theses, dissertations and research reports look like in ten years' time? - the storing and archiving of such research - ethics and methodologies in the field - intercultural issues The editors focus on advances in arts and practice-based doctorates, and their application in other fields and disciplines. The contributions chart new territory for universities, research project directors, supervisors and research students regarding the nature and format of Masters and doctoral work, as well as research projects. This handbook is an essential reference for researchers, supervisors and administrators on how to conduct and evaluate research projects in a digital and multimodal age. Richard Andrews is Professor in English, Faculty of Children and Learning, Institute of Education. Erik Borg is a Senior Lecturer at Coventry University's Centre for Academic Writing. Stephen Boyd Davis is Research Leader in the School of Design, Royal College of Art. Myrrh Domingo is Visiting Assistant Professor in English Education and Literacy Education at New York University. Jude England is Head of Social Sciences at the British Library.

SYSTEMS THINKING FOR SCHOOL LEADERS

HOLISTIC LEADERSHIP FOR EXCELLENCE IN EDUCATION

Springer This book presents a new approach to school leadership - Holistic School Leadership, whereby school leaders lead schools through systems-thinking concepts and procedures. Facing growing complexity, change and diversity, school leaders need to regularly apply the systems view and perform at the systems level. This book proposes a holistic approach, providing school leaders with systemic principles of action for excellence in education. "What a wonderful book - once I started it, I couldn't put it down. The book masterfully makes a systems leadership perspective accessible and grounded in the reality of the daily life of educators. Holistic School Leadership is a "must read" for anyone who has the responsibility for making schools better places, from professors to emerging teacher leaders." Karen Seashore (Louis), Regents Professor of Organizational Leadership, Policy and Development, University of Minnesota "Shaked and Schechter have constructed a much needed bridge to the future of educational leadership, a future of systemic thinking and positivity." Joseph Murphy, Professor of Education and Public Policy, Peabody College of Education, Vanderbilt University "Shaked and Schechter offer a comprehensive yet concise account of the meaning of systems thinking. The authors systematically develop their Holistic School Leadership approach with compelling examples, carefully attending to the perennial challenge of implementation. Important reading for scholars and practitioners of school leadership and management!" James P. Spillane, Olin Professor in Learning and Organizational Change, Northwestern University "This is the most important book on systems thinking since Senge's (1990) seminal work on learning organizations. Shaked and Schechter demonstrate the critical and practical utility of systems thinking for school leaders—a must read for all reflective practitioners." Wayne K. Hoy, Professor Emeritus, The Ohio State University. "Holistic School Leadership provides an innovative and exciting look into a new perspective on educational leadership that holds tremendous potential in reshaping educational research, policy, and practice. The idea of interdependence alone makes this powerful new book required reading for anyone concerned with the future of education and educational leadership in particular. Give yourself, your colleagues, your students, and your system the gift of the wisdom in this book." Alan J. Daly, Chair and Professor, Department of Education Studies, University of California, San Diego "In this informative book, Shaked and Schechter offer a fresh application of systems thinking to schools and to the work of school leaders. This book is a useful addition to the bookshelves of both those who prepare and those who support school leaders." Megan Tschannen-Moran, Professor of Educational Leadership, College of William and Mary

SUSTAINABLE ENERGY LANDSCAPES

DESIGNING, PLANNING, AND DEVELOPMENT

CRC Press In the near future the appearance and spatial organization of urban and rural landscapes will be strongly influenced by the generation of renewable energy. One of the critical tasks will be the re-integration of these sustainable energy landscapes into the existing environment—which people value and want to preserve—in a socially fair, environmentally sound, and economically feasible manner. Accordingly, *Sustainable Energy Landscapes: Designing, Planning, and Development* focuses on the municipal and regional scale, where energy-conscious interventions are effective, and stakeholders can participate actively in the transition process. This book presents state-of-the-art knowledge in the exciting new field of sustainable energy landscapes. It bridges the gap between theory and fundamental research on the one hand, and practice and education on the other. The chapters—written by experts in their fields—present a selection of interdisciplinary, cutting-edge projects from across the world, illustrating the inspiring challenge of developing sustainable energy landscapes. They include unique case studies from Germany, Taiwan, the United Kingdom, Canada, Denmark, Austria, Italy, and the United States. The editors and team of contributing authors aim to inspire readers, providing a comprehensive overview of sustainable energy landscapes, including principles, concepts, theories,

and examples. The book describes various methods, such as energy potential mapping and heat mapping, multicriteria decision analysis, energy landscape visualization, and employing exergy and carbon models. It addresses how to quantify the impact of energy transition both on landscape quality and energy economy, issues of growing importance. The text infuses readers with enthusiasm to promote further research and action toward the important goal of building energy landscapes for a sustainable future.

THE IDEA OF INTERNATIONAL HUMAN RIGHTS LAW

Oxford University Press International human rights law has emerged as an academic subject in its own right, separate from, but still related to international law. This book explains the distinctive nature of this discipline by examining the influence of the idea of human rights on general international law. Rather than make use of a particular moral philosophy or political theory, it explains human rights by examining the way the term is deployed in legal practice, on the understanding that words are given meaning through their use. Relying on complexity theory to make sense of the legal practice of the United Nations, the core human rights treaties, and customary international law, the work demonstrates the emergence of the moral concept of human rights as a fact of the social world. It reveals the dynamic nature of this concept, and the influence of the idea on the legal practice, a fact that explains the fragmentation of international law and special nature of international human rights law.

COSMOLOGICAL THEORIES OF VALUE

SCIENCE, PHILOSOPHY, AND MEANING IN COSMIC EVOLUTION

Springer Nature Building from foundations of modern science and cosmic evolution, as well as psychological and philosophical perspectives of value and meaning, this book explores some of humanity's biggest questions: · Is the Universe "about something"? · What might be roles for life and intelligence in cosmic evolution? · How might we think about value, meaning, purpose, and ethics in a cosmic evolutionary context? The author explores how the sciences of relativity and quantum theory, combined with cosmic evolution and philosophical traditions such as process philosophy, contribute to the development of a broad "relationalist framework". That framework helps inform perspectives such as "scientific minimalism" and "cosmological theories of value". Cosmological Reverence, Cosmocultural Evolution, and the Connection-Action Principle are explored as examples of cosmological theories of value, all of which help inform how we might think about ethics, value, and meaning in a cosmic context - including application to the search for extraterrestrial life and the future of intelligence in the universe. This book will benefit a diverse range of practitioners in philosophy, science, and policy, including interdisciplinary fields such as Science and Society and cultural evolution studies. From the Foreword: "This volume ranges from the sciences of cosmic evolution, relativity, and quantum mechanics, to value theory and process philosophy, all with the goal of exploring how they relate to humanity in the sense of worldviews and meaning. With his three cosmological theories of value, Lupisella goes beyond the bounds of most books on naturalism, and into fundamental questions about the nature of the universe and our relation to it. To read Lupisella is to have a mind-boggling experience, to want to race to references, to want to know more." Steven J. Dick Former Baruch S. Blumberg NASA/ Library of Congress Chair in Astrobiology Former NASA Chief Historian

ECONOPHYSICS OF AGENT-BASED MODELS

Springer Science & Business Media The primary goal of this book is to present the research findings and conclusions of physicists, economists, mathematicians and financial engineers working in the field of "Econophysics" who have undertaken agent-based modelling, comparison with empirical studies and related investigations. Most standard economic models assume the existence of the representative agent, who is "perfectly rational" and applies the utility maximization principle when taking action. One reason for this is the desire to keep models mathematically tractable: no tools are available to economists for solving non-linear models of heterogeneous adaptive agents without explicit optimization. In contrast, multi-agent models, which originated from statistical physics considerations, allow us to go beyond the prototype theories of traditional economics involving the representative agent. This book is based on the Econophys-Kolkata VII Workshop, at which many such modelling efforts were presented. In the book, leading researchers in their fields report on their latest work, consider recent developments and review the contemporary literature.

THE ROAD TO RUIN

THE GLOBAL ELITES' SECRET PLAN FOR THE NEXT FINANCIAL CRISIS

Penguin The bestselling author of *The Death of Money* and *Currency Wars* reveals the global elites' dark effort to hide a coming catastrophe from investors in *The Road to Ruin*, now a

National Bestseller. A drumbeat is sounding among the global elites. The signs of a worldwide financial meltdown are unmistakable. This time, the elites have an audacious plan to protect themselves from the fallout: hoarding cash now and locking down the global financial system when a crisis hits. Since 2014, international monetary agencies have been issuing warnings to a small group of finance ministers, banks, and private equity funds: the U.S. government's cowardly choices not to prosecute J.P. Morgan and its ilk, and to bloat the economy with a \$4 trillion injection of easy credit, are driving us headlong toward a cliff. As Rickards shows in this frightening, meticulously researched book, governments around the world have no compunction about conspiring against their citizens. They will have stockpiled hard assets when stock exchanges are closed, ATMs shut down, money market funds frozen, asset managers instructed not to sell securities, negative interest rates imposed, and cash withdrawals denied. If you want to plan for the risks ahead, you will need Rickards's cutting-edge synthesis of behavioral economics, history, and complexity theory. It's a guidebook to thinking smarter, acting faster, and living with the comforting knowledge that your wealth is secure. The global elites don't want this book to exist. Their plan to herd us like sheep to the slaughter when a global crisis erupts—and, of course, to maintain their wealth—works only if we remain complacent and unaware. Thanks to *The Road to Ruin*, we don't need to be. "If you are curious about what the financial Götterdämmerung might look like you've certainly come to the right place... Rickards believes -- and provides tantalizing snippets of private conversations with those who dwell in the very eye-in-the-pyramid -- that the current world monetary and financial system is on the verge of insolvency and that the world financial elites already have a successor system for which they are laying the groundwork." --Ralph Benko, Forbes

CHRISTIAN TOURIST ATTRACTIONS, MYTHMAKING, AND IDENTITY FORMATION

Bloomsbury Publishing **Christian Tourist Attractions, Mythmaking, and Identity Formation** examines a sampling of contemporary Christian tourist attractions that position visitors as the inheritors of ancient, sacred traditions and make claims about the truth of the historical narratives that they promote. Rather than approaching these attractions as sacred expressions of religious experience or as uncontested accounts of history, the book applies recent work on mythmaking and identity formation to argue that these presentations of the past function as strategic discourses that serve material concerns in the present. From an approach informed by social and materialist theories of religion, the volume draws upon a variety of methodological approaches that enable readers to understand the often-bewildering array of objects, claims, demands, and activities (not to mention the seemingly endless array of gifts and personal items available for purchase) that appear at attractions including Ark Encounter, the Creation Museum, the Holy Land Experience, Bible Walk Museum, Christian Zionist tours of Israel, and the recently opened Museum of the Bible. Discourse analysis, practice theory, rhetorical criticism, and embodied theories of cognition help make sense not only of the Christian tourist attractions under examination but also of the ways that "religion" is entangled with contemporary social, political, and economic interests more broadly.

COMPLEX SYSTEMS DESIGN & MANAGEMENT

PROCEEDINGS OF THE FIFTH INTERNATIONAL CONFERENCE ON COMPLEX SYSTEMS DESIGN & MANAGEMENT CSD&M 2014

Springer This book contains all refereed papers that were accepted to the fifth edition of the « Complex Systems Design & Management » (CSD&M 2014) international conference which took place in Paris (France) on the November 12-14, 2014. These proceedings cover the most recent trends in the emerging field of complex systems sciences & practices from an industrial and academic perspective, including the main industrial domains (aeronautic & aerospace, transportation & systems, defense & security, electronics & robotics, energy & environment, health & welfare services, software & e-services), scientific & technical topics (systems fundamentals, systems architecture & engineering, systems metrics & quality, systemic tools) and system types (transportation systems, embedded systems, software & information systems, systems of systems, artificial ecosystems). The CSD&M 2014 conference is organized under the guidance of the CESAMES non-profit organization, address: CESAMES, 8 rue de Hanovre, 75002 Paris, France.

CHILDREN AND PEACE

FROM RESEARCH TO ACTION

Springer Nature This open access book brings together discourse on children and peace from the 15th International Symposium on the Contributions of Psychology to Peace, covering issues pertinent to children and peace and approaches to making their world safer, fairer and more sustainable. The book is divided into nine sections that examine traditional themes (social construction and deconstruction of diversity, intergenerational transitions and memories of war, and multiculturalism), as well as contemporary issues such as Europe's "migration crisis", radicalization and violent extremism, and violence in families, schools and communities. Chapters contextualize each issue within specific social

ecological frameworks in order to reflect on the multiplicity of influences that affect different outcomes and to discuss how the findings can be applied in different contexts. The volume also provides solutions and hope through its focus on youth empowerment and peacebuilding programs for children and families. This forward-thinking volume offers a multitude of views, approaches, and strategies for research and activism drawn from peace psychology scholars and United Nations researchers and practitioners. This book's multi-layered emphasis on context, structural determinants of peace and conflict, and use of research for action towards social cohesion for children and youth has not been brought together in other peace psychology literature to the same extent. *Children and Peace: From Research to Action* will be a useful resource for peace psychology academics and students, as well as social and developmental psychology academics and students, peace and development practitioners and activists, policy makers who need to make decisions about the matters covered in the book, child rights advocates and members of multilateral organizations such as the UN.

FUNCTION-BASED SPATIALITY AND THE DEVELOPMENT OF KOREAN COMMUNITIES IN JAPAN

A COMPLEX ADAPTIVE SYSTEMS THEORY APPROACH

Lexington Books *Function-Based Spatiality and the Development of Korean Communities in Japan* addresses the impact of urban environments on the development of Korean communities in Japan. It takes into consideration the historically developed functions of the cities in their regional, national, and international spheres and shows the relevance of those functions to the Korean communities of each city. This book will be of interest not only to scholars of the Korean minority of Japan but also to all who study the relationships between spatial functions and immigration.

THE ROUTLEDGE COMPANION TO ORGANIZATIONAL CHANGE

Routledge *Organizations change. They grow, they adapt, they evolve. The effects of organizational change are important, varied and complex and analyzing and understanding them is vital for students, academics and researchers in all business schools. The Routledge Companion to Organizational Change offers a comprehensive and authoritative overview of the field. The volume brings together the very best contributors not only from the field of organizational change, but also from adjacent fields, such as strategy and leadership. These contributors offer fresh and challenging insights to the mainstream themes of this discipline. Surveying the state of the discipline and introducing new, cutting-edge themes, this book is a valuable reference source for students and academics in this area.*

INTRINSIC SUSTAINABLE DEVELOPMENT

EPISTEMES, SCIENCE, BUSINESS AND SUSTAINABILITY

World Scientific *Sustainable development sets the agenda for the 21st century. Human technological capability and needs mean that nature is and will be challenged and damaged in many ways. This book offers a solution to sustainable development problems.*

CORPORATE GROUPS AND SHADOW BUSINESS PRACTICES

Cambridge University Press *The uniqueness of this book is its conceptualization of a corporate group as a system of interaction, comprised of nodes, links and internal governance tools. This framework can be used to understand what constitutes a group, based on affiliation-linkages. By increasing our perception of group-structuring we can assess the extent to which existing laws address all variables. If the law does not consider certain variables to be used for identifying groups, a case of shadow business may be identified. Group-transparency is a recurring topic on the regulatory agenda. In this book, three legal domains are analysed questioning whether specific amendments have led to increased group-transparency: the control-definition for consolidated accounts, shareholder-transparency in company law, and major holding disclosure in listed companies. This book identifies deficiencies of the law in obtaining its regulatory objective of group-transparency, and proposes an interpretative solution based on Systems Thinking.*