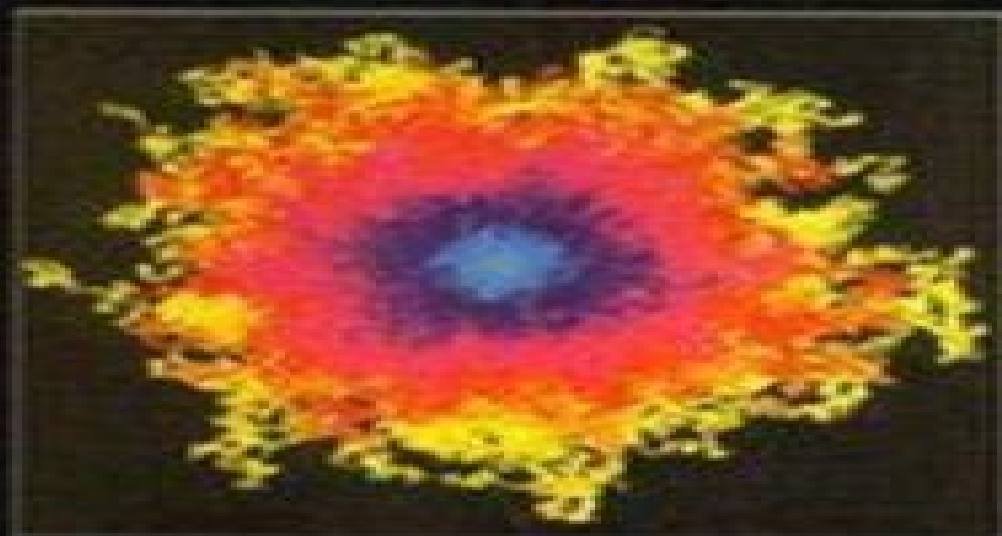


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Fractals in Science



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Fractals In Science An Interdisciplinary Approach

Nima Rezaei



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The Fractal Geometry of the Brain Antonio Di Ieva, 2024-03-12 The new edition of the highly popular The Fractal Geometry of the Brain reviews the most intriguing applications of fractal analysis in neuroscience with a focus on current and future potential limits advantages and disadvantages It brings an understanding of fractals to clinicians and researchers even if they do not have a mathematical background and it serves as a valuable tool for teaching the translational applications of computational fractal based models to both students and scholars As a consequence of the novel research developed at Professor Di Ieva s laboratory and other centers around the world the second edition will explore the use of computational fractal based analysis in many clinical disciplines and different fields of research including neurology and neurosurgery neuroanatomy and psychology magnetoencephalography MEG eye tracking devices for the fractal computational characterization of scanpaths deep learning in image analysis radiomics for the characterization of brain MRIs characterization of neuropsychological and psychiatric diseases and traits signal complexity analysis in time series and functional MRI amongst others

The Art of Fractals Pasquale De Marco, 2025-08-16 Journey into the captivating world of fractals where intricate patterns and self similarity across scales unveil hidden beauty and profound connections to diverse fields Discover the elegance of fractal geometry its applications in science art and technology and its transformative impact on our understanding of the universe This comprehensive and engaging book takes an interdisciplinary approach to exploring fractals delving into their mathematical foundations their manifestations in nature and their practical applications With clear explanations illustrative examples and captivating visuals readers will gain a deep appreciation for the beauty and significance of fractals From the intricate patterns of snowflakes and ferns to the branching structures of trees and lungs fractals are ubiquitous in the natural world They challenge our traditional notions of geometry and offer new insights into the complex phenomena that shape our environment In chemistry fractals provide a framework for understanding the structure and behavior of molecules the dynamics of chemical reactions and the properties of materials In physics fractals help us unravel the mysteries of chaos theory fluid dynamics and the behavior of complex systems Beyond the realm of science fractals have also made a significant impact on art and design Fractal art with its mesmerizing patterns and captivating visuals has become a recognized genre pushing the boundaries of artistic expression Fractals have also found applications in computer graphics animation and architecture inspiring new forms of creative expression and design This book is an indispensable resource for anyone interested in the wonders of fractals Whether you are a scientist artist mathematician or simply someone curious about the hidden patterns of the universe this book will take you on a journey of discovery revealing the profound implications of fractals for our understanding of nature science and art If you like this book write a review

Mathematics of Complexity and Dynamical Systems Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical

systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers

Cancer Treatment: An Interdisciplinary Approach Nima Rezaei, 2024-01-01 Cancer treatment is a challenging issue while the treatment modalities have extended from traditional surgery chemotherapy and radiation therapy to new therapeutic approaches including targeted therapy immunotherapy stem cell transplantation and hormone therapy Therefore an interdisciplinary approach is needed to find a better therapeutic protocols in order to increase the prognosis and quality of life of patients with cancer The second volume of the Interdisciplinary Cancer Research series entitled Cancer Treatment An Interdisciplinary Approach publishes comprehensive volumes on different cancer treatment modalities and presents the most updated and peer reviewed articles on cancer therapy This interdisciplinary series is of special value to researchers and practitioners working on cell biology immunology hematology biochemistry genetics oncology and related fields This is the main concept of Cancer Immunology Project CIP which is a part of Universal Scientific Education and Research Network USERN This interdisciplinary book will be of special value for researchers and clinicians who wish to extend their knowledge on cancer treatment

Computational Science and Its Applications - ICCSA 2006 Osvaldo Gervasi, Vipin Kumar, C.J. Kenneth Tan, David Taniar, Antonio Laganà, Youngsong Mun, Hyunseung Choo, 2006-05-11 The five volume set LNCS 3980 3984 constitutes the refereed proceedings of the International Conference on Computational Science and Its Applications ICCSA 2006 The volumes present a total of 664 papers organized according to the five major conference themes computational methods algorithms and applications high performance technical computing and networks advanced and emerging applications geometric modelling graphics and visualization information systems and information technologies This is Part I

Fractals, Applied Synergetics and Structure Design V. S. Ivanova, V. U. Novikov, A. A. Oksogoev, 2005 Non linear systems behaviours are discussed in this book from the point of new scientific approaches to the interdisciplinary nature of the fractal geometry and synergetics Fractal analysis synergetics methods and mathematical design are considered according to actual problems of condensed media physics mechanics material science and geology

Never-resting microglia: physiological roles in the healthy brain and pathological implications Amanda Sierra, Marie-Eve Tremblay, Hiroaki Wake, 2015-02-11 Microglia are largely known as the major orchestrators of the brain inflammatory

response As such they have been traditionally studied in various contexts of disease where their activation has been assumed to induce a wide range of detrimental effects In the last few years a series of discoveries have challenged the current view of microglia showing their active and positive contribution to normal brain function This Research Topic reviewed the novel physiological roles of microglia in the developing mature and aging brain under non pathological conditions In particular this Research Topic discussed the cellular and molecular mechanisms by which microglia contribute to the formation pruning and plasticity of synapses the regulation of adult neurogenesis as well as hippocampal learning and memory among other important roles Because these novel findings defy our understanding of microglial function in health as much as in disease this Research Topic also summarized the current view of microglial nomenclature phenotypes origin and differentiation and contribution to various brain pathologies Additionally novel imaging approaches and molecular tools to study microglia in their non activated state have been discussed In conclusion this Research Topic sought to emphasize how the current research in neuroscience is challenged by never resting microglia **The Fractal Forest** Nancy D. Lorimer,1994

Proceedings of Fifth International Conference on Soft Computing for Problem Solving Millie Pant,Kusum Deep,Jagdish Chand Bansal,Atulya Nagar,Kedar Nath Das,2016-03-19 The proceedings of SocProS 2015 will serve as an academic bonanza for scientists and researchers working in the field of Soft Computing This book contains theoretical as well as practical aspects using fuzzy logic neural networks evolutionary algorithms swarm intelligence algorithms etc with many applications under the umbrella of Soft Computing The book will be beneficial for young as well as experienced researchers dealing across complex and intricate real world problems for which finding a solution by traditional methods is a difficult task The different application areas covered in the proceedings are Image Processing Cryptanalysis Industrial Optimization Supply Chain Management Newly Proposed Nature Inspired Algorithms Signal Processing Problems related to Medical and Health Care Networking Optimization Problems etc *Advanced Fractal Graph Theory and Applications* P. Tharaniya,G. Jayalalitha,Pethuru Raj,B. Sundaravadivazhagan,2024-12-30 This book explores the dynamic interplay between fractals and graph theory two powerful mathematical tools with vast applications It presents a strategic combination and the synergistic use of these disciplines to address real world problems and challenges The book begins with an introduction to the basic concepts of fractals and graph theory and goes on to explore the applications in various domains including natural phenomena modeling scheduling and network optimisation This book Illustrates the innovative ways fractals and graph theory can be combined laying the groundwork for future applications across various industries Introduces the fundamental concepts and principles of both fractals and graph theory in detail making it accessible to a broad audience including those new to these topics Explores practical applications in image processing network optimisation social network analysis and more demonstrating the real world impact of these mathematical tools Analyses advanced techniques in graph theory such as matching domination and colouring with practical examples and case studies Highlights the latest research advancements in

fractal graph theory showcasing its potential for future developments and applications This book is for students researchers and professionals in mathematics computer science engineering and related fields **Conference Proceedings. The Future of Education** Pixel,2015-07-01 **Polymer Science** ,2002 **Artificial Intelligence and Bioinformatics in Cancer: An Interdisciplinary Approach** Nima Rezaei,2025-05-30 The Artificial Intelligence and Bioinformatics in Cancer An Interdisciplinary Approach is the eighteenth volume of the Interdisciplinary Cancer Research series publishes comprehensive volume on the advances of machine learning and bioinformatics in cancer The volume starts with a chapter on application of artificial intelligence for early diagnosis of cancer Then digital health technologies in cancer care and research is discussed Unveiling cancer complexity machine learning insights into multi omics data and the role of integrated bioinformatics in cancer research are also discussed In silico and biophysical approaches in cancer research and in silico methods and targeted receptors used in cancer studies are explained in the following chapters The modeling uncertain growth and diffusion in cancer tumors with heterogeneous cell mutations imaging tumor metabolism and its heterogeneity with special focus on radiomics and artificial intelligence are also discussed Mathematical modeling of cancer tumor dynamics as well as recent advances in artificial intelligence for cancer treatment are presented while signature based drug repositioning for drug discovery employing machine learning tools is also discussed After a chapter on mathematical analysis of cancer tumor models the subsequent chapters discuss on the role of artificial intelligence in colorectal cancer breast cancer lung cancer brain tumor and cervical cancer This is the main concept of Cancer Immunology Project CIP which is a part of Universal Scientific Education and Research Network USERN This interdisciplinary book will be of special value for oncologists who wish to have an update on application of artificial intelligence in diagnosis and treatment of cancers

General Technical Report NC. ,1981 *Fractal Analysis and Synergetics of Catalysis in Nanosystems* G. V. Kozlov,Gennadiĭ Efremovich Zaikov,2008 Nanochemistry is a science connected with obtaining and studying of physical chemical properties of particles having sizes on the nanometer scale This book addresses polymer synthesis which according to Melikhov's classification is automatically part of nanochemistry This is determined as far as polymeric macromolecules more precisely macromolecular coils belong to nanoparticles and polymeric sols and gels to nanosystems Catalysis on nanoparticles is one of the most important sections of nanochemistry The majority of catalytic systems are nanosystems At heterogeneous catalysis the active substance is tried to deposit on carrier in nanoparticles form in order to increase their specific surface At homogeneous catalysis active substance molecules have often in themselves nanometer sizes The most favorable conditions for homogeneous catalysis are created when reagent molecules are adsorbed rapidly by nanoparticles and are desorbed slowly but have high surface mobility and consequently high reaction rate on the surface and at the reaction molecules of such structure are formed at which desorption rate is increased sharply If these conditions are realised in nanosystem with larger probability than in macrosystem then nanocatalyst has the raising activity that was observed for

many systems **Fractals in Biology and Medicine** Gabriele A. Losa, Danilo Merlini, Theo F. Nonnenmacher, Ewald R. Weibel, 2005-08-18 This volume is number four in a series of proceedings volumes from the International Symposia on Fractals in Biology and Medicine in Ascona Switzerland which have been inspired by the work of Beno t Mandelbrot seeking to extend the concepts towards the life sciences It highlights the potential that fractal geometry offers for elucidating and explaining the complex make up of cells tissues and biological organisms either in normal or in pathological conditions

The Virtual and the Real in Planning and Urban Design Claudia Yamu, Alenka Poplin, Oswald Devisch, Gert De Roo, 2017-10-12 The Virtual and the Real in Planning and Urban Design Perspectives Practices and Applications explores the merging relationship between physical and virtual spaces in planning and urban design Technological advances such as smart sensors interactive screens locative media and evolving computation software have impacted the ways in which people experience explore interact with and create these complex spaces This book draws together a broad range of interdisciplinary researchers in areas such as architecture urban design spatial planning geoinformation science computer science and psychology to introduce the theories models opportunities and uncertainties involved in the interplay between virtual and physical spaces Using a wide range of international contributors from the UK USA Germany France Switzerland Netherlands and Japan it provides a framework for assessing how new technology alters our perception of physical space

Digital Cultural Transformation Donatella Padua, 2021-12-13 The hypercomplex digital technological environment is exponential and revolutionary Our social mindset adaptation instead is slower and evolutionary as an individual s or an organization culture needs time to transform This book offers students institutions and organisations innovative and interdisciplinary digital sociology tools to help build an adaptive flexible imaginative social mindset in order to cope with such a gap and to match a sustainable digital transformation DT By disrupting traditional linear approaches to understand the context into which business models are designed institutions and students are challenged with innovative transdisciplinary holistic models grounded into business case studies If the book stimulates students to learn how purposefully and autonomously to explore the web to grasp the deeper meaning of DT and its social impact institutions are solicited to answer to direct quests that go right to the core of their transformative DNA as How effectively are you carrying on DT in a sustainable people centred way Which is your socio cultural DT profile and what are your DT areas of strength and areas of improvement In this frame of work the innovative Four Paradigm Model indicates new coordinates and provides original tools to profile an institution s digital transformation strategy to analyse it and measure the level of sustainable socio economic value Sample syllabi PowerPoint slides and quizzes are available online to assist in the teaching experience

Dynamics with Chaos and Fractals Marat Akhmet, Mehmet Onur Fen, Ejaily Milad Alejaily, 2020-01-01 The book is concerned with the concepts of chaos and fractals which are within the scopes of dynamical systems geometry measure theory topology and numerical analysis during the last several decades It is revealed that a special kind of Poisson stable

point which we call an unpredictable point gives rise to the existence of chaos in the quasi minimal set This is the first time in the literature that the description of chaos is initiated from a single motion Chaos is now placed on the line of oscillations and therefore it is a subject of study in the framework of the theories of dynamical systems and differential equations as in this book The techniques introduced in the book make it possible to develop continuous and discrete dynamics which admit fractals as points of trajectories as well as orbits themselves To provide strong arguments for the genericity of chaos in the real and abstract universe the concept of abstract similarity is suggested

New Trends in Qualitative and Quantitative Methods in Libraries Anthi Katsirikou, 2012 This unique volume presents the latest scientific achievements of library researchers and professionals on the Qualitative and Quantitative Methods of Libraries Scholars and professionals have now an information resource on methodological tools for library services Except for the new technologies that facilitate the innovation of libraries it is the underlying policy and functional changes that have the most lasting effect on the scholarly operation that explains why this volume is important in the field or market It also explores in detail the areas covering library methodologies marketing and management statistics and bibliometrics content and subject analysis users behaviors and library policies that play an important role at every aspect of library research in the twenty first century

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