

Chapter 1 Concepts And Methods In Biology

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IGI Global

As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. **Human-Computer Interaction: Concepts, Methodologies, Tools, and Applications** gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal reference work includes chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more.

Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications Pearson

The delivery of quality education to students relies heavily on the actions of an institution's administrative staff. Effective leadership strategies allow for the continued progress of modern educational initiatives. **Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications** provides comprehensive research perspectives on the multi-faceted issues of leadership and administration considerations within the education sector. Emphasizing theoretical frameworks, emerging strategic initiatives, and future outlooks, this publication is an ideal reference source for educators, professionals, school administrators, researchers, and practitioners in the field of education.

Intelligent Systems: Concepts, Methodologies, Tools, and Applications IGI Global

In order to succeed in today's increasingly competitive environment, corporations, companies, governments, and nonprofit organizations must be conversant with modern project management techniques. This is especially true for individuals looking to remain professionally competitive. Illustrating the why, what, and how of project management, **Project Management Concepts, Methods, and Techniques** will help readers develop and refine the skills needed to achieve strategic objectives. It presents a balanced blend of detailed explanatory texts and more than 200 illustrations to supply readers with actionable knowledge that can be put to use immediately. Completely aligned with the Project Management Institute Body of Knowledge (PMBOK® Guide), this book is the ideal platform for developing the understanding needed to plan, schedule, and deliver successful projects. Explaining how to recognize performance obstacles, it supplies time-tested strategies to help you: Overcome performance obstacles and produce positive results Master the communication and relationship management techniques required for success Develop and refine the core project management skills needed to manage projects in multi-disciplinary and cross-functional environments Filled with exercises, worked-through answers, and self-assessment techniques, this book is an ideal guide for anyone who works directly or indirectly with the management of projects. It illustrates a wide range of real-world situations to help you develop the real-world knowledge needed to consistently deliver projects that meet and exceed stakeholder requirements well into the future.

A Systems Theoretic Approach to Systems and Synthetic Biology I: Models and System Characterizations CreateSpace

Since the 1990's, researchers, practitioners and public administrations have given more thought to urban logistics. However, their interests and goals are not the same, and several approaches do not produce efficient logistics systems as a result. This book aims to provide both a conceptual framework for urban logistics planning and management and to create a basis for deploying solutions that aim to reduce the main nuisances related to urban goods. The proposed book is divided in two parts. The first proposes a set of methodological chapters, written by key authors, which aim to support decision makers in their current choices related to urban logistics. In addition to public authorities' aims and goals, the book highlights the importance of private actors, and shows how supply chain management can deal with the problems of the last urban mile and its integration in global logistics chains. The second presents several applied research works that deal with current planning and practice issues in urban logistics, such as the role of city planning, the place of night deliveries in carrier organization, the limits of logistics pooling, and the real estate market, among others. The book was written by key authors, all having considerable research experience and recognised as experts in their respective fields. Each chapter presents methods and results of research works, written for a broad audience, and more precisely directed to both academics and practitioners. **Banking, Finance, and Accounting: Concepts, Methodologies, Tools, and Applications** IGI Global

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The Art and Science of Embodied Research Design IGI Global

Ongoing advancements in modern technology have led to significant developments in intelligent systems. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. **Intelligent Systems: Concepts, Methodologies, Tools, and Applications** contains a compendium of the latest academic material on the latest breakthroughs and recent progress in intelligent systems. Including innovative studies on information retrieval, artificial intelligence, and software engineering, this multi-volume book is an ideal source for researchers, professionals, academics, upper-level students, and practitioners interested in emerging perspectives in the field of intelligent systems.

Epidemiology Springer Science & Business Media

Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end-users into an understandable way. **Data Mining: Concepts, Methodologies, Tools, and Applications** is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world.

Mathematical Concepts and Methods in Modern Biology Academic Press

Educational pedagogy is a diverse field of study, one that all educators should be aware of and fluent in so that their classrooms may succeed. **Curriculum Design and Classroom Management: Concepts, Methodologies, Tools, and Applications** presents cutting-edge research on the development and implementation of various tools used to maintain the learning environment and present information to pupils as effectively as possible. In addition to educators and students of education, this multi-volume reference is intended for educational theorists, administrators, and industry professionals at all levels. **Sustainable Business: Concepts, Methodologies, Tools, and Applications** World Scientific

Publishing Company

With the global economy still in recovery, it is more important than ever for individuals and organizations to be aware of their money and its potential for both depreciation and growth. **Banking, Finance, and Accounting: Concepts, Methodologies, Tools, and Applications** investigates recent advances and undertakings in the financial industry to better equip all members of the world economy with the tools and insights needed to weather any shift in the economic climate. With chapters on topics ranging from investment portfolios to credit unions, this multi-volume reference source will serve as a crucial resource for managers, investors, brokers, and all others within the banking industry.

Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications Apress

Advancements in digital technology continue to expand the image science field through the tools and techniques utilized to process two-dimensional images and videos. **Image Processing: Concepts, Methodologies, Tools, and Applications** presents a collection of research on this multidisciplinary field and the operation of multi-dimensional signals with systems that range from simple digital circuits to computers. This reference source is essential for researchers, academics, and students in the computer science, computer vision, and electrical engineering fields.

Family Therapy IGI Global

This book introduces multiple criteria and multiple constraint levels linear programming (MC2LP), which is an extension of linear programming (LP) and multiple criteria linear programming (MCLP). In the last decade, the author and a group of researchers from the USA, China, Korea, Germany, and Hungary have been working on the theory and applications of MC2LP problems. This volume integrates their main research results ranging from theoretical bases to broad areas of real world applications. The theoretical bases include the formulation of MC2LP; integer MC2LP and MC2 transportation model; fuzzy MC2LP and fuzzy duality of MC2LP; optimal system designs and contingency plans; MC2 decision support system; and MC2 computer software development. The application areas are accounting, management information systems, production planning, and telecommunications management. The book serves as a seminar text for both undergraduates and graduates who have a linear algebra or equivalent background. For practitioners, it will help in handling LP type problems in multiple decision making environment.

Project Management Concepts, Methods, and Techniques IGI Global

Through expanded intelligence, the use of robotics has fundamentally transformed the business industry. Providing successful techniques in robotic design allows for increased autonomous mobility, which leads to a greater productivity and production level. **Rapid Automation: Concepts, Methodologies, Tools, and Applications** provides innovative insights into the state-of-the-art technologies in the design and development of robotics and their real-world applications in business processes. Highlighting a range of topics such as workflow automation tools, human-computer interaction, and swarm robotics, this multi-volume book is ideally designed for computer engineers, business managers, robotic developers, business and IT professionals, academicians, and researchers. **Space, Time, and Archaeological Landscapes** Springer

The complexity of biological systems has intrigued scientists from many disciplines and has given birth to the highly influential field of systems biology wherein a wide array of mathematical techniques, such as flux balance analysis, and technology platforms, such as next generation sequencing, is used to understand, elucidate, and predict the functions of complex biological systems. More recently, the field of synthetic biology, i.e., de novo engineering of biological systems, has emerged. Scientists from various fields are

focusing on how to render this engineering process more predictable, reliable, scalable, affordable, and easy. Systems and control theory is a branch of engineering and applied sciences that rigorously deals with the complexities and uncertainties of interconnected systems with the objective of characterising fundamental systemic properties such as stability, robustness, communication capacity, and other performance metrics. Systems and control theory also strives to offer concepts and methods that facilitate the design of systems with rigorous guarantees on these properties. Over the last 100 years, it has made stellar theoretical and technological contributions in diverse fields such as aerospace, telecommunication, storage, automotive, power systems, and others. Can it have, or evolve to have, a similar impact in biology? The chapters in this book demonstrate that, indeed, systems and control theoretic concepts and techniques can have a significant impact in systems and synthetic biology. Volume I provides a panoramic view that illustrates the potential of such mathematical methods in systems and synthetic biology. Recent advances in systems and synthetic biology have clearly demonstrated the benefits of a rigorous and systematic approach rooted in the principles of systems and control theory - not only does it lead to exciting insights and discoveries but it also reduces the inordinately lengthy trial-and-error process of wet-lab experimentation, thereby facilitating significant savings in human and financial resources. In Volume I, some of the leading researchers in the field of systems and synthetic biology demonstrate how systems and control theoretic concepts and techniques can be useful, or should evolve to be useful, in order to understand how biological systems function. As the eminent computer scientist Donald Knuth put it, "biology easily has 500 years of exciting problems to work on". This edited book presents but a small fraction of those for the benefit of (1) systems and control theorists interested in molecular and cellular biology and (2) biologists interested in rigorous modelling, analysis and control of biological systems.

Fuzzy Systems: Concepts, Methodologies, Tools, and Applications IGI Global
Ideal for graduate, MBA, and rigorous undergraduate programs, FINANCIAL ACCOUNTING: AN INTRODUCTION TO CONCEPTS, METHODS, AND USES 14e presents both the basic concepts underlying financial statements and the terminology and methods that allows the reader to interpret, analyze, and evaluate corporate financial statements. Fully integrating the latest International Financial Reporting Standards, inclusive of the latest developments on Fair Value Accounting, and now more streamlined for busy students, this text provides the highest return on your financial accounting course investment. With great clarity, this widely respected financial accounting text paces students appropriately as they learn both the skills and applications of basic accounting in earlier chapters as well as the impart the concepts and analysis skills they will use as future business leaders. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Social Science Research IGI Global

Durable Ideas in Software Engineering: Concepts, Methods and Approaches from My Virtual ToolboxBentham Science Publishers

Cyber Warfare and Terrorism: Concepts, Methodologies, Tools, and Applications IGI Global

The Art and Science of Embodied Research Design: Concepts, Methods, and Cases offers some of the nascent perspectives that situate embodiment as a necessary element in human research. This edited volume brings together philosophical foundations of embodiment research with application of embodied methods from several disciplines. The book is divided into two sections. Part I, Concepts in Embodied Research Design, suggests ways that embodied epistemology may bring deeper understanding to current research theory, and describes the ways in which embodiment is an integral part of the research process. In Part II, Methods and Cases, chapters propose novel ways to operationalize embodied data in the research process. The section is divided into four sub-sections: Somatic Systems of Analysis, Movement Systems of Analysis, Embodied Interviews and Observations, and Creative and Mixed Methods. Each chapter proposes a method case; an example of a previously used research method that exemplifies the way in which embodiment is used in a study. As such, it can be used as scaffold for designing embodied methods that suits the researcher ' s needs. It is suited for many fields of study such as psychology, sociology, behavioral science, anthropology, education, and arts-based research. It will be useful for graduate coursework in somatic studies or as a supplemental text for courses in traditional research design.

Curriculum Design and Classroom Management: Concepts, Methodologies, Tools, and Applications IGI Global

Across a variety of disciplines, data and statistics form the backbone of knowledge. To ensure the reliability and validity of data, appropriate measures must be taken in conducting studies and reporting findings.

Research Methods: Concepts, Methodologies, Tools, and Applications compiles chapters on key considerations in the management, development, and distribution of data. With its focus on both fundamental concepts and advanced topics, this multi-volume reference work will be a valuable addition to researchers, scholars, and students of science, mathematics, and engineering.

Image Processing: Concepts, Methodologies, Tools, and Applications IGI Global

Mathematical Concepts and Methods in Modern Biology offers a quantitative framework for analyzing, predicting, and modulating the behavior of complex biological systems. The book presents important mathematical concepts, methods and tools in the context of essential questions raised in modern biology. Designed around the principles of project-based learning and problem-solving, the book considers biological topics such as neuronal networks, plant population growth, metabolic pathways, and phylogenetic tree reconstruction. The mathematical modeling tools brought to bear on these topics include Boolean and ordinary differential equations, projection matrices, agent-based modeling and several algebraic approaches. Heavy computation in some of the examples is eased by the use of freely available open-source software. Features self-contained chapters with real biological research examples using freely available computational tools Spans several mathematical techniques at basic to advanced levels Offers broad perspective on the uses of algebraic geometry/polynomial algebra in molecular systems biology

Digital Marketing and Consumer Engagement: Concepts, Methodologies, Tools, and Applications IGI Global

Due to the growing use of web applications and communication devices, the use of data has increased throughout various industries, including business and healthcare. It is necessary to develop specific software programs that can analyze and interpret large amounts of data quickly in order to ensure adequate usage and predictive results. Cognitive Analytics: Concepts, Methodologies, Tools, and Applications provides emerging perspectives on the theoretical and practical aspects of data analysis tools and techniques. It also examines the incorporation of pattern management as well as decision-making and prediction processes through the use of data management and analysis. Highlighting a range of topics such as natural language processing, big data, and pattern recognition, this multi-volume book is ideally designed for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, software engineers, IT specialists, and academicians.

Research Methods: Concepts, Methodologies, Tools, and Applications IGI Global

As marketing professionals look for ever more effective ways to promote their goods and services to customers, a thorough understanding of customer needs and the ability to predict a target audience ' s reaction to advertising campaigns is essential. Marketing and Consumer Behavior: Concepts, Methodologies, Tools, and Applications explores cutting-edge advancements in marketing strategies as well as the development and design considerations integral to the successful analysis of consumer trends. Including both in-depth case studies and theoretical discussions, this comprehensive four-volume reference is a necessary resource for business leaders and marketing managers, students and educators, and advertisers looking to expand the reach of their target market.