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[Hybrid Computational Intelligence](#) Jan 23 2022 Hybrid Computational Intelligence: Challenges and Utilities is a comprehensive resource that begins with the basics and main components of computational intelligence. It brings together many different aspects of the current research on HCI technologies, such as neural networks, support vector machines, fuzzy logic and evolutionary computation, while also covering a wide range of applications and implementation issues, from pattern recognition and system modeling, to intelligent control problems and biomedical applications. The book also explores the most widely used applications of hybrid computation as well as the history of their development. Each individual methodology provides hybrid systems with complementary reasoning and searching methods which allow the use of domain knowledge and empirical data to solve complex problems. Provides insights into the latest research trends in hybrid intelligent algorithms and architectures Focuses on the application of hybrid intelligent techniques for pattern mining and recognition, in big data analytics, and in human-computer interaction Features hybrid intelligent applications in biomedical engineering and healthcare informatics

Innovations and Technologies for Soft Skill Development and Learning Jan 29 2020 Traditional education revolves around the teaching of technical skills, especially within STEM fields. However, soft skills—broadly, communication and intrapersonal skills—are essential within all fields, especially those frequently involving research and collaboration. However, the focus on teaching students to be adept communicators and team members remains woefully underdeveloped. Innovations and Technologies for Soft Skill Development and Learning is a pivotal reference source that explores the mental and psychological growth of individual learners at different stages of education concerning soft skills and the need for innovation and creativity to lead a successful career. Highlighting topics including higher education, emotional intelligence, and student behavior, this book is ideally designed for educators, curriculum developers, instructional designers, administrators, policymakers, academicians, researchers, and students.

Studies on Graphene-Based Nanomaterials for Biomedical Applications Jun 23 2019 This thesis presents various applications of graphene-based nanomaterials, especially in biomedicine. Graphene and its derivatives have gained enormous attention from scientists in all fields of study due to many unprecedented properties. The initial scientific attention was focused on the development of transparent flexible electrodes by exploiting two-dimensional graphene film's extraordinary electrical and physical properties. Recently, given an increasing evidence of dispersed graphene-based nanomaterials' biocompatibility, researchers have endeavored to employ these materials in other studies relevant to biomedical technologies. In this respect, the thesis provides a comprehensive review on the synthesis, toxicity, and a few of the key biomedical applications in the first chapter. The following chapter discusses the use of a graphene film as a novel catalyst to oxidatively destroy phenols, which are known to be potentially mutagenic and carcinogenic. Finally, and most importantly, the last chapter introduces the therapeutic role of graphene quantum dots, the smallest graphene-based nanomaterials, for Parkinson's disease. The results are promising for the use of graphene quantum dots as the basis of future clinical drug candidates for neurodegenerative disorders. ?

[Development and Application of Computer Techniques to Environmental Studies](#) X Jan 11 2021 This volume presents the most recent developments and practical implementations in the theoretical, numerical and applicable aspects of computer analysis, simulation, modelling, control and forecasting for environmental applications.

Praxis Special Education Core Knowledge and Applications (5354) Study Guide May 15 2021  
Case Study Research Dec 22 2021

[Applications of Case Study Research](#) Sep 30 2022 This book helps graduate students and seasoned researchers strengthen their own case study research and become more critical consumers of the case study research done by others. It presents a collection of 21 individual applications of the case study method, many shortened or re-written for this book. Following feedback from users of earlier editions of the book, the applications include a wide array of single-case studies, providing useful examples for solo researchers. New to This Edition: - Expanded from 10 to 15 chapters, and from 16 to 21 case study applications, the book provides many more examples of the case study method - Contains six entirely new chapters, all emphasizing single-case and simpler applications, and including an introductory chapter which serves as a refresher on the case study method - Provides a new feature called inside stories, which are linked to suggested classroom exercises - Includes an expanded section of the book on case study evaluations, including an new chapter on the principles of case study evaluations along with a specific and new application.

Historical Organization Studies Feb 21 2022 We are now entering a new phase in the establishment of historical organization studies as a distinctive methodological paradigm within the broad field of organization studies. This book serves both as a

landmark in the development of the field and as a key reference tool for researchers and students. For two decades, organization theorists have emphasized the need for more and better research recognizing the importance of the past in shaping the present and future. By historicizing organizational research, the contexts and forces bearing upon organizations will be more fully recognized, and analyses of organizational dynamics improved. But how, precisely, might a traditionally empirically oriented discipline such as history be incorporated into a theoretically oriented discipline such as organization studies? This book evaluates the current state of play, advances it and identifies the possibilities the new emergent field offers for the future. In addition to providing an important work of reference on the subject for researchers, the book can be used to introduce management and organizational history to a student audience at both undergraduate and postgraduate levels. The book is a valuable source for wider reading, providing rich reference material in tutorials across organizational studies, or as recommended or required reading on courses with a connection to business or management history.

Data Processing Documentation: Standards, Procedures, and Applications Mar 25 2022

Optimization in Machine Learning and Applications Dec 30 2019 This book discusses one of the major applications of artificial intelligence: the use of machine learning to extract useful information from multimodal data. It discusses the optimization methods that help minimize the error in developing patterns and classifications, which further helps improve prediction and decision-making. The book also presents formulations of real-world machine learning problems, and discusses AI solution methodologies as standalone or hybrid approaches. Lastly, it proposes novel metaheuristic methods to solve complex machine learning problems. Featuring valuable insights, the book helps readers explore new avenues leading toward multidisciplinary research discussions.

Modelling and Applications in Mathematics Education Apr 13 2021 The book aims at showing the state-of-the-art in the field of modeling and applications in mathematics education. This is the first volume to do this. The book deals with the question of how key competencies of applications and modeling at the heart of mathematical literacy may be developed; with the roles that applications and modeling may play in mathematics teaching, making mathematics more relevant for students.

Nanophysics, Nanophotonics, Surface Studies, and Applications Aug 18 2021 This book presents some of the latest achievements in nanotechnology and nanomaterials from leading researchers in Ukraine, Europe, and beyond. It features contributions from participants in the 3rd International Science and Practice Conference Nanotechnology and Nanomaterials (NANO2015) held in Lviv, Ukraine on August 26-30, 2015. The International Conference was organized jointly by the Institute of Physics of the National Academy of Sciences of Ukraine, University of Tartu (Estonia), Ivan Franko National University of Lviv (Ukraine), University of Turin (Italy), Pierre and Marie Curie University (France), and European Profiles A.E. (Greece). Internationally recognized experts from a wide range of universities and research institutions share their knowledge and key results on topics ranging from nanooptics, nanoplasmonics, and interface studies to energy storage and biomedical applications.

Cross-Cultural Psychology Sep 18 2021 Third edition of leading textbook offering an advanced overview of all major perspectives of research in cross-cultural psychology.

Field-theory (RLE Social Theory) Mar 13 2021 This is an important account of the development of the 'field-theory' approach in the social sciences. Harald Mey concentrates on the writers from the 1930s to the present day who have used this approach to the study of the individual and of society, and gives a clear exposition of such 'field-theory' application in its many differing forms. In addition, the author shows how a concept which was initially useful in the physical sciences came to be used first by psychologists, and subsequently by sociologists and others in related disciplines, in their search for answers to the problems presented by the study of society. Mey describes how the use of the 'field-theory' perspective has fared when applied to specific areas of social research – education, personal relationships, group behaviour. He also compares the 'field-theory' approach to the study of societies with the structural/functional approach, and explains why he believes 'field-theory' has a number of advantages over the structural/functional approach, especially when it comes to the dynamic problem of social change.

Case Study Research and Applications Apr 25 2022 Recognized as one of the most cited methodology books in the social sciences, the Sixth Edition of Robert K. Yin's bestselling text provides a complete portal to the world of case study research. With the integration of 11 applications in this edition, the book gives readers access to exemplary case studies drawn from a wide variety of academic and applied fields. Ultimately, Case Study Research and Applications will guide students in the successful design and use of the case study research method. New to this Edition includes 11 in-depth applications that show how researchers have implemented case study methods successfully. Increases reference to relativist and constructivist approaches to case study research, as well as how case studies can be part of mixed methods projects. Places greater emphasis on using plausible rival explanations to bolster case study quality. Discusses synthesizing findings across case studies in a multiple-case study in more detail Adds an expanded list of 15 fields that have text or texts devoted to case study research. Sharpens discussion of distinguishing research from non-research case studies. The author brings to light at least three remaining gaps to be filled in the future: how rival explanations can become more routinely integrated into all case study research; the difference between case-based and variable-based approaches to designing and analyzing case studies; and the relationship between case study research and qualitative research.

Handbook of Research Methods and Applications in Social Capital Mar 01 2020 Social capital is fundamentally concerned with resources in social relations. This Handbook brings together leading scholars from around the world to address important questions on the determinants, manifestations and consequences of social capital. Vario

Studying Mathematics and its Applications Dec 10 2020 As students of mathematics or its applications progress, courses focus increasingly on mathematical theories and applications themselves, and less on how to study these complex ideas. Studying Mathematics and its Applications aims to bridge this gap by focusing on the essential skills needed by students, helping them to study more effectively and successfully. The book leads the student through tasks, demonstrating how to use examples and cope with symbols and encouraging them to use these tools to apply mathematics and construct proofs. Offering practical advice on assessment and modes of study, this book is an invaluable companion to any Mathematics or Applications of Mathematics course.

Methods In Futures Studies Jul 17 2021 This book presents three examples of futures research that illustrate the problems of applying knowledge during the course of a futures research project, the ways in which different methodologies interact, and various means of combining and adapting methodological tools and techniques.

Clinical Epidemiology Nov 20 2021 Now updated with new data and examples throughout, Clinical Epidemiology: Principles, Methods, and Applications for Clinical Research, Second Edition is a comprehensive resource that introduces the reader to the basics of clinical epidemiology and explores the principles and methods that can be used to obtain quantitative evidence on the effects of interventions and on the diagnosis, etiology, and prognosis of disease. The everyday challenges of clinical research and

the quantitative knowledge required to practice medicine are also examined, making this book a valuable reference for both graduate and undergraduate students in medicine and related disciplines, as well as for professionals involved in the design and conduct of clinical research.

Historical Organization Studies Jun 27 2022 We are now entering a new phase in the establishment of historical organization studies as a distinctive methodological paradigm within the broad field of organization studies. This book serves both as a landmark in the development of the field and as a key reference tool for researchers and students. For two decades, organization theorists have emphasized the need for more and better research recognizing the importance of the past in shaping the present and future. By historicizing organizational research, the contexts and forces bearing upon organizations will be more fully recognized, and analyses of organizational dynamics improved. But how, precisely, might a traditionally empirically oriented discipline such as history be incorporated into a theoretically oriented discipline such as organization studies? This book evaluates the current state of play, advances it and identifies the possibilities the new emergent field offers for the future. In addition to providing an important work of reference on the subject for researchers, the book can be used to introduce management and organizational history to a student audience at both undergraduate and postgraduate levels. The book is a valuable source for wider reading, providing rich reference material in tutorials across organizational studies, or as recommended or required reading on courses with a connection to business or management history.

Studies on the Microbiological Assay of Folacin in Cereal Products and Application to Stability During Flour Storage and Bread Processing Aug 25 2019

Studies on the Development, Preparation, Properties and Applications of Wax Emulsions for Coating Nursery Stock and Other Plant Materials Jun 15 2021

Compassion Oct 20 2021 Paul Gilbert brings together an international line-up of leading scholars and researchers in the field to provide a state-of-the-art exploration of key areas in compassion research and applications. Compassion can be seen as a core element of prosocial behaviour, and explorations of the concepts and value of compassion have been extended into different aspects of life including physical and psychological therapies, schools, leadership and business. While many animals share abilities to be distress sensitive and caring of others, it is our newly evolved socially intelligent abilities that make us capable of knowingly and deliberately helping others and purposely developing skills and wisdom to do so. This book generates many research questions whilst exploring the similarity and differences of human compassion to non-human caring and looks at how compassion changes the brain and body, affects genetic expression, manifests at a young age and is then cultivated (or not) by the social environment. *Compassion: Concepts, Research and Applications* will be essential reading for professionals, researchers and scholars interested in compassion and its applications in psychology and psychotherapy.

Scholar Anxiety Nov 28 2019 The authors provide us with the first in depth look at the origins and subsequent evolution of this fascinating field of study. Beginning with a discussion of the Library Anxiety Scale, the most widely used measure of library anxiety among college and university students, it investigates a number of theoretical models, provides an extensive framework for conducting research at the institutional level, and offers both proven and proposed strategies for prevention and intervention. If there are more nonusers than users in your community—or if you suspect your users could benefit more from the experience—let *Library Anxiety* ease your troubled hearts and smooth the way ahead.

Shark Research Jul 29 2022 Key features: Serves as the first single-source reference with in-depth coverage of techniques appropriate for the laboratory and field study of sharks, skates, and rays Contains chapters on a broad range of methods such as Imaging Technologies, Satellite Tracking, Stationary Underwater Video, and Population Genetic Approaches and Genomics among others Presents technologies that can be used to study other aquatic fish and marine mammals and reptiles Includes chapter authors who were pioneers in developing some of the technologies discussed in the book Concludes with a unique section on Citizen Science and its Application to Studies of Shark Biology Over the last decade, the study of shark biology has benefited from the development, refinement, and rapid expansion of novel techniques and advances in technology. These have given new insight into the fields of shark genetics, feeding, foraging, bioenergetics, imaging, age and growth, movement, migration, habitat preference, and habitat use. This pioneering book, written by experts in shark biology, examines technologies such as autonomous vehicle tracking, underwater video approaches, molecular genetics techniques, and accelerometry, among many others. Each detailed chapter offers new insights and promises for future studies of elasmobranch biology, provides an overview of appropriate uses of each technique, and can be readily extended to other aquatic fish and marine mammals and reptiles.

Research Methods, Statistics, and Applications May 03 2020 This updated Second Edition of *Research Methods, Statistics, and Applications* consistently integrates methods and statistics to prepare students for both graduate work and critical analysis of research as professionals and informed citizens. Maintaining the conversational writing style, multiple examples, and hands-on applications of key concepts that made the first edition so accessible, Kathryn A. Adams and Eva K. Lawrence enhance the new edition with additional coverage of online data collection, inferential statistics, and regression and ANOVA, as well as a wide range of diverse examples. In every chapter, the authors develop and apply research topics and examples from the current research literature across all aspects of the research process. New to this Edition New diverse examples from current research literature in criminal justice, politics, education, and counseling expose students to different research designs in the social sciences and demonstrate commonalities. New chapter-ending The Big Picture sections with appropriate charts and tables encourage students to consider decisions about specific statistical analyses. Two separate chapters (*Inferential Statistics* and *Comparing Your Sample to a Known or Expected Score*) now allow instructors to focus on the theoretical concepts associated with inferential statistics before introducing each specific inferential statistic to enhance student understanding. Expanded coverage of inferential statistics includes more discussion of APA guidelines for appropriate statistics and more focus on effect sizes and confidence intervals. New consistent headings make it easy for students to quickly locate information and for instructors to identify sections they may wish to focus on, skip, or present in a different order.

Social Support: Theory, Research and Applications Sep 06 2020 "No one is rich enough to do without a neighbor." Traditional Danish Proverb This bit of Danish folk wisdom expresses an idea underlying much of the current thinking about social support. While the clinical literature has for a long time recognized the deleterious effects of unwholesome social relationships, only more recently has the focus broadened to include the positive side of social interaction, those interpersonal ties that are desired, rewarding, and protective. This book contains theoretical and research contributions by a group of scholars who are charting this side of the social spectrum. Evidence is increasing that maladaptive ways of thinking and behaving occur disproportionately among people with few social supports. Rather than sapping self-reliance, strong ties with others particularly family members seem to

encourage it. Reliance on others and self-reliance are not only compatible but complementary to one another. While the mechanism by which an intimate relationship is protective has yet to be worked out, the following factors seem to be involved: intimacy, social integration through shared concerns, reassurance of worth, the opportunity to be nurtured by others, a sense of reliable alliance, and guidance. The major advance that is taking place in the literature on social support is that reliance is being placed less on anecdotal and clinical evidence and more on empirical inquiry. The chapters of this book reflect this important development and identify the frontiers that are currently being explored.

**Artificial Intelligence for Business Optimization** Oct 08 2020 Artificial Intelligence for Business Optimization: Research and Applications is primarily a business book that discusses the research and associated practical application of Artificial Intelligence (AI) and Machine Learning (ML) in order to achieve Business Optimization (BO).

**Advances in Learning Theory** Feb 09 2021 This text details advances in learning theory that relate to problems studied in neural networks, machine learning, mathematics and statistics.

**The Case for Case Studies** Jun 03 2020 This book seeks to narrow two gaps: first, between the widespread use of case studies and their frequently 'loose' methodological moorings; and second, between the scholarly community advancing methodological frontiers in case study research and the users of case studies in development policy and practice. It draws on the contributors' collective experience at this nexus, but the underlying issues are more broadly relevant to case study researchers and practitioners in all fields. How does one prepare a rigorous case study? When can causal inferences reasonably be drawn from a single case? When and how can policy-makers reasonably presume that a demonstrably successful intervention in one context might generate similarly impressive outcomes elsewhere, or if massively 'scaled up'? No matter their different starting points – disciplinary base, epistemological orientation, sectoral specialization, or practical concerns – readers will find issues of significance for their own field, and others across the social sciences. This title is also available Open Access.

**IoT Security Paradigms and Applications** Apr 01 2020 Integration of IoT (Internet of Things) with big data and cloud computing has brought forward numerous advantages and challenges such as data analytics, integration, and storage. This book highlights these challenges and provides an integrating framework for these technologies, illustrating the role of blockchain in all possible facets of IoT security. Furthermore, it investigates the security and privacy issues associated with various IoT systems along with exploring various machine learning-based IoT security solutions. This book brings together state-of-the-art innovations, research activities (both in academia and in industry), and the corresponding standardization impacts of 5G as well. Aimed at graduate students, researchers in computer science and engineering, communication networking, IoT, machine learning and pattern recognition, this book Showcases the basics of both IoT and various security paradigms supporting IoT, including Blockchain Explores various machine learning-based IoT security solutions and highlights the importance of IoT for industries and smart cities Presents various competitive technologies of Blockchain, especially concerned with IoT security Provides insights into the taxonomy of challenges, issues, and research directions in IoT-based applications Includes examples and illustrations to effectively demonstrate the principles, algorithm, applications, and practices of security in the IoT environment

**Digital Games in Language Learning** Aug 30 2022 This edited volume provides a comprehensive overview of contemporary research into the application of digital games in second and foreign language teaching and learning. As the use of digital games in foreign language education continues to expand, there is a need for publications that provide a window into recent innovations in this increasingly influential area of language education. This volume is wide ranging in scope incorporating both theory and practice and includes contributions from authorities in the field. Areas covered include research reviews and a range of case studies conducted in a variety of international contexts. This volume represents an essential guide to developments in this field and will have wide appeal to students, language educators, game and instructional designers.

**In Praise of Historical Anthropology** Oct 27 2019 In Praise of Historical Anthropology is based on a fundamental conviction: the study of society cannot be undertaken without considering the weight of history and separations between disciplines in academics need to be bridged for the benefit of knowledge. Anthropology cannot be limited to situating its object in its immediate context; rather its true subject of study is society as a historical problem. The book describes the complex attempts to transcend this separation, presenting perspectives, methodologies and direct applications for the study of power relations and systems of social classification, paying special attention to the reconstruction of colonial situations. Following the maxim expounded by John and Jean Comaroff, this book will help us understand that historical anthropology is not a matter of merging the two disciplines of anthropology and history, but rather considering societies in their historically situated dimension and applying the tools of the social and human sciences to the analysis. In this vein, the book reviews the complex attempts to bridge disciplinary separations and theoretical proposals coming from very different traditions. The text, consequently, opens up hegemonic perspectives to include 'other anthropologies.'

**Introduction to Diffusion Tensor Imaging** May 27 2022 The concepts behind diffusion tensor imaging (DTI) are commonly difficult to grasp, even for magnetic resonance physicists. To make matters worse, a many more complex higher-order methods have been proposed over the last few years to overcome the now well-known deficiencies of DTI. In Introduction to Diffusion Tensor Imaging: And Higher Order Models, these concepts are explained through extensive use of illustrations rather than equations to help readers gain a more intuitive understanding of the inner workings of these techniques. Emphasis is placed on the interpretation of DTI images and tractography results, the design of experiments, and the types of application studies that can be undertaken. Diffusion MRI is a very active field of research, and theories and techniques are constantly evolving. To make sense of this constantly shifting landscape, there is a need for a textbook that explains the concepts behind how these techniques work in a way that is easy and intuitive to understand—Introduction to Diffusion Tensor Imaging fills this gap. Extensive use of illustrations to explain the concepts of diffusion tensor imaging and related methods Easy to understand, even without a background in physics Includes sections on image interpretation, experimental design, and applications Up-to-date information on more recent higher-order models, which are increasingly being used for clinical applications

**Advanced Materials** Sep 26 2019 Advanced materials are the basis of modern science and technology. This proceedings volume presents a broad spectrum of studies of novel materials covering their processing techniques, physics, mechanics, and applications. The book is concentrated on nanostructures, ferroelectric crystals, materials and composites, materials for solar cells and also polymeric composites. Nanotechnology approaches, modern piezoelectric techniques and also latest achievements in materials science, condensed matter physics, mechanics of deformable solids and numerical methods are presented. Great attention is devoted to novel devices with high accuracy, longevity and extended possibilities to work in wide temperature and pressure ranges, aggressive media etc. The characteristics of materials and composites with improved properties opening new

possibilities of various physical processes, in particular transmission and receipt of signals under water, are described.

Case Study Research and Applications Nov 01 2022 The Sixth Edition of Robert K. Yin's bestseller provides a complete portal to the world of case study research. Offering comprehensive coverage of the design and use of the case study method in addition to an integration of applications, the book gives readers access to exemplary case studies drawn from a wide variety of academic and applied fields. The integration of applications will enable users to see more directly how concrete case studies can implement the principles of case study research methods.

Participatory Case Study Work Nov 08 2020 Participatory Case Study Work shows academic co-researchers how to adapt and implement their methods so that data collection and analysis is authentically participatory. At the heart of this text is advocating a participatory approach to case study work, with co-construction as a catalyst for shared understanding and action in advancing ageing studies. Whilst case study research has a relatively long tradition in the canon of research methodologies, little attention has so far been paid to the importance and value of participatory case study work. This is surprising as its egalitarian and democratic value-base naturally lends itself to the co-production and co-creation of personal and collective theory drawn directly from lived experience. The book brings together over 15 years' worth of participatory case study work in ageing studies in which the editors have been actively involved as either front-line researchers or as supervisors to PhD and MPhil studies adopting the methodology, and from where each of the contributors are selected. Real-life case examples are shared in the main chapters of the book and they provide direction as to how learning can be applied to other settings. The chapters also contain key references and recommended reading. This volume will appeal to undergraduate and postgraduate students as well as postdoctoral researchers interested in fields such as: Research Methods, Qualitative Methods, Ageing Studies and Mental Health Studies.

Research Methods, Statistics, and Applications Jul 05 2020 The third edition of Research Methods, Statistics, and Applications by Kathryn A. Adams and Eva K. McGuire consistently integrates the interrelated concepts of research methods and statistics to better explain how the research process requires a combination of these two elements. This best-selling combined text includes numerous examples and practical applications from the latest research across the social and behavioral sciences. The conversational tone and emphasis on decision-making engages students in the research process and demonstrates the value of rigorous research in academic settings and beyond. The end goal of this book is to spark students' interest in conducting research and to increase their ability to critically analyze research in their daily lives. The third edition includes a new chapter on measurement to better highlight the critical importance of this topic, updates for the 7th edition of the Publication Manual of the American Psychological Association, new examples related to social justice, a new section on case studies, and more thorough integration of research ethics information and tips throughout each chapter.

Development and Application of Computer Techniques to Environmental Studies Aug 06 2020 Featuring the proceedings of the Ninth International Conference on The Modeling, Monitoring and Management of Environmental Problems (ENVIROSOFT), this book presents developments and practical implementations in the theoretical, numerical and applicable aspects of computer analysis, simulation, modelling, control and forecasting for environmental applications.

Developmental Psychology Jul 25 2019

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