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KEY=SYNTHESIS - LIU RODGERS

Graph Representation Learning

Springer Nature Graph-structured data is ubiquitous throughout the natural and social sciences, from telecommunication networks to quantum chemistry. Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn, reason, and generalize from this kind of data. Recent years have seen a surge in research on graph representation learning, including techniques for deep graph embeddings, generalizations of convolutional neural networks to graph-structured data, and neural message-passing approaches inspired by belief propagation. These advances in graph representation learning have led to new state-of-the-art results in numerous domains, including chemical synthesis, 3D vision, recommender systems, question answering, and social network analysis. This book provides a synthesis and overview of graph representation learning. It begins with a discussion of the goals of graph representation learning as well as key methodological foundations in graph theory and network analysis. Following this, the book introduces and reviews methods for learning node embeddings, including random-walk-based methods and applications to knowledge graphs. It then provides a technical synthesis and introduction to the highly successful graph neural network (GNN) formalism, which has become a dominant and fast-growing paradigm for deep learning with graph data. The book concludes with a synthesis of recent advancements in deep generative models for graphs—a nascent but quickly growing subset of graph representation learning.

Visible Learning

A Synthesis of Over 800 Meta-Analyses Relating to Achievement

Routledge This unique and ground-breaking book is the result of 15 years research and synthesises over 800 meta-analyses on the influences on achievement in school-aged students. It builds a story about the power of teachers, feedback, and a model of learning and understanding. The research involves many millions of students and represents the largest ever evidence based research into what actually works in schools to improve learning. Areas covered include the influence of the student, home, school, curricula, teacher, and teaching strategies. A model of teaching and learning is developed based on the notion of visible teaching and visible learning. A major message is that what works best for students is similar to what works best for teachers – an attention to setting challenging learning intentions, being clear about what success means, and an attention to learning strategies for developing conceptual understanding about what teachers and students know and understand. Although the current evidence based fad has turned into a debate about test scores, this book is about using evidence to build and defend a model of teaching and learning. A major contribution is a fascinating benchmark/dashboard for comparing many innovations in teaching and schools.

Quality assurance for building synthesis report

FIB - International Federation for Structural Concrete

Business 4.0 as a Subject of the Digital Economy

Springer Nature This book substantiates the transformation processes in the system of modern entrepreneurship in the conditions of formation of Industry 4.0. The authors develop a scientific concept of business 4.0, determine the specific features of business 4.0 and current problems and perspectives of its development in developed and developing markets, study the infrastructural provision of business 4.0 in view of its sectorial specifics, outline the perspectives and recommendations in the sphere of development of business 4.0, and offer the scientific and practical recommendations for state and corporate management.

Circuits and Networks:

OUP India Circuits & Networks: Analysis, Design, and Synthesis has been designed for undergraduate students of Electrical, Electronics, Instrumentation, and Control Engineering. The book is structured to provide an in-depth knowledge of electrical circuit analysis, design, and synthesis.

Public Health Aspects of Mental Health Among Migrants and Refugees

A Review of the Evidence on Mental Health Care for Refugees, Asylum Seekers and Irregular Migrants in the WHO European Region

Networks, Crowds, and Markets

Reasoning About a Highly Connected World

Cambridge University Press Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

Governance Networks in the Public Sector

Routledge Governance Networks in the Public Sector presents a comprehensive study of governance networks and the management of complexities in network settings. Public, private and non-profit organizations are increasingly faced with complex, wicked problems when making decisions, developing policies or delivering services in the public sector. These activities take place in networks of interdependent actors guided by diverging and sometimes conflicting perceptions and strategies. As a result these networks are dominated by cognitive, strategic and institutional complexities. Dealing with these complexities requires sophisticated forms of coordination: network governance. This book presents the most recent theoretical and empirical insights into governance networks. It provides a conceptual framework and analytical tools to study the complexities involved in handling wicked problems in governance networks in the public sector. The book also discusses strategies and management recommendations for governments, business and third sector organisations operating in and governing networks. Governance Networks in the Public Sector is an essential text for advanced students of public management, public administration, public policy and political science, and for public managers and policymakers.

Urban Remote Sensing

Monitoring, Synthesis and Modeling in the Urban Environment

John Wiley & Sons Urban Remote Sensing is designed for upper level undergraduates, graduates, researchers and practitioners, and has a clear focus on the development of remote sensing technology for monitoring, synthesis and modeling in the urban environment. It covers four major areas: the use of high-resolution satellite imagery or alternative sources of image date (such as high-resolution SAR and LIDAR) for urban feature extraction; the development of improved image processing algorithms and techniques for deriving accurate and consistent information on urban attributes from remote sensor data; the development of analytical techniques and methods for deriving indicators of socioeconomic and environmental conditions that prevail within urban landscape; and the development of remote sensing and spatial analytical techniques for urban growth simulation and predictive modeling.

Analysis, Synthesis and Design of Chemical Processes

Pearson Education The Leading Integrated Chemical Process Design Guide: Now with New Problems, New Projects, and More More than ever, effective design is the focal point of sound chemical engineering. Analysis, Synthesis, and Design of Chemical Processes, Third Edition, presents design as a creative process that integrates both the big picture and the small details–and knows which to stress when, and why. Realistic from start to finish, this book moves readers beyond classroom exercises into open-ended, real-world process problem solving. The authors introduce integrated techniques for every facet of the discipline, from finance to operations, new plant design to existing process optimization. This fully updated Third Edition presents entirely new problems at the end of every chapter. It also adds extensive coverage of batch process design, including realistic examples of equipment sizing for batch sequencing; batch scheduling for multi-product plants; improving production via intermediate storage and parallel equipment; and new optimization techniques specifically for batch processes. Coverage includes Conceptualizing and analyzing chemical processes: flow diagrams, tracing, process conditions, and more Chemical process economics: analyzing capital and manufacturing costs, and predicting or assessing profitability Synthesizing and optimizing chemical processing: experience-based principles, BFD/PFD, simulations, and more Analyzing process performance via I/O models, performance curves, and other tools Process troubleshooting and "debottlenecking" Chemical engineering design and society: ethics, professionalism, health, safety, and new "green engineering" techniques Participating successfully in chemical engineering design teams Analysis, Synthesis, and Design of Chemical Processes, Third Edition, draws on nearly 35 years of innovative chemical engineering instruction at West Virginia University. It includes suggested curricula for both single-semester and year-long design courses; case studies and design projects with practical applications; and appendixes with current equipment cost data and preliminary design information for eleven chemical processes–including seven brand new to this edition.

Global Handbook of Health Promotion Research, Vol. 1

Mapping Health Promotion Research

Springer Nature While research teams are producing relevant and valid knowledge for health promotion, there is not yet a structured manual and distinct field of health promotion research. This timely "state-of-the-art" handbook contributes to the structuring of such a field of research. This collection of original contributions explores the major epistemological, methodological, and ethical challenges facing health promotion research. It brings together experts from different "research traditions" that coexist in the field. The handbook covers the existing knowledge production and sharing practices to delineate the "discipline" and its agenda for future research. Ultimately, it contributes to the creation of a global community of health promotion researchers. The handbook is organized by four types of practices (what people actually do) studied in health promotion; the practices of: Individuals and populations in relation to their health and its determinants Professionals who intervene to improve population health Policy-makers and institutions involved in the advocacy, design, and implementation of policies and programs Researchers and innovators (academic scholars and global agencies) through which investment in research and production of evidence-based guidelines are made. Global Handbook of Health Promotion Research, Vol. 1: Mapping Health Promotion Research is a highly relevant reference tool for researchers and graduate students in health promotion, public health, education and socio-health sciences; practitioners in health, medical, and social sectors; policy-makers; and health research administrators.

Mining Heterogeneous Information Networks

Principles and Methodologies

Morgan & Claypool Publishers Real-world physical and abstract data objects are interconnected, forming gigantic, interconnected networks. By structuring these data objects and interactions between these objects into multiple types, such networks become semi-structured heterogeneous information networks. Most real-world applications that handle big data, including interconnected social media and social networks, scientific, engineering, or medical information systems, online e-commerce systems, and most database systems, can be structured into heterogeneous information networks. Therefore, effective analysis of large-scale heterogeneous information networks poses an interesting but critical challenge. In this book, we investigate the principles and methodologies of mining heterogeneous information networks. Departing from many existing network models that view interconnected data as homogeneous graphs or networks, our semi-structured heterogeneous information network model leverages the rich semantics of typed nodes and links in a network and uncovers surprisingly rich knowledge from the network. This semi-structured heterogeneous network modeling leads to a series of new principles and powerful methodologies for mining interconnected data, including: (1) rank-based clustering and classification; (2) meta-path-based similarity search and mining; (3) relation strength-aware mining, and many other potential developments. This book introduces this new research frontier and points out some promising research directions. Table of Contents: Introduction / Ranking-Based Clustering / Classification of Heterogeneous Information Networks / Meta-Path-Based Similarity Search / Meta-Path-Based Relationship Prediction / Relation Strength-Aware Clustering with Incomplete Attributes / User-Guided Clustering via Meta-Path Selection / Research Frontiers

Qualitative Data Analysis

A User Friendly Guide for Social Scientists

Routledge First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

The Mizoroki-Heck Reaction

John Wiley & Sons Exploring the importance of Richard F. Heck's carbon coupling reaction, this book highlights the subject of the 2010 Nobel Prize in Chemistry for palladium-catalyzed cross couplings in organic synthesis, and includes a foreword from Nobel Prize winner Richard F. Heck. The Mizoroki-Heck reaction is a palladium-catalyzed carbon–carbon bond forming process which is widely used in organic and organometallic synthesis. It has seen increasing use in the past decade as chemists look for strategies enabling the controlled construction of complex carbon skeletons. The Mizoroki-Heck Reaction is the first dedicated volume on this important reaction, including topics on: mechanisms of the Mizoroki-Heck reaction intermolecular Mizoroki-Heck reactions focus on regioselectivity and product outcome in organic synthesis waste-minimized Mizoroki-Heck reactions intramolecular Mizoroki-Heck reactions formation of heterocycles chelation-controlled Mizoroki-Heck reactions the Mizoroki-Heck reaction in domino processes oxidative heck-type reactions (Fujiwara-Moritani reactions) Mizoroki-Heck reactions with metals other than palladium ligand design for intermolecular asymmetric Mizoroki-Heck reactions intramolecular enantioselective Mizoroki-Heck reactions desymmetrizing Mizoroki-Heck reactions applications in combinatorial and solid phase syntheses, and the development of modern solvent systems and reaction techniques the asymmetric intramolecular Mizoroki-Heck reaction in natural product total synthesis Several chapters are devoted to asymmetric Heck reactions with particular focus on the construction of otherwise difficult-to-obtain sterically congested tertiary and quaternary carbons. Industrial and academic applications are highlighted in the final section. The Mizoroki-Heck Reaction will find a place on the bookshelves of any organic or organometallic chemist. "I am convinced that this book will rapidly become the most important reference text for research chemists in academia and industry who seek orientation in the rapidly growing and – for the layman – confusing field described as the "'Mizoroki–Heck reaction'." (Synthesis, March 2010)

Climate Change 2014

Synthesis Report

Bayesian Networks

A Practical Guide to Applications

John Wiley & Sons Bayesian Networks, the result of the convergence of artificial intelligence with statistics, are growing in popularity. Their versatility and modelling power is now employed across a variety of fields for the purposes of analysis, simulation, prediction and diagnosis. This book provides a general introduction to Bayesian networks, defining and illustrating the basic concepts with pedagogical examples and twenty real-life case studies drawn from a range of fields including medicine, computing, natural sciences and engineering. Designed to help analysts, engineers, scientists and professionals taking part in complex decision processes to successfully implement Bayesian networks, this book equips readers with proven methods to generate, calibrate, evaluate and validate Bayesian networks. The book: Provides the tools to overcome common practical challenges such as the treatment of missing input data, interaction with experts and decision makers, determination of the optimal granularity and size of the model. Highlights the strengths of Bayesian networks whilst also presenting a discussion of their limitations. Compares Bayesian networks with other modelling techniques such as neural networks, fuzzy logic and fault trees. Describes, for ease of comparison, the main features of the major Bayesian network software packages: Netica, Hugin, Elvira and Discoverer, from the point of view of the user. Offers a historical perspective on the subject and analyses future directions for research. Written by leading experts with practical experience of applying Bayesian networks in finance, banking, medicine, robotics, civil engineering, geology, geography, genetics, forensic science, ecology, and industry, the book has much to offer both practitioners and researchers involved in statistical analysis or modelling in any of these fields.

Psychology of Intelligence Analysis

Pickle Partners Publishing In this seminal work, published by the C.I.A. itself, produced by Intelligence veteran Richards Heuer discusses three pivotal points. First, human minds are ill-equipped ("poorly wired") to cope effectively with both inherent and induced uncertainty. Second, increased knowledge of our inherent biases tends to be of little assistance to the analyst. And lastly, tools and techniques that apply higher levels of critical thinking can substantially improve analysis on complex problems.

Index Medicus

The Wealth of Networks

How Social Production Transforms Markets and Freedom

Yale University Press Describes how patterns of information, knowledge, and cultural production are changing. The author shows that the way information and knowledge are made available can either limit or enlarge the ways people create and express themselves. He describes the range of legal and policy choices that confront.

Qualitative Data Analysis

An Expanded Sourcebook

SAGE The latest edition of this best-selling textbook by Miles and Huberman not only is considerably expanded in content, but is now available in paperback. Bringing the art of qualitative analysis up-to-date, this edition adds hundreds of new techniques, ideas and references developed in the past decade. The increase in the use of computers in qualitative analysis is also reflected in this volume. There is an extensive appendix on criteria to choose from among the currently available analysis packages. Through examples from a host of social science and professional disciplines, Qualitative Data Analysis remains the most comprehensive and complete treatment of this topic currently available to scholars and applied researchers.

Analysis and Visualization of Citation Networks

Morgan & Claypool Publishers Citation analysis—the exploration of reference patterns in the scholarly and scientific literature—has long been applied in a number of social sciences to study research impact, knowledge flows, and knowledge networks. It has important information science applications as well, particularly in knowledge representation and in information retrieval. Recent years have seen a burgeoning interest in citation analysis to help address research, management, or information service issues such as university rankings, research evaluation, or knowledge domain visualization. This renewed and growing interest stems from significant improvements in the availability and accessibility of digital bibliographic data (both citation and full text) and of relevant computer technologies. The former provides large amounts of data and the latter the necessary tools for researchers to conduct new types of large-scale citation analysis, even without special access to special data collections. Exciting new developments are emerging this way in many aspects of citation analysis. This book critically examines both theory and practical techniques of citation network analysis and visualization, one of the two main types of citation analysis (the other being evaluative citation analysis). To set the context for its main theme, the book begins with a discussion of the foundations of citation analysis in general, including an overview of what can and what cannot be done with citation analysis (Chapter 1). An in-depth examination of the generally accepted steps and procedures for citation network analysis follows, including the concepts and techniques that are associated with each step (Chapter 2). Individual issues that are particularly important in citation network analysis are then scrutinized, namely: field delineation and data sources for citation analysis (Chapter 3); disambiguation of names and references (Chapter 4); and visualization of citation networks (Chapter 5). Sufficient technical detail is provided in each chapter so the book can serve as a practical how-to guide to conducting citation network analysis and visualization studies. While the discussion of most of the topics in this book applies to all types of citation analysis, the structure of the text and the details of procedures, examples, and tools covered here are geared to citation network analysis rather than evaluative citation analysis. This conscious choice was based on the authors' observation that, compared to evaluative citation analysis, citation network analysis has not been covered nearly as well by dedicated books, despite the fact that it has not been subject to nearly as much severe criticism and has been substantially enriched in recent years with new theory and techniques from research areas such as network science, social network analysis, or information visualization.

The Network Reshapes the Library

Lorcan Dempsey on Libraries, Services and Networks

American Library Association Since he began posting in 2003, Dempsey has used his blog to explore nearly every important facet of library technology, from the emergence of Web 2.0 as a concept to open source ILS tools and the push to web-scale library management systems.

Machine Learning for Audio, Image and Video Analysis

Theory and Applications

Springer This second edition focuses on audio, image and video data, the three main types of input that machines deal with when interacting with the real world. A set of appendices provides the reader with self-contained introductions to the mathematical background necessary to read the book. Divided into three main parts, From Perception to Computation introduces methodologies aimed at representing the data in forms suitable for computer processing, especially when it comes to audio and images. Whilst the second part, Machine Learning includes an extensive overview of statistical techniques aimed at addressing three main problems, namely classification (automatically assigning a data sample to one of the classes belonging to a predefined set), clustering (automatically grouping data samples according to the similarity of their properties) and sequence analysis (automatically mapping a sequence of observations into a sequence of human-understandable symbols). The third part Applications shows how the abstract problems defined in the second part underlie technologies capable to perform complex tasks such as the recognition of hand gestures or the transcription of handwritten data. Machine Learning for Audio, Image and Video Analysis is suitable for students to acquire a solid background in machine learning as well as for practitioners to deepen their knowledge of the state-of-the-art. All application chapters are based on publicly available data and free software packages, thus allowing readers to replicate the experiments.

The Development of Social Network Analysis

A Study in the Sociology of Science

Createspace Independent Pub Ideas about social structure and social networks are very old. People have always believed that biological and social links among individuals are important. But it wasn't until the early 1930s that systematic research that explored the patterning of social ties linking individuals emerged. And it emerged, not once, but several times in several different social science fields and in several places. This book reviews these developments and explores the social processes that wove all these "schools" of network analysis together into a single coherent approach.

Artificial Intelligence in Asset Management

CFA Institute Research Foundation Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular, AI techniques help construct portfolios based on more accurate risk and return forecasts and more complex constraints. Trading algorithms use AI to devise novel trading signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights from new data sources. Finally, robo-advisors owe a large part of their success to AI techniques. Yet the use of AI can also create new risks and challenges, such as those resulting from model opacity, complexity, and reliance on data integrity.

Neural Networks and Statistical Learning

Springer Nature This book provides a broad yet detailed introduction to neural networks and machine learning in a statistical framework. A single, comprehensive resource for study and further research, it explores the major popular neural network models and statistical learning approaches with examples and exercises and allows readers to gain a practical working understanding of the content. This updated new edition presents recently published results and includes six new chapters that correspond to the recent advances in computational learning theory, sparse coding, deep learning, big data and cloud computing. Each chapter features state-of-the-art descriptions and significant research findings. The topics covered include: • multilayer perceptron; • the Hopfield network; • associative memory models;• clustering models and algorithms; • t he radial basis function network; • recurrent neural networks; • nonnegative matrix factorization; • independent component analysis; •probabilistic and Bayesian networks; and • fuzzy sets and logic. Focusing on the prominent accomplishments and their practical aspects, this book provides academic and technical staff, as well as graduate students and researchers with a solid foundation and comprehensive reference on the fields of neural networks, pattern recognition, signal processing, and machine learning.

Analysis of Biological Networks

John Wiley & Sons An introduction to biological networks and methods for theiranalysis Analysis of Biological Networks is the first book of itskind to provide readers with a comprehensive introduction to thestructural analysis of biological networks at the interface ofbiology and computer science. The book begins with a brief overviewof biological networks and graph theory/graph algorithms and goeson to explore: global network properties, network centralities,network motifs, network clustering, Petri nets, signal transductionand gene regulation networks, protein interaction networks,metabolic networks, phylogenetic networks, ecological networks, andcorrelation networks. Analysis of Biological Networks is a self-containedintroduction to this important research topic, assumes no expertknowledge in computer science or biology, and is accessible toprofessionals and students alike. Each

chapter concludes with asummary of main points and with exercises for readers to test theirunderstanding of the material presented. Additionally, an FTP sitewith links to author-provided data for the book is available fordeeper study. This book is suitable as a resource for researchers in computerscience, biology, bioinformatics, advanced biochemistry, and thelife sciences, and also serves as an ideal reference text forgraduate-level courses in bioinformatics and biologicalresearch.

Sdg 6 Synthesis Report 2018 on Water and Sanitation

Every year at the High-level Political Forum, an annual theme helps an increased focus along with an in-depth review of a selection of Sustainable Development Goals (SDGs). In 2018, SDG 6 on water and sanitation is one of the goals to be reviewed. To provide input to Member States on this goal, UN-Water has produced the SDG 6 Synthesis Report 2018 on Water and Sanitation. This represents a joint position from the UN family on the global status on SDG 6 and other water-related targets. The report also explores the linkages within SDG 6 targets and the interlinkages between SDG 6 and the other targets and indicators. The report builds on the baseline data on SDG 6 global indicators coming from JMP, GEMI and GLAAS.

The Handbook of Research Synthesis and Meta-Analysis

Russell Sage Foundation Research synthesis is the practice of systematically distilling and integrating data from many studies in order to draw more reliable conclusions about a given research issue. When the first edition of The Handbook of Research Synthesis and Meta-Analysis was published in 1994, it quickly became the definitive reference for conducting meta-analyses in both the social and behavioral sciences. In the third edition, editors Harris Cooper, Larry Hedges, and Jeff Valentine present updated versions of classic chapters and add new sections that evaluate cutting-edge developments in the field. The Handbook of Research Synthesis and Meta-Analysis draws upon groundbreaking advances that have transformed research synthesis from a narrative craft into an important scientific process in its own right. The editors and leading scholars guide the reader through every stage of the research synthesis process—problem formulation, literature search and evaluation, statistical integration, and report preparation. The Handbook incorporates state-of-the-art techniques from all quantitative synthesis traditions and distills a vast literature to explain the most effective solutions to the problems of quantitative data integration. Among the statistical issues addressed are the synthesis of non-independent data sets, fixed and random effects methods, the performance of sensitivity analyses and model assessments, the development of machine-based abstract screening, the increased use of meta-regression and the problems of missing data. The Handbook also addresses the non-statistical aspects of research synthesis, including searching the literature and developing schemes for gathering information from study reports. Those engaged in research synthesis will find useful advice on how tables, graphs, and narration can foster communication of the results of research syntheses. The third edition of the Handbook provides comprehensive instruction in the skills necessary to conduct research syntheses and represents the premier text on research synthesis. Praise for the first edition: "The Handbook is a comprehensive treatment of literature synthesis and provides practical advice for anyone deep in the throes of, just teetering on the brink of, or attempting to decipher a meta-analysis. Given the expanding application and importance of literature synthesis, understanding both its strengths and weaknesses is essential for its practitioners and consumers. This volume is a good beginning for those who wish to gain that understanding." —Chance "Meta-analysis, as the statistical analysis of a large collection of results from individual studies is called, has now achieved a status of respectability in medicine. This respectability, when combined with the slight hint of mystique that sometimes surrounds meta-analysis, ensures that results of studies that use it are treated with the respect they deserve....The Handbook of Research Synthesis is one of the most important publications in this subject both as a definitive reference book and a practical manual."—British Medical Journal When the first edition of The Handbook of Research Synthesis was published in 1994, it quickly became the definitive reference for researchers conducting meta-analyses of existing research in both the social and biological sciences. In this fully revised second edition, editors Harris Cooper, Larry Hedges, and Jeff Valentine present updated versions of the Handbook's classic chapters, as well as entirely new sections reporting on the most recent, cutting-edge developments in the field. Research synthesis is the practice of systematically distilling and integrating data from a variety of sources in order to draw more reliable conclusions about a given question or topic. The Handbook of Research Synthesis and Meta-Analysis draws upon years of groundbreaking advances that have transformed research synthesis from a narrative craft into an important scientific process in its own right. Cooper, Hedges, and Valentine have assembled leading authorities in the field to guide the reader through every stage of the research synthesis process—problem formulation, literature search and evaluation, statistical integration, and report preparation. The Handbook of Research Synthesis and Meta-Analysis incorporates state-of-the-art techniques from all quantitative synthesis traditions. Distilling a vast technical literature and many informal sources, the Handbook provides a portfolio of the most effective solutions to the problems of quantitative data integration. Among the statistical issues addressed by the authors are the synthesis of non-independent data sets, fixed and random effects methods, the performance of sensitivity analyses and model assessments, and the problem of missing data. The Handbook of Research Synthesis and Meta-Analysis also provides a rich treatment of the non-statistical aspects of research synthesis. Topics include searching the literature, and developing schemes for gathering information from study reports. Those engaged in research synthesis will also find useful advice on how tables, graphs, and narration can be used to provide the most meaningful communication of the results of research synthesis. In addition, the editors address the potentials and limitations of research synthesis, and its future directions. The past decade has been a period of enormous growth in the field of research synthesis. The second edition Handbook thoroughly revises original chapters to assure that the volume remains the most authoritative source of information for researchers undertaking meta-analysis today. In response to the increasing use of research synthesis in the formation of public policy, the second edition includes a new chapter on both the strengths and limitations of research synthesis in policy debates

Deleuze and Guattari's Anti-Oedipus

Introduction to Schizoanalysis

Routledge Eugene W. Holland provides an excellent introduction to Gilles Deleuze and Felix Guattari's Anti-Oedipus which is widely recognized as one of the most influential texts in philosophy to have appeared in the last thirty years. He lucidly presents the theoretical concerns behind Anti-Oedipus and explores with clarity the diverse influences of Marx, Freud, Nietzsche and Kant on the development of Deleuze & Guattari's thinking. He also examines the wider implications of their work in revitalizing Marxism, environmentalism, feminism and cultural studies.

Meta-Ethnography

Synthesizing Qualitative Studies

SAGE Noblit and Hare propose a method - meta-ethnography - for synthesizing from qualitative, interpretive studies. They show that ethnographies themselves are interpretive acts, and demonstrate that by translating metaphors and key concepts between ethnographic studies, it is possible to develop a broader interpretive synthesis.

A Step-by-Step Guide to Conducting an Integrative Review

Springer Nature This book provides guidance to readers for how to conduct an integrative review. Over the decades, with the expansion of evidence-based practice (EBP), the evolution of methods used in reviews has resulted in a wide spectrum of review types. Due to the overlapping characteristics of the various review methods, confusion exists related to terminology, descriptions and methods of each type. To fill this gap, this book examines components necessary to conduct a rigorous integrative review from formulating questions through dissemination of the results of the review. Each chapter focuses on one component or step in this process and is written in a straightforward and readable manner. An integrative review is considered by many as an actual research study, hence it should be approached following established research methods involving well-defined steps. The integrative review is often compared with the systematic review. Both are used in healthcare research and follow a systematic process in reviewing literature and developing recommendations, but there are important differences that are addressed in the book. Evidence-based practice (EBP) demands high quality, rigorous evidence for nurse clinicians to make informed decisions with and for their patients. In nursing education, the integrative review is a frequent capstone project for graduate students and forms the basis for many doctoral projects. The Integrative review process should be valid, reliable and transparent and this book provides clear guidelines for writing an integrative review for students, educators, clinicians, and researchers. This book is a useful addition to courses for both undergraduate and graduate level writers of integrative reviews. In academia, a likely adoption would be in graduate research and research methods courses, and baccalaureate honor courses.

Logic Synthesis for Low Power VLSI Designs

Springer Science & Business Media Logic Synthesis for Low Power VLSI Designs presents a systematic and comprehensive treatment of power modeling and optimization at the logic level. More precisely, this book provides a detailed presentation of methodologies, algorithms and CAD tools for power modeling, estimation and analysis, synthesis and optimization at the logic level. Logic Synthesis for Low Power VLSI Designs contains detailed descriptions of technology-dependent logic transformations and optimizations, technology decomposition and mapping, and post-mapping structural optimization techniques for low power. It also emphasizes the trade-off techniques for two-level and multi-level logic circuits that involve power dissipation and circuit speed, in the hope that the readers can better understand the issues and ways of achieving their power dissipation goal while meeting the timing constraints. Logic Synthesis for Low Power VLSI Designs is written for VLSI design engineers, CAD professionals, and students who have had a basic knowledge of CMOS digital design and logic synthesis.

The Greenhouse Gas Protocol

A Corporate Accounting and Reporting Standard

World Resources Inst The GHG Protocol Corporate Accounting and Reporting Standard helps companies and other organizations to identify, calculate, and report GHG emissions. It is designed to set the standard for accurate, complete, consistent, relevant and transparent accounting and reporting of GHG emissions.

Umbrella Reviews

Evidence Synthesis with Overviews of Reviews and Meta-Epidemiologic Studies

Springer This book is an ideal guide to umbrella reviews, overviews of reviews, and meta-epidemiologic studies for evidence synthesis. Research is conducted at different levels: primary research consists of original studies while secondary research comprises qualitative reviews, systematic reviews, and meta-analyses. Recently, a novel further level of research has been introduced, based on the analysis and pooling of reviews and meta-analysis. This book is the first to focus solely on this new type of research design, which permits a comprehensive and powerful synthesis of scientific evidence in medicine as well as in many other fields in order to inform decision-making. All aspects are covered, including review design and registration, the searching, abstracting, appraisal, and synthesis of evidence, the appraisal of moderators and confounders, and state of the art reporting. Case studies in a range of medical specialties are then presented. The hands-on approach of the book, written by a multinational team of experts, will enable the reader to interpret and independently conduct umbrella reviews.

A Field Guide to Genetic Programming

Lulu.com Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See www.gp-field-guide.org.uk for more information on the book.

Addressing Adversity

Prioritising adversity and trauma-informed care for children and young people in England.

YoungMinds / Health Education England / Human-Experience An edited collection of papers published by YoungMinds and funded by Health Education England. With 1 in 3 adult mental health conditions related directly to adverse childhood experiences, it is vital that we understand the impact that adversity and trauma can have on the mental health and wellbeing of young people, and how we can strengthen resilience and support recovery. Addressing Adversity presents evidence, insight, direction and case studies for commissioners, providers and practitioners in order to stimulate further growth in adversity and trauma-informed care, and spark innovation and good practice across England. Section 1: Understanding adversity, trauma and resilience includes evidence and analysis of the impact that adverse childhood experiences and trauma have on children and young people's mental health and wider outcomes across the lifecourse. Section 2: Addressing childhood adversity and trauma includes insights from the NHS in England, organisations and clinicians working with children and young people who have experienced forms of adversity and trauma. Section 3: Emerging good practice includes insight, case studies and working examples of adversity and trauma-informed service models being developed across England. The collection ends with an agenda for change, calling on all Directors of Public Health, commissioners and providers to make adversity and trauma-informed care a priority in their locality.

The Art of R Programming

A Tour of Statistical Software Design

No Starch Press R is the world's most popular language for developing statistical software: Archaeologists use it to track the spread of ancient civilizations, drug companies use it to discover which medications are safe and effective, and actuaries use it to assess financial risks and keep economies running smoothly. The Art of R Programming takes you on a guided tour of software development with R, from basic types and data structures to advanced topics like closures, recursion, and anonymous functions. No statistical knowledge is required, and your programming skills can range from hobbyist to pro. Along the way, you'll learn about functional and object-oriented programming, running mathematical simulations, and rearranging complex data into simpler, more useful formats. You'll also learn to: –Create artful graphs to visualize complex data sets and functions –Write more efficient code using parallel R and vectorization –Interface R with C/C++ and Python for increased speed or functionality –Find new R packages for text analysis, image manipulation, and more –Squash annoying bugs with advanced debugging techniques Whether you're designing aircraft, forecasting the weather, or you just need to tame your data, The Art of R Programming is your guide to harnessing the power of statistical computing.

Synthesizing Evidence of Diagnostic Accuracy

Clinicians have long relied upon diagnostic tests for 'evidence' of the presence or absence of a disease or a condition. Similarly, policy makers must evaluate the value of a particular diagnostic test, compare it to any others, and decide which test should be made available or funded. Methods to synthesize evidence from diagnostic test accuracy studies are now emerging and this text examines the methodological basis to the synthesis of diagnostic test accuracy data and describes the processes involved in the conduct of a diagnostic test accuracy systematic review. Although screening studies share some similarities with diagnostic studies and may report similar statistics, screening is typically applied to uncover very early signs of disease or the risk of disease, whereas diagnostic tests are generally applied to individuals with signs or symptoms of disease. Issues of meta-analysis of

screening studies are discussed elsewhere.

Methods of Soil Analysis

Mineralogical methods. Part 5

ASA-CSSA-SSSA The latest installment in the well-received Methods of Soil Analysis series, Methods of Soil Analysis. Part 5. Mineralogical Methods, presents valuable techniques that will enable researchers to analyze mineralogy for a wide variety of applications. An understanding of mineralogical composition provides crucial insight into the fundamental behavior of soils and their response to environmental conditions and management. Highlights include extensive coverage of new techniques, such as X-ray absorption and diffuse reflectance spectroscopy, and updated chapters on thermal analysis and selective dissolution methodologies. Each chapter provides the basic principles of the method, guides the reader through the method itself, and finally assists in the interpretation and analysis of results collected.