Brain Imaging Techniques A Tutorial Study

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Introduction to Neuroimaging Analysis - Mark Jenkinson 2018
This accessible primer gives an introduction to the wide array of MRI-based neuroimaging methods that are used in research. It provides an overview of the fundamentals of what different MRI modalities measure, what artifacts commonly occur, the essentials of the analysis, and common 'pipelines'
Development of Mathematical Cognition - Daniel B. Berch 2015-10-03
Development of Mathematical Cognition: Neural Substrates and Genetic Influences reviews advances in extant imaging modalities and the application of brain stimulation techniques for improving mathematical learning. It goes on to explore the role genetics and environmental influences have in the development of math abilities and disabilities. Focusing on the neural substrates and genetic factors associated with both the typical and atypical development of mathematical thinking and learning, this second volume in the Mathematical Cognition and Learning series integrates the latest in innovative measures and methodological advances from the top researchers in the field. Provides details about new progress made in the study of neural correlates of numerical and arithmetic cognition Addresses recent work in quantitative and molecular genetics Works to improve instruction in numerical, arithmetical, and algebraic thinking and learning Informs policy to help increase the level of mathematical proficiency among the general public
Learning Disabilities, First Edition - Jack M. Fletcher 2006-11-15
This book has been replaced by Learning Disabilities, Second Edition: From Identification to Intervention, ISBN 978-1-4625-3637-5.
Neural Information Processing - Masumi Ishikawa 2008-06-29
The two volume set LNCS 4984 and LNCS 4985 constitutes the thoroughly refereed post-conference proceedings of the 14th International Conference on Neural Information Processing, ICONIP 2007, held in Kitakyushu, Japan, in November 2007, jointly with BRAINIT 2007, the 4th International Conference on Brain-Inspired Information Technology. The 228 revised full papers presented were carefully reviewed and selected from numerous ordinary paper submissions and 15 special organized sessions. The 116 papers of the first volume are organized in topical sections on computational neuroscience, learning and memory, neural network models, supervised/unsupervised/reinforcement learning, statistical learning algorithms, optimization algorithms, novel algorithms, as well as motor control and vision. The second volume contains 112 contributions related to statistical and pattern recognition algorithms, neuromorphic hardware and implementations, robotics, data mining and knowledge discovery, real world applications, cognitive and hybrid intelligent systems, bioinformatics, neuroinformatics, brain-conputer interfaces, and novel approaches.
Magnetic Resonance Brain Imaging - Jörg Polzehl 2019-09-25
This book discusses the modeling and analysis of magnetic resonance imaging (MRI) data acquired from the human brain. The data processing pipelines described rely on R. The book is intended for readers from two communities: Statisticians who are interested in neuroimaging and looking for an introduction to the acquired data and typical scientific problems in the field; and neuroimaging students wanting to learn about the statistical modeling and analysis of MRI data. Offering a practical introduction to the field, the book focuses on those problems in data analysis for which implementations within R are available. It also includes fully worked examples and as such serves as a tutorial on MRI analysis with R, from which the readers can derive their own data processing scripts. The book starts with a short introduction to MRI and then examines the process of reading and writing common neuroimaging data formats to and from the R session. The main chapters cover three common MR imaging modalities and their data modeling and analysis problems: functional MRI, diffusion MRI, and Multi-Parameter Mapping. The book concludes with extended appendices providing details of the non-parametric statistics used and the resources for R and MRI data.The book also addresses the issues of reproducibility and topics like data organization and description, as well as open data and open science. It relies solely on a dynamic report generation with knitr and uses neuroimaging data publicly available in data repositories. The PDF was created executing the R code in the chunks and then running LaTeX, which means that almost all figures, numbers, and results were generated while producing the PDF from the sources.
Advanced Neuroimaging Methods for Studying Autism Disorder - Alessandro Grecucci 2017-11-16
In the last twenty years, many attempts have been made to provide neurobiological models of autism. Functional, structural and connectivity analyses have highlighted reduced responses in key social areas, such as amygdala, medial prefrontal cortex, cingulate cortex, and superior temporal sulcus. However, these studies present discrepant results and some of them have been questioned for methodological limitations. The aim of this research topic is to present advanced neuroimaging methods able to capture the complexity of the neural deficits displayed in autism. This special issue presents new studies using structural and functional MRI, as well as magnetoencephalography, and novel protocols to analyze data (Analysis of Cluster Variability, Noise Reduction Strategies, Source-based Morphometry, Functional Connectivity Density, Restriction Spectrum Imaging and the others). We believe it is time to integrate data provided by different techniques and methodologies in order to have a better understanding of autism.
Knowledge Concepts and Categories - Koen Lamberts 2013-10-28
Knowledge, Concepts and Categories brings together an overview of recent research on concepts and knowledge that abstracts across a variety of specific fields of cognitive psychology. Readers will find data from many different areas: developmental psychology, formal modelling, neuropsychology, connectionism, philosophy, and so on. The book can be divided into three parts. Chapters 1 to 5 each contain a thorough and systematic review of a significant aspect of research on concepts and categories. Chapters 6 to 9 are concerned primarily with issues related to the taxonomy of human knowledge. Finally, Chapters 10 to 12 discuss formal models of categorization and function learning. The purpose of these three chapters is to provide a few examples of current formal modelling of conceptual behaviour. Knowledge, Concepts and Categories will be welcomed by students and researchers in cognitive psychology and related areas as an unusually wide-ranging and authoritative review of an important subfield of psychology.
Electroencephalography - Ernst Niedermeyer 2005
Established in 1982 as the leading reference on electroencephalography, Drs. Niedermeyer's and Lopes da Silva's text is now in its thoroughly updated Fifth Edition. An international group of experts provides comprehensive coverage of the neurophysiologic and technical aspects of EEG, evoked potentials, and magnetoencephalography, as well as the clinical applications of these studies in neonates, infants, children, adults, and older adults. This edition includes digital EEG and advances in areas such as neurocognition. Three new chapters cover the topics of Ultra-Fast EEG Frequencies, Ultra-Slow Activity, and Cortico-Muscular Coherence. Hundreds of EEG tracings and other illustrations complement the text.
Early Childhood and Neuroscience - Links to Development and Learning - Leslie Haley Wasserman

2013-06-03
Information from neuroscience is growing and being properly used, and misused wich makes it imperative that educators receive accurate and practical information. This book provides the accurate and practical information educators (pre-service and in-service) and caregivers serving children birth through age 8 need to know. This volume takes a practical and cautionary stance. It reminds educators to consider the ethical implications of neuroscience when it is applied to education, reviews current findings from neuroscience and reveals the dangers of oversimplification and inappropriate extensions of neuroscience into curricula. It brings together a group of authors with varied expertise writing on an array of inter-related educational topics that will help educators use neuroscience to understand and address the cognitive, emotional, social, and behavioral needs of all young children, including those with exceptionalities. They believe neuroscience can be insightful and useful to educators if applied ethically and with care. The book offers strategies educators and caregivers can use to affect children today and the adults they can become.
Brain Literacy for Educators and Psychologists - Virginia W. Berninger 2002-05-08
A textbook for a pre-service or in-service course teaching basic neuroscience and brain imaging to teachers and other professionals who asses children with school learning problems. It is also suitable as a supplementary text in courses on literacy or numeracy. The purpose is to provide general principles rather than a plethora of facts.
Foundations of Perception - George Mather 2006
Foundations of Perception provides a comprehensive general introduction to perception. All the major and minor senses are covered, not only examining them from a perceptual perspective but also taking into account their biological and physical context. In addition to covering all material essential to understanding the functioning of the senses, each chapter also includes a 'Tutorials' section. This provides an opportunity for more advanced students to explore supplementary information on recent or controversial developments in subjects such as: The physics and biology of audition ; Shape and object perception ; Individual differences in perception.
Materials of the Tutorial Lectures in Systems Science - 2003

Perception - Nicola Bruno 2018-07-26
The world of perception is multisensory. Even a simple task such as judging the position of a light in a dark room depends not only on vision but also on sensory signals about the position of our body in space. Likewise, how we experience food depends on sensory signals originating from the mouth, but also from nose signals, and even vision and hearing. However, traditional books on perception still discuss each of the " separately. This book takes a different stance: it defines perception as intrinsically multisensory from the start and examines multisensory interactions as key process behind how we perceive our own body, control its movements, perceive and recognise objects, respond to edible objects, perceive space, and perceive time. In addition, the book discusses multisensory processing in synaesthesia, multisensory attention, and the role of multisensory processing in learning. As an introduction to multisensory perception, this book is essential reading for students in psychology, philosophy, and neuroscience at the advanced undergraduate to postgraduate levels. As the chapters address topics that are often left out of standard textbooks, this book will also serve as a useful reference for specialist perception scientists and clinicians. Finally, as a monograph understandable to the educated non-specialist this book will also be of interest to professionals who need to take into account multisensory processing in domains such as, for instance, physiotherapy, neurological rehabilitation, human-computer interfaces, marketing, or the design of products and services.
Brain Imaging - Paul C. Lebby 2013-10-02
Brain Imaging: A Guide for Clinicians is designed to provide a foundation of information necessary to those wishing to integrate brain imaging into their practice, or to those that currently review brain scans but have minimal formal training in neuroimaging. The guide covers a range of topics important to those using brain imaging, such as the strengths and weaknesses of the many different techniques currently available, the factors that may influence the use of imaging data, common pitfalls or artifacts that may be misleading to the clinician, the most appropriate techniques to use given a specific clinical question or condition, how to interpret information presented on a brain image, and also how many pathological conditions appear on a variety of brain scanning techniques or sequences. This guide also provides detailed information regarding the identification of primary brain regions, anatomical structures, systems or pathways using both two-dimensional and three-dimensional imaging techniques. A brain atlas is included using both CT and MRI sequences to facilitate the reader's ability to identify most primary brain structures. A novel color-coded system is used throughout this guide to assist the reader in identifying slice locations and orientations. Images with green borders are displayed in the axial plane, with the slice location being shown on other orthogonal image planes by a green line. Similarly, images with a red border are displayed in the coronal plane and those with a blue border are displayed using a sagittal plane; red and blue reference lines are displayed on orthogonal slices to identify the slice location. The crosshairs formed by the color-coded reference lines optimize the reader's ability to identify primary anatomical structures or pathological markers and processes. This book is written in a manner to progress from a general description of the clinical use of brain images and the interpretation of brain scans, to more complex chapters involving neuroanatomy and imaging technology. Real life examples of clinical cases are integrated into all chapters of this guide. Brain Imaging: A Guide for Clinicians provides hundreds of images derived from traumatic and non-traumatic pathologies to provide the reader with examples of conditions most often seen in the clinic. PEARL-PERIL sections outline critical information for the clinician, along with many tables and charts designed to provide general information required when interpreting brain images.
Machine Learning in Neuroscience, Volume II - Reza Lashgari 2022-11-14

Integrated Textbook of Geriatric Mental Health - Donna Cohen 2011-09-01
From this broader perspective, the authors describe the many factors that influence the lives, health, and well-being of older patients and their caregivers, making this an ideal text for psychiatrists, psychologists, nurses, and social workers.
Advanced Computational Intelligence Methods for Processing Brain Imaging Data - Kaijian Xia 2022-11-09

Clinical Electives for Medical and Dental Students at the National Institutes of Health - National Institutes of Health (U.S.) 1985

A Handbook on Stuttering, Seventh Edition - Oliver Bloodstein 2021-06-25
The revised edition of A Handbook on Stuttering continues its remarkable role as the authoritative, first-line resource for researchers and clinicians who work in the field of fluency and stuttering. Now in its seventh edition, this unique book goes beyond merely updating the text to include coverage of roughly 1,000 articles related to stuttering research and practice that have been published since 2008. This extended coverage integrates the more traditional body of research with evolving views of stuttering as a multi-factorial, dynamic disorder. Comprehensive, clear, and accurate, this text provides evidence-based, practical information critical to understanding stuttering. By thoroughly examining the intricacies of the disorder, A Handbook on Stuttering, Seventh Edition lays the foundation needed before considering assessment and treatment. New to the Seventh Edition: * A completely reorganized table of contents, including two new chapters. * The deletion of approximately 1,000 non-peer-reviewed references from the previous edition to assure discussion of the highest quality evidence on stuttering. * New content on the development of stuttering across the lifespan and assessment. * Given the Handbook's historic role as a primary reference for allied professionals, a new chapter that addresses myths and misconceptions about stuttering * Expanded coverage on the role of temperament in childhood stuttering * Expanded coverage of brain-based research, genetics, and treatment findings. * A thoroughly updated chapter on conditions under which stuttering fluctuates * Brief tutorial overviews of critical concepts in genetics, neuroimaging, language analysis and other relevant constructs, to better enable reader appreciation of research findings. * A greater selection of conceptual illustrations of basic concepts and findings than in prior editions * Integrated cross-referencing to content across chapters
Proceedings of the Twenty-fourth Annual Conference of the Cognitive Science Society - Wayne D. Gray 2019-04-24

This volume features the complete text of the material presented at the Twenty-Fourth Annual Conference of the Cognitive Science Society. As in previous years, the symposium included an interesting mixture of papers on many topics from researchers with diverse backgrounds and different goals, presenting a multifaceted view of cognitive science. The volume includes all papers, posters, and summaries of symposia presented at this leading conference that brings cognitive scientists together. The 2002 meeting dealt with issues of representing and modeling cognitive processes as they appeal to scholars in all subdisciplines that comprise cognitive science: psychology, computer science, neuroscience, linguistics, and philosophy.

Tutorials in Diagnostic Radiology for Medical Students - Ciaran E. Redmond 2020-01-09

This book provides a practical guide to diagnostic radiology, with each chapter presenting a case-based tutorial that illustrates a specific aspect of diagnostic radiology required for undergraduate study. In addition, it discusses and assesses issues concerning basic principles in diagnostic radiology, imaging of head trauma, non-traumatic neurological emergencies, chest radiographs, pediatric radiology, and emerging radiological technologies. Tutorials in Diagnostic Radiology for Medical Students is intended as a self-study guide, and offers a valuable asset for medical students and trainee radiologists, as well as educators.

New Perspectives in Partial Least Squares and Related Methods - Herve Abdi 2013-10-17

New Perspectives in Partial Least Squares and Related Methods shares original, peer-reviewed research from presentations during the 2012 partial least squares methods meeting (PLS 2012). This was the 7th meeting in the series of PLS conferences and the first to take place in the USA. PLS is an abbreviation for Partial Least Squares and is also sometimes expanded as projection to latent structures. This is an approach for modeling relations between data matrices of different types of variables measured on the same set of objects. The twenty-two papers in this volume, which include three invited contributions from our keynote speakers, provide a comprehensive overview of the current state of the most advanced research related to PLS and related methods. Prominent scientists from around the world took part in PLS 2012 and their contributions covered the multiple dimensions of the partial least squares-based methods. These exciting theoretical developments ranged from partial least squares regression and correlation, component based path modeling to regularized regression and subspace visualization. In following the tradition of the six previous PLS meetings, these contributions also included a large variety of PLS approaches such as PLS metamodels, variable selection, sparse PLS regression, distance based PLS, significance vs. reliability, and non-linear PLS. Finally, these contributions applied PLS methods to data originating from the traditional econometric/economic data to genomics data, brain images, information systems, epidemiology, and chemical spectroscopy. Such a broad and comprehensive volume will also encourage new uses of PLS models in work by researchers and students in many fields.

A Short Guide to Brain Imaging - R. E. Passingham 2016

Brain imaging has revolutionised the field of Psychology - once more concerned with IQ tests, reaction times and questionnaires. Most Psychology departments now have access to an MRI scanner - some have even renamed themselves as departments of cognitive neuroscience. Yet brain imaging can be a minefield, whichever discipline you approach it from. If you are a psychologist, you will have been taught how to do behavioural experiments, but may know little neuroanatomy or neurophysiology. If you are a neurologist or psychiatrist, then you may know the neuroanatomy and neurophysiology, but not know how to carry out experiments on mental phenomena. This is a practical guide to brain imaging, showing how it can advance a true neuroscience of human cognition. It is accessible to those starting out in imaging, whilst also informative for those who have already acquired some expertise. At the heart of the book are 6 main chapters, focusing on - the signal, experimental methods, anatomy, functional specialisation, functional systems, and other methods. For students and researchers in psychology and neuroscience, this is the essential companion when embarking on brain imaging studies.

Handbook of Pediatric Brain Imaging - Hao Huang 2021-10-27

Handbook of Pediatric Brain Imaging: Methods and Applications presents state-of-the-art research on pediatric brain image acquisition and analysis from a broad range of imaging modalities, including MRI, EEG, MEG, PET, Ultrasound, NIRS and CT. With rapidly developing methods and applications of MRI, this book strongly emphasizes pediatric brain MRI, elaborating on the sub-categories of structure MRI, diffusion MRI, functional MRI, perfusion MRI and other MRI methods. It integrates a pediatric brain imaging perspective into imaging acquisition and analysis methods, covering head motion, small brain sizes, small cerebral blood flow of neonates, dynamic cortical gyrification, white matter tract growth, and much more. Presents state-of-the-art pediatric brain imaging methods and applications Shows how to optimize the pediatric neuroimaging acquisition and analysis protocols Illustrates how to obtain quantitative structural, functional and physiological measurements

Brain Imaging Methods Editor’s Pick 2021 - Vince D. Calhoun 2021-07-01

Neuroethics - Judy Illes 2017

Over the last decade, there have been unparalleled advances in our understanding of brain sciences. In this volume on neuroethics, a distinguished group of contributors from a range of disciplines discuss the ethical implications of this newfound knowledge and set out the many necessary considerations for the future.

Individualized Assessment of Brain Aging across the Lifespan: Applications in Health and Disease - Katja Franke 2020-08-10

Handbook of Research Methods in Human Memory - Hajime Otani 2018-10-09

The Handbook of Research Methods in Human Memory presents a collection of chapters on methodology used by researchers in investigating human memory. Understanding the basic cognitive function of human memory is critical in a wide variety of fields, such as clinical psychology, developmental psychology, education, neuroscience, and gerontology, and studying memory has become particularly urgent in recent years due to the prominence of a number of neurodegenerative diseases, such as Alzheimer’s. However, choosing the most appropriate method of research is a daunting task for most scholars. This book explores the methods that are currently available in various areas of human memory research and serves as a reference manual to help guide readers’ own research. Each chapter is written by prominent researchers and features cutting-edge research on human memory and cognition, with topics ranging from basic memory processes to cognitive neuroscience to further applications. The focus here is not on the "what," but the "how"—how research is best conducted on human memory.

Handbook of Deep Learning in Biomedical Engineering - Valentina Emilia Balas 2020-11-12

Deep Learning (DL) is a method of machine learning, running over Artificial Neural Networks, that uses multiple layers to extract high-level features from large amounts of raw data. Deep Learning methods apply levels of learning to transform input data into more abstract and composite information. Handbook for Deep Learning in Biomedical Engineering: Techniques and Applications gives readers a complete overview of the essential concepts of Deep Learning and its applications in the field of Biomedical Engineering. Deep learning has been rapidly developed in recent years, in terms of both methodological constructs and practical applications. Deep Learning provides computational models of multiple processing layers to learn and represent data with higher levels of abstraction. It is able to implicitly capture intricate structures of large-scale data and is ideally suited to many of the hardware architectures that are currently available. The ever-expanding amount of data that can be gathered through biomedical and clinical information sensing devices necessitates the development of machine learning and AI techniques such as Deep Learning and Convolutional Neural Networks to process and evaluate the data. Some examples of biomedical and clinical sensing devices that use Deep Learning include: Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasound, Single Photon Emission Computed Tomography (SPECT), Positron Emission Tomography (PET), Magnetic Particle Imaging, EE/MEG, Optical Microscopy and Tomography, Photoacoustic Tomography, Electron Tomography, and Atomic Force Microscopy. Handbook for Deep Learning in Biomedical Engineering: Techniques and Applications provides the most complete coverage of Deep Learning applications in biomedical engineering available, including detailed real-world applications in areas such as computational neuroscience, neuroimaging, data fusion, medical image processing, neurological disorder diagnosis for diseases such as Alzheimer’s, ADHD, and ASD, tumor prediction, as well as translational multimodal imaging analysis. Presents a comprehensive handbook of the biomedical engineering applications of DL, including computational neuroscience, neuroimaging, time series data such as MRI, functional MRI, CT, EEG, MEG, and data fusion of biomedical imaging data from

disparate sources, such as X-Ray/CT Helps readers understand key concepts in DL applications for biomedical engineering and health care, including manifold learning, classification, clustering, and regression in neuroimaging data analysis Provides readers with key DL development techniques such as creation of algorithms and application of DL through artificial neural networks and convolutional neural networks Includes coverage of key application areas of DL such as early diagnosis of specific diseases such as Alzheimer's, ADHD, and ASD, and tumor prediction through MRI and translational multimodality imaging and biomedical applications such as detection, diagnostic analysis, quantitative measurements, and image guidance of ultrasonography

Decision Making, Affect, and Learning - Mauricio R. Delgado 2011-03-24

This latest volume in the critically acclaimed and highly influential Attention and Performance series focuses on two of the fastest moving research areas in cognitive and affective neuroscience - decision making and emotional processing. Decision Making, Affect, and Learning investigates the psychological and neural systems underlying decision making, and the relationship with reward, affect, and learning. In addition, it considers neurodevelopmental and clinical aspects of these issues - for example the role of decision making and reward in drug addiction. It also looks at the applied aspects of this knowledge to other disciplines, including the growing field of Neuroeconomics. After an introductory chapter from the Volume editors, the book is then arranged according to the following themes: Psychological Processes underlying decision-making. Neural systems of decision-making Neural systems of emotion, reward and learning Neurodevelopmental and clinical aspects Superbly written and edited, the book highlights the complex interplay between emotional and decision-making processes and their relationship with learning.

Electrical Neuroimaging - Christoph M. Michel 2009-07-23

Electrical neuroimaging is based on the analysis of brain electrical activity recorded from the human scalp with multichannel EEG. It offers enormous potential for the dynamic mapping of brain functions, and for the non-invasive diagnosis of neurological and psychiatric conditions. This authoritative reference gives a systematic overview of new electrical imaging methods, with a sound introduction to the basics of multichannel recording of EEG and event-related potential (ERP) data, as well as spatio-temporal analysis of the potential fields. The book enables researchers to measure valid data, select and apply appropriate analysis strategies, and avoid the most common mistakes when analyzing and interpreting EEG/ERP data. Importantly, it informs the research communities of the possibilities opened by these space-domain oriented approaches to the analysis of brain electrical activity, and of their potential to offer even more powerful diagnostic techniques when integrated with other clinically relevant data.

Higher Level Language Processes in the Brain - Franz Schmalhofer 2012-12-06

Higher Level Language Processes in the Brain is a groundbreaking book that explains how behavior research, computational models, and brain imaging results can be unified in the study of human comprehension. The volume illustrates the most comprehensive and newest findings on the topic. Each section of the book nurtures the theoretical and practical integration of behavioral, computational, and brain imaging studies along a different avenue, and each is supplementary. Readers with limited background knowledge on the methods are presented with an easy-to-read, state-of-the-art exposition that is conceptualized and written from a well-established point of view. Higher Level Language Processes in the Brain is intended for advanced undergraduate and graduate cognitive science students, as well as researchers and practitioners who seek to learn and apply scientific knowledge about human comprehension to reading analysis.

Handbook of Neuroimaging Data Analysis - Hernando Ombao 2016-11-18

This book explores various state-of-the-art aspects behind the statistical analysis of neuroimaging data. It examines the development of novel statistical approaches to model brain data. Designed for researchers in statistics, biostatistics, computer science, cognitive science, computer engineering, biomedical engineering, applied mathematics, physics, and radiology, the book can also be used as a textbook for graduate-level courses in statistics and biostatistics or as a self-study reference for Ph.D. students in statistics, biostatistics, psychology, neuroscience, and computer science.

Graph Learning for Brain Imaging - Feng Liu 2022-09-30

Proceedings of the International Conference on Computing and Communication Systems - J. K. Mandal 2018-03-29

The volume contains latest research work presented at International Conference on Computing and Communication Systems (I3CS 2016) held at North Eastern Hill University (NEHU), Shillong, India. The book presents original research results, new ideas and practical development experiences which concentrate on both theory and practices. It includes papers from all areas of information technology, computer science, electronics and communication engineering written by researchers, scientists, engineers and scholar students and experts from India and abroad.

Cumulated Index Medicus - 2000

Social Exclusion - Paolo Riva 2016-07-26

From ostracism on the playground to romantic rejection, bullying at work, and social disregard for the aged, individuals are at constant risk of experiencing instances of social exclusion, including ostracism, rejection, dehumanization, and discrimination. These phenomena have a powerful impact as testified by their immediate influence on people's thoughts, emotions, and behaviors. Social Exclusion: Psychological Approaches to Understanding and Reducing Its Impact investigates different psychological approaches, across multiple psychological subdisciplines, to understanding the causes and consequences of social exclusion and possible ways to reduce or buffer against its negative effects. The purpose of this volume is threefold. First, it lays the groundwork for the understanding of social exclusion research; reviewing the different instances of social exclusion in everyday life and methods to experimentally investigate them. Second, this volume brings together different psychological approaches to the topic of social exclusion. Leading scholars from around the world contribute perspectives from social psychology, social neuroscience, developmental psychology, educational psychology, work and organizational psychology, clinical psychology, and social gerontology to provide a comprehensive overview of social exclusion research in different psychological subdisciplines. Taken together, these chapters are conducive to the important development of new and more integrative research models on social exclusion. Finally, this volume discusses psychological strategies such as emotion regulation, psychological resources, and brain mechanisms that can reduce or buffer against the negative consequences of social exclusion. From school shootings to domestic violence, from cognitive impairment to suicide attempts, the negative impact of social exclusion has been widely documented. Thus, from an applied perspective, knowing potential ways to mitigate the negative effects of social exclusion can have a significant positive influence on people's—and society's—well-being. Overall, this book provides the reader with the knowledge to understand the impact of social exclusion and with tools to address it across many different contexts. Importantly, Social Exclusion: Psychological Approaches to Understanding and Reducing Its Impact aims to bridge the gap between the approaches of different psychological subdisciplines to this topic, working towards a comprehensive, integrative model of social exclusion.

The Cardiovascular MRI Tutorial - Robert W. Biederman, M.D. 2008

This text/DVD package is ideally suited for training courses for cardiologists and radiologists seeking certification to perform and interpret cardiovascular MRI (CMR) examinations. The authors present 37 lectures that systematically explain all key aspects of CMR. Coverage begins with an overview of principles, equipment, and imaging methods and proceeds to imaging protocols and clinical applications. An Advanced Training section includes details of imaging techniques, vascular imaging techniques, specialized cardiac imaging, and artifacts. The text and the PowerPoint lectures on the DVD complement each other in a unique way. The book mirrors the content of the lectures and provides full explanations of concepts that are well illustrated in the slides. DVD for Windows (PC only; Mac is available upon request).

Psychoradiology, An Issue of Neuroimaging Clinics of North America, Ebook - Qiyong Gong 2019-12-03

This issue of Neuroimaging Clinics of North America focuses on Psychoradiology, and is edited by Dr. Qiyong Gong. Articles will include: Clinical Strategies and Technical Challenges in Psychoradiology; Resting State Functional MRI for Psychiatry; Magnetic Resonance Spectroscopy for Psychiatry; Psychoradiology of Major Depression; Psychoradiological Biomarkers for Psychopharmaceutical Effects; Implementing Imaging into Clinical Routine Screening for Psychosis; Imaging of Autism; Individual-specific

Analysis for Psychoradiology; Interventional Psychoradiology: Imaging Guided Therapeutic Intervention of Neuropsychiatric Disorders; Imaging-based Subtyping for Psychiatric Syndromes; Imaging of Post-Traumatic Stress Disorder; Imaging of Schizophrenia; and more!

Social and Affective Neuroscience of Everyday Human Interaction - Paulo Sérgio Boggio 2022-12-30

This Open Access book presents the current state of the art knowledge on social and affective neuroscience based on empirical findings. This volume is divided into several sections first guiding the reader through important theoretical topics within affective neuroscience, social neuroscience and moral emotions, and clinical neuroscience. Each chapter addresses everyday social interactions and various aspects of social interactions from a different angle taking the reader on a diverse journey. The last section of the book is of methodological nature. Basic information is presented for the reader to learn about common methodologies used in neuroscience alongside advanced input to deepen the understanding and usability of these methods in social and affective neuroscience for more experienced readers.