

Cognitive Rehabilitation Attention And Neglect

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The Two Halves of the Brain - Kenneth Hugdahl 2010

State-of-the-art research on brain asymmetry, explained from molecular to clinical levels.

Neuropsychological Rehabilitation - Chad A. Noggle, PhD, ABN 2013-04-26

"Neuropsychological Rehabilitation provides useful introductory material and background information on various disorders, assessments, and rehabilitative interventions for adult and geriatric populations... This book is essential for psychologists or clinical neuropsychologists who have a strong interest in understanding the current medical aspects of neuropsychological rehabilitation." --PsycCRITIQUES This volume disseminates knowledge about the most advanced practices and techniques in the rehabilitation of neuropsychological deficits, covering both specific neuropsychological domains and approaches in neurorehabilitation. It adheres to the philosophy that it is not enough to identify a deficit or diagnose a disease unless doing so helps to direct rehabilitation efforts to improve function. Intended to advance clinical skills, the book goes beyond surface diagnostic practice to foster rehabilitative efforts in response to residual deficits and disease. The volume begins by addressing the foundations of neuropsychology in rehabilitation and discussing, in depth, domain-specific rehabilitation practices, with a focus on functioning. This is followed by a discussion of supplemental applications and practices that go beyond function-specific

methodology including neuroimaging and pharmacological agents. Also covered is the role of system/environmental manipulation and transitioning strategies. The final section attends to those presentations/groupings most commonly seen in rehabilitation practice for which there is no prototypical form. Key Features: Presents in depth the most advanced clinical applications for neuropsychological rehabilitation Covers neuropsychological rehabilitation in terms of specific cognitive domains (attention, language, memory) and approaches to and practices in neurorehabilitation (neuroimaging, vocational rehabilitation, pharmacological rehabilitation) Written by the foremost scholars in the field

Functional Rehabilitation of Some Common Neurological Conditions -

Sayed Ahmed MCSP. 2019-03-01

A kinematic motor organisation which is crucial for performing different functional tasks is mediated by a distinct motor functional architecture of the central nervous system. A breakdown of this architectural network occurs in most neurological condition with motor impairment. Therefore a planned physical intervention to restore impaired structure architectural network of the brain is essential for the functional recovery. This book has dealt with four common conditions and for each condition it has identified structure of architectural network is damaged. Then the intervention strategy has elaborated the some of the precisely shaped stimulation that

can restore the impaired structure, which has used wide range of research based evidences.

Neurovascular Neuropsychology - Joanne Festa 2009-06-12

Neurovascular diseases and conditions, and their associated risk factors, represent a significant cause of cognitive disability in the United States and throughout the world. In the USA alone there are 750,000 new strokes each year, representing the number one cause of disability in the country. Hypertension, found in approximately 50 million Americans, has been shown to be associated with alterations of cognitive function, even in the absence of stroke and dementia. Recent studies of neurovascular disease have now revealed that neuropsychological function may be a more sensitive measure of brain integrity than coordination, motor or sensory function and correlates well with functional outcome measures.

Neurovascular Neuropsychology focuses on focal and diffuse neurovascular disease in addition to systemic conditions in which cognition and behavior have been uniquely associated with different pathologic states. With an increasing number of patients being treated by healthcare professionals, *Neurovascular Neuropsychology* will prove to be a strong reference to consult in regards to neuropsychological syndromes.

Cognitive Rehabilitation Manual - Edmund C. Haskins Ph. D. 2012

Translating Evidence-Based Recommendations into Practice is a significant contribution to the field of brain injury rehabilitation. Never before have research outcomes been so accessible for use in everyday clinical practice. The Manual -- all 150 pages, including clinical forms -- is a practical guide for the implementation of evidence-based interventions for impairments of executive functions, memory, attention, hemispatial neglect, and social communication.

Neurorehabilitation Therapy and Therapeutics - Krishanan Padmakumari Sivaraman Nair 2018-10-31

Cognitive impairment, dysphagia, communication issues, pain, spasticity, bladder dysfunction, sexual dysfunction and bowel incontinence are but a few problems frequently reported by individuals living with long-term neurological conditions. The management of long-term neurological conditions requires co-ordinated inputs from multiple disciplines, and this

practical handbook facilitates this by combining physical, cognitive and psychological strategies to patient management. Featuring contributions from leading experts in neurology, health services and clinical rehabilitation, this book is a comprehensive overview of common neurological impairments and solutions. It adopts an evidence-based approach to both pharmacological and non-pharmacological options for alleviating neurological symptoms. An easy-to-refer to guide, bridging multiple disciplines, aided by current research, to provide effective, and practical management for all aspects and issues arising in the rehabilitation phases of the neurological patient. This unique pocketbook is intended for practitioners at all levels; ideally suited as a quick guide during ward rounds, out-patient clinics and therapy sessions.

Understanding Traumatic Brain Injury - Harvey S. Levin 2014

Progress in research on traumatic brain injury is presented in this book encompassing translational and clinical investigations. Observational and interventional studies are discussed by leading investigators of TBI in adults and children. Contributors from various countries provide a global perspective on this worldwide health problem.

Neuropsychology for Occupational Therapists - Linda Maskill 2017-02-02

Neuropsychology for Occupational Therapists is a bestselling, comprehensive guide to the assessment and rehabilitation of impaired cognitive function and brain damage. Divided into two parts, the first introduces the fundamental role cognition has in occupational performance, before moving on to examine the theoretical frameworks behind cognitive rehabilitation. The second part covers the key components of each cognitive function, including attention, visual perception, movement, memory, and executive functions, and the disorders associated with them. Revised throughout, this invaluable new edition includes: Updated theory and evidence base of neuropsychology Frameworks and guidelines for assessment and intervention in practice Updated content on attention, memory and executive functions A new chapter on cognitive function in later years, and working with people to maintain cognitive health. Written in a clear and engaging style by an

experienced author team of academic occupational therapists, with contributions from expert practising clinicians, it is full of a range of learning features, including case studies, summaries, and reflective activities, as well as for the first time narratives of the lived experience of cognitive impairment. *Neuropsychology for Occupational Therapists* is essential reading for students, newly qualified practitioners, and all those who work within neuropsychology and cognitive rehabilitation.

Non-Invasive Brain Stimulation - Carlo Miniussi 2012

This book includes state-of-the art reviews, written by research leaders, of Non-Invasive Brain-Stimulation (NIBS) techniques for the cognitive rehabilitation of disorders of memory, language, perception, attention and executive functions.

Attention in a Social World - Michael I. Posner 2012-01-19

This volume summarizes the research on the brain mechanisms of attention, especially those from human imaging studies. Michael I. Posner places this research in the context of human development, educational applications, and brain pathology.

Neuropsychological Rehabilitation - Jamuna Rajeswaran 2012-09

Traumatic Brain Injury (TBI) can occur through road traffic incidents, falls, or violence, and is therefore an extremely prevalent type of injury, constituting a significant burden on health care around the world. As more people are able to recover physically from TBI, it is important to consider how to help repair the cognitive functions of the brain. The cognitive functions could be greatly maximized by appropriate Neuropsychological rehabilitation, which occurs within months of the damage. This book discusses both the theoretical and practical applications of Neuropsychological rehabilitation techniques, offering a comprehensive overview of the process. Using several case studies from India, gained over years of clinical practice, research and academic teaching, this book offers an excellent guide to the procedures and tasks needed to respond effectively to patients with TBI. Although focused on the Indian context, this book will appeal to students and practitioners around the world as a useful resource on Neuropsychological rehabilitation techniques in India. Innovative approach to Neuropsychological Rehabilitation using case

vignettes Theoretical and Clinical subject matter

Cognitive Rehabilitation for Pediatric Neurological Disorders - Gianna Locascio 2018-08-02

Responding to expansion in the field of cognitive rehabilitation, this book offers a comprehensive review of interventions specifically for children and adolescents. Recent advances in research into pediatric cognitive rehabilitation make this a timely guide to the subject. Incorporating and reviewing current evidence to strengthen and consolidate the resource base for pediatric clinical care in cognitive rehabilitation, this book offers a reliable and engaging text for best practice. Systematic interventions to ameliorate the impact of cognitive difficulties following neurological injury, such as traumatic brain injury (TBI), stroke and brain tumor, can involve cognitive, behavioral, or pharmacologic methods. Case studies and practical guidance are included, to support the effective management and enhancement of cognitive recovery in children and adolescents. This book acts as a resource for professionals of all disciplines interested in understanding the existing evidence base for cognitive rehabilitation interventions for children and adolescents, featuring practical day-to-day professional support.

Clinical Pathways in Stroke Rehabilitation - Thomas Platz 2021-01-14

This open access book focuses on practical clinical problems that are frequently encountered in stroke rehabilitation. Consequences of diseases, e.g. impairments and activity limitations, are addressed in rehabilitation with the overall goal to reduce disability and promote participation. Based on the available best external evidence, clinical pathways are described for stroke rehabilitation bridging the gap between clinical evidence and clinical decision-making. The clinical pathways answer the questions which rehabilitation treatment options are beneficial to overcome specific impairment constellations and activity limitations and are well acceptable to stroke survivors, as well as when and in which settings to provide rehabilitation over the course of recovery post stroke. Each chapter starts with a description of the clinical problem encountered. This is followed by a systematic, but concise review of the evidence (RCTs, systematic reviews and meta-analyses) that is relevant for clinical

decision-making, and comments on assessment, therapy (training, technology, medication), and the use of technical aids as appropriate. Based on these summaries, clinical algorithms / pathways are provided and the main clinical-decision situations are portrayed. The book is invaluable for all neurorehabilitation team members, clinicians, nurses, and therapists in neurology, physical medicine and rehabilitation, and related fields. It is a World Federation for NeuroRehabilitation (WFNR) educational initiative, bridging the gap between the rapidly expanding clinical research in stroke rehabilitation and clinical practice across societies and continents. It can be used for both clinical decision-making for individuals and as well as clinical background knowledge for stroke rehabilitation service development initiatives.

The Neuropsychology of Attention - Ronald A. Cohen 2013-12-11

It has been 15 years since the original publication of *Neuropsychology of Attention*. At the time of its publication, attention was a construct that had long been of theoretical interest in the field of psychology and was receiving increased research by cognitive scientists. Yet, attention was typically viewed as a nuisance variable; a factor that needed to be accounted for when assessing brain function, but of limited importance in its own right. There is a need for a new edition of this book within Neuropsychology to present an updated and integrated review of what is known about attention, the disorders that affect it, and approaches to its clinical assessment and treatment. Such a book will provide perspectives for experimental neuropsychological study of attention and also provide clinicians with insights on how to approach this neuropsychological domain.

Spatial Neglect - Peter W Halligan 2014-01-14

Spatial neglect is a profound clinical problem as well as intriguing scientific problem. In the last ten years, there has been an explosion of interest in this disorder, which as a result is no longer viewed as a single entity, but rather as a number of different disorders. This book is an attempt to bring the reader up to date with the latest advances in understanding neglect, at least insofar as this contributes to better clinical assessment, management and treatment. This is not a book for the

specialist researcher in the neuropsychology of neglect and attention. Rather, it is a book aimed at clinicians - student and trained - from all disciplines involved in the assessment, management and treatment of neglect. The book begins with the description of four cases manifesting different types of unilateral neglect. The reader is introduced to different aspects of neglect through these patients. These distinctions include those between personal and extrapersonal neglect, motor versus sensory neglect and many others. The reader is also introduced to other phenomena that are closely related to neglect, including anosognosia and impaired sustained attention. The latest methods of assessment of neglect are also described, as are methods of treatment, again with reference to the four introductory specimen cases.

The Paradoxical Brain - Narinder Kapur 2011-07-21

The Paradoxical Brain focuses on a range of phenomena in clinical and cognitive neuroscience that are counterintuitive and go against the grain of established thinking. The book covers a wide range of topics by leading researchers, including: • Superior performance after brain lesions or sensory loss • Return to normal function after a second brain lesion in neurological conditions • Paradoxical phenomena associated with human development • Examples where having one disease appears to prevent the occurrence of another disease • Situations where drugs with adverse effects on brain functioning may have beneficial effects in certain situations A better understanding of these interactions will lead to a better understanding of brain function and to the introduction of new therapeutic strategies. The book will be of interest to those working at the interface of brain and behaviour, including neuropsychologists, neurologists, psychiatrists and neuroscientists.

Neural Control of Space Coding and Action Production - C. Prablanc 2003-02-28

Clinical neuropsychology has evolved by integrating in its field the knowledge derived from neuroanatomical, electrophysiological and psychophysical data, and has led to the development of rehabilitation tools. This volume tries to link the new concepts and discoveries in the field of sensorimotor coordination. It contains the main contributions of

participants of an international symposium held in Lyon in 2001 entitled "Neural control of space coding and action production". The book emphasizes the reciprocal relationship between perception and action, and the essential role of active sensorimotor organization or reorganization in building up perceptual and motor representations of the self and of the external world.

Attention Disorders After Right Brain Damage - Paolo Bartolomeo

2013-12-16

This book provides an overview of attentional impairments in brain-damaged patients from both clinical and neuroscientific perspectives, and aims to offer a comprehensive, succinct treatment of these topics useful to both clinicians and scholars. A main focus of the book concerns left visual neglect, a dramatic but often overlooked consequence of right hemisphere damage, usually of vascular origin, but also resulting from other causes such as neurodegenerative conditions. The study of neglect offers a key to understand the brain's functioning at the level of large-scale networks, and not only based on discrete anatomical structures. Patients are often unaware of their deficits (anosognosia), and often obstinately deny being hemiplegic. Diagnosis is important because neglect predicts poor functional outcome in stroke. Moreover, effective rehabilitation strategies are available, and there are promising possibilities for pharmacological treatments. *Attention Disorders After Right Brain Damage* is aimed at clinical neurologists, medics in physical medicine and rehabilitation, clinical psychologists and neuropsychologists. It will also be useful for graduate students and medical students who wish to understand the topic of attention systems and improve their knowledge of the neurocognitive mechanisms of attentional deficits. In addition, clinical researchers in neuropsychology and cognitive neuroscience will find in this book an up to date overview of current research dealing with the attention systems of the human brain.

The Effectiveness of Rehabilitation for Cognitive Deficits - Peter W. Halligan 2005

"In this book, some of the leading clinicians and cognitive neuroscientists consider the effectiveness of cognitive rehabilitation. They situate the

issues within an overall context that considers the different types and levels of diagnosis and assessment, the adequacy of underlying cognitive theory for rehabilitation, and more importantly, the clinical effectiveness of current treatments to improve functional recovery. By employing an evidence-based approach that critically evaluates the published literature, the book provides for a better understanding of the strengths and limitations of the cognitive approach and hopefully a more realistic expectation of its outcome for patients with neurological deficits." "The book will serve as a valuable source for a wide spectrum of professionals who deal with the neuropsychological and neurological effects of brain damage."--BOOK JACKET.

Mind-Brain Plasticity and Rehabilitation of Cognitive Functions: What Techniques Have Been Proven Effective? - Katuscia Sacco 2017-05-25

Handbook of Medical Neuropsychology - Carol L. Armstrong 2019-09-03

This ambitious and important second edition of the *Handbook of Medical Neuropsychology* takes an in-depth approach to the medical conditions and methods of neurorehabilitation. Comprehensive in scope and highly detailed in its coverage, the second edition, like the first, characterizes the effects of disease and the impact of interventions in the current state of advanced medicine at a level appropriate both for researchers and for clinicians. Featuring the most up-to-date information and quantitative research on cognitive neuroscience of autism, HIV/AIDS, cancer, head injury, respiratory diseases, endocrine diseases, early birth injury, dementia, and other disorders, the book handles theory, historical background, practical considerations, and controversial areas with evidence based disease indicators, clinical expertise, and real-world insight. It seeks to critique diagnostic and assessment tools specific to disorders. The new chapters in this inclusive second edition reflect the changes in prominent problems found in the clinic and provide worthy insights for research investigation in their review of: Substance use disorders. Nutrition in neurocognition and mental health. Hypothyroidism and Hashimoto's thyroiditis. Traumatic brain injury in very early childhood. Cognitive functioning in asthma. The role of mindfulness in

neurorehabilitation. The Handbook of Medical Neuropsychology, 2nd Edition continues to be an essential resource for the neuropsychology clinician, researcher, practitioner or graduate student. It will be stimulating and relevant reading for years to come.

THE EFFECTS OF COMPUTER BASED COGNITIVE REHABILITATION IN PATIENTS WITH SYMPTOMS OF VISUOSPATIAL NEGLECT OR HEMIANSOPHIA AFTER STROKE: A RANDOMIZED, CONTROLLED, UNBLINDED CROSS-OVER PILOT-STUDY - Katrine Svaerke 2017

Background and Aims To address the effects of Computer Based Cognitive Rehabilitation (CBCR) in patients with visuospatial neglect and/or hemianopia in the subacute phase after stroke. Method CBCR was delivered by a commercially available program: u2018Scientific Braintraining PROu2019 designed to train visuospatial attention and mental rotation. Fourteen patients were randomly assigned to early or late CBCR intervention targeting visuospatial symptoms in a cross-over design. All patients were included within 40 days of stroke onset. The early intervention group (EI group) received CBCR starting immediately after inclusion for three weeks, and the late intervention group (LI group) started a 3-week CBCR intervention 3 weeks after inclusion. Attention was assessed by the CABPad Butterfly test at baseline, 3 weeks and 6 weeks. Results Groups were balanced on baseline characteristics. The EI group showed a significant reduction in neglect score between baseline and after training ($p=0.018$), while the neglect score did not change significantly in the LI group, neither during the waiting list period nor during training, though an insignificant trend in this direction was observed. The LI group did not improve during their no-training period ($p=0.237$) nor during their CBCR intervention period ($p=0.116$). The difference in improvement during training periods was not significant between the EI and LI group ($p=0.259$). Conclusion CBCR improved visuospatial symptoms after stroke significantly, especially when administered early in the subacute phase after stroke. The study was small and confirmation is needed.

The Oxford Handbook of Attention - Kia Nobre 2018

During the last three decades, there have been enormous advances in our

understanding of the neural mechanisms of selective attention at the network as well as the cellular level. The Oxford Handbook of Attention brings together the different research areas that constitute contemporary attention research into one comprehensive and authoritative volume. In 40 chapters, it covers the most important aspects of attention research from the areas of cognitive psychology, neuropsychology, human and animal neuroscience, computational modelling, and philosophy. The book is divided into 4 main sections. Following an introduction from Michael Posner, the book starts by looking at theoretical models of attention. The next two sections are dedicated to spatial attention and non-spatial attention respectively. Within section 4, the authors consider the interactions between attention and other psychological domains. The last two sections focus on attention-related disorders, and finally, on computational models of attention. Aimed at both scholars and students, the Oxford Handbook of Attention provides a concise and state-of-the-art review of the current literature in this field.

Novel insights in rehabilitation of neglect, 2nd Edition - Stefan Van Der Stigchel 2015-01-09

Hemispatial neglect is the failure to report, respond to, or orient to novel or meaningful stimuli presented in the contralesional visual field. It constitutes one of the most invalidating neurological disorders that can occur after stroke. It is therefore important to treat neglect as adequately as possible and much of the research dedicated to neglect therefore focuses on rehabilitation. In this special topic, you will find 29 articles on the rehabilitation of neglect. This Research Topic has opened new perspectives, and has given us an indication of where the field is going. Although some of the current rehabilitation techniques have proven to be beneficial, there is limited agreement on the most valuable technique or the mechanisms underlying the ameliorating effects.

Textbook of Neural Repair and Rehabilitation - Michael Selzer 2014-04-24
Volume 1 of the Textbook of Neural Repair and Rehabilitation covers the basic sciences relevant to recovery of function following injury to the nervous system.

The Cognitive and Neural Bases of Spatial Neglect - Hans-Otto Karnath

2002

Spatial neglect is a disorder of space-related behaviour. It is characterized by failure to explore the side of space contralateral to a brain lesion, or to react or respond to stimuli or subjects located on this side. Research on spatial neglect and related disorders has developed rapidly in recent years. These advances have been made as a result of neuropsychological studies of patients with brain damage, behavioural studies of animal models, as well as through functional neurophysiological experiments and functional neuroimaging. *The Cognitive and Neural Bases of Spatial Neglect* provides an overview of this wide-ranging field of scientific endeavour, providing a cohesive synthesis of the most recent observations and results. As well as being a fascinating clinical phenomenon, the study of spatial neglect helps us to understand normal mechanisms of directing and maintaining spatial attention and is relevant to the contemporary search for the cerebral correlates of conscious experience, voluntary action and the nature of personal identity itself. The book is divided into seven sections covering the anatomical and neurophysiological bases of the disorder, frameworks of neglect, perceptual and motor factors, the relation to attention, the cognitive processes involved, and strategies for rehabilitation. Chapters have been written by a team of the leading international experts in this field. This will be essential reading for neuropsychologists, neurologists, neurophysiologists, cognitive neuroscientists and psychologists.

The ventricular-subventricular zone: a source of oligodendrocytes in the adult brain - Oscar Gonzalez-Perez 2014-09-30

Demyelinating diseases are characterized by an extensive loss of oligodendrocytes and myelin sheaths from axolemma, which commonly result in disability in young adults. To date, there is no effective treatment against these neurological disorders. In the adult brain, there are neural stem cells (NSCs) that reside within a niche denominated ventricular-subventricular zone (V-SVZ) in the lateral wall of the cerebral ventricles. NSCs give rise to neurons and oligodendrocytes that help preserve cellular homeostasis. Growing evidence indicates that V-SVZ progenitor cells may represent an endogenous source of oligodendrocytes that can

be useful to treat demyelinating diseases. This e-Book "The ventricular-subventricular zone as a source of oligodendrocytes in the adult brain" collected the most recent evidence regarding the mechanisms that modulate the proliferation, migration, quiescence, cell-fate choices and survival of oligodendrocyte precursors generated in the V-SVZ. Herein, we compiled information about the role of Sonic hedgehog, NMDA receptors, ErbB proteins, hemopressin, erythropoietin, osmolarity and microglia in the oligodendrocyte production. Some chapters also describe the role of oligodendrocyte precursors in the preservation of cellular homeostasis, aging and white matter repair. All this information is presented as novel research findings, short communications, and review articles, which were written by experts in the field of oligodendrocyte generation, myelin production and white matter re-myelination.

Cognitive Neuroscience of Attention - Michael I. Posner 2012-01-01

This authoritative reference provides a comprehensive examination of the nature and functions of attention and its relationship to broader cognitive processes. The editor and contributors are leading experts who review the breadth of current knowledge, including behavioral, neuroimaging, cellular, and genetic studies, as well as developmental and clinical research. Chapters are brief yet substantive, offering clear presentations of cutting-edge concepts, methods, and findings. The book addresses the role of attention deficits in psychological disorders and normal aging and considers the implications for intervention and prevention. It includes 85 illustrations. New to This Edition *Significant updates and many new chapters reflecting major advances in the field. *Important breakthroughs in neuroimaging and cognitive modeling. *Chapters on the development of emotion regulation and temperament. *Expanded section on disorders, including up-to-date coverage of ADHD as well as chapters on psychopathy and autism. *Chapters on cognitive training and rehabilitation.

Plasticity in Spatial Neglect - Recovery and Rehabilitation - Georg Kerkhoff 2006-12

Animal experiments, functional imaging studies and longitudinal outcome studies suggest that injured brains can change their function and

connectivity. This book provides opportunities for an interdisciplinary exchange of research ideas between basic neuroscience, applied clinical neuropsychology, neurorehabilitation and neurotechnology.

The Cognitive and Neural Bases of Spatial Neglect - Hans-Otto Karnath
2002-12-05

Spatial neglect is a disorder of space-related behaviour. It is characterized by failure to explore the side of space contralateral to a brain lesion, or to react or respond to stimuli or subjects located on this side. Research on spatial neglect and related disorders has developed rapidly in recent years. These advances have been made as a result of neuropsychological studies of patients with brain damage, behavioural studies of animal models, as well as through functional neurophysiological experiments and functional neuroimaging. The Cognitive and Neural Bases of Spatial Neglect provides an overview of this wide-ranging field of scientific endeavour, providing a cohesive synthesis of the most recent observations and results. As well as being a fascinating clinical phenomenon, the study of spatial neglect helps us to understand normal mechanisms of directing and maintaining spatial attention and is relevant to the contemporary search for the cerebral correlates of conscious experience, voluntary action and the nature of personal identity itself. The book is divided into seven sections covering the anatomical and neurophysiological bases of the disorder, frameworks of neglect, perceptual and motor factors, the relation to attention, the cognitive processes involved, and strategies for rehabilitation. Chapters have been written by a team of the leading international experts in this field. This will be essential reading for neuropsychologists, neurologists, neurophysiologists, cognitive neuroscientists and psychologists.

Assistive Technology for Cognition - Brian O'Neill 2014-12-22

Assistive technology for cognition is technology which can be used to enable, enhance, or extend cognitive function. This book systematically examines how cutting-edge digital technologies can assist the cognitive function of people with cognitive impairments, with the potential to revolutionize rehabilitation. Technologies are reviewed which direct attention, remind, recognize, prompt, and generally guide people through

activities of daily living. Written by experts in neuropsychology and technology development, Assistive Technology for Cognition provides a comprehensive overview of the efficacy of technologies to assist people with brain impairments. Based on the list provided by the International Classification of Function, each chapter covers a different cognitive function; namely, attention, memory, affect, perception, executive function, language, numeracy, sequencing, and navigation onto which existing and future assistive technologies for cognition are mapped. This structure provides in-depth research in an accessible way, and will allow practitioners to move from an assessment of cognitive deficits to the prescription of an appropriate assistive technology for cognition. The chapters also make suggestions for future developments. Assistive Technology for Cognition will be of great interest to clinicians and researchers working in brain injury rehabilitation, technology developers, and also to students in clinical psychology, neuropsychology, and allied health disciplines.

Cognitive Rehabilitation in Old Age - Robert D. Hill 2000-04-13

Cognitive deficits are part of the normal aging process and are exacerbated by various diseases that affect adults in old age, such as dementia, depression, and stroke. A significant scientific and social effort has been expended to evaluate whether cognitive deficits can be remedied through systematic interventions. The editors, as well as the chapter authors, represent a variety of viewpoints that span theory as well as practice. Overall, they aim to address concepts in cognitive rehabilitation that are useful in intervention research -- research which examines problems and issues in normal and pathological aging -- and focusing on the application of cognitive training strategies in natural settings. Thus, the book is grounded in contemporary theory in cognitive aging and is applicable to both the practicing clinician as well as the researcher. It is organized into four sections. The first highlights prominent theoretical principles; the second looks at cognitive rehabilitation strategies in normal aging; the third examines the interplay between lifestyle patterns and cognitive function through applying a broad definition of lifestyle choices; and the fourth focuses on

rehabilitation strategies that address issues in pathological (or diseased) aging.

Neurovascular Neuropsychology - Ronald M. Lazar 2020-08-29

This book covers the explosion of new information about the relationship between the brain and its blood supply since the first edition was published in 2009. With new knowledge and its impact on clinical care, neurovascular neuropsychology has become a recognized sub-specialty that has been integrated into health care systems in the US and abroad. The second edition brings to this larger audience the latest word on these matters, with new emphasis on women's issues, relevance to the pediatric population, insights from modern imaging, and advances in medical and surgical treatments such as heart transplantation, cardiovascular transarterial therapies, and noninvasive brain stimulation in connection with neurocognitive outcomes.

Cognitive Rehabilitation and Neuroimaging - John DeLuca 2020-10-05

The purpose of this book is to educate readers regarding the efficacy of cognitive rehabilitation across a variety of neurological conditions, with specific emphasis on rehabilitation-related change detectable via neuroimaging. For ease of reference, this information is divided into separate chapters by neurological condition, since the nature of cognitive impairment and mechanism of rehabilitation may differ across populations. Also included are discussions of the use of neuroimaging in cognitive rehabilitation trials, rigorous design of cognitive rehabilitation trials to have greater scientific impact (e.g., obtaining Class I evidence), and future directions for the field. As such, the book is designed to be useful to both clinicians and researchers involved in the rehabilitation of such conditions so that they can make informed decisions regarding evidence-based treatment to deploy in clinical settings or to further study in research endeavors.

Cognitive and Behavioral Rehabilitation - Jennie Ponsford 2004-01-23

Written by leading experts in the field, this invaluable text situates the practice of cognitive and behavioral rehabilitation in the latest research from neurobiology and cognitive neuroscience. Initial chapters review current findings on neuronal injury, plasticity, and recovery. The volume

next examines the neurobiology of core cognitive domains--attention, memory, language, visuospatial awareness, and executive functioning--focusing on the processes underpinning both healthy and impaired functioning. Highlighting the practical applications of the research, authors describe available interventions in each domain and set forth clear recommendations for clinical practice. Also addressed are ways to understand and manage challenging behaviors, such as aggression, that may emerge in brain-injured persons. The concluding chapter provides overall strategies for helping people recover from the two most common forms of acquired neurological disability: traumatic brain injury and stroke.

Cognitive Rehabilitation for Pediatric Neurological Disorders - Gianna Locascio 2018-08-02

A professional guide to evidence-based pediatric cognitive rehabilitation in neurological disorders with practical intervention guidance.

Neuropsychological Rehabilitation - Barbara A. Wilson 2005-09-23

This book brings together theoretical and clinical aspects of Neuropsychological Rehabilitation. Following an introductory chapter and a brief history of Neuropsychological Rehabilitation, there are chapters on specific cognitive deficits (attention, executive deficits, memory, and language). The next section addresses rehabilitation of emotional, social and behavioural disorders. Then comes a section on specific groups of people (children, people with dementia and people in reduced states of awareness). Although the main focus of the book is on adults with non-progressive brain injury, these other groups are included as NR is being increasingly employed with them. The book concludes with a chapter on systems of service delivery and another on the future of NR. Thus this book covers a number of aspects of NR and is broader in outlook than most existing books in this area. It presents current practice techniques in cognitive rehabilitation from a conceptual and theoretical perspective. It offers both clinicians and researchers a sense of the research and theory underlying current clinical applications. The main audience will be clinical neuropsychologists especially those working in rehabilitation. Other audiences include clinical psychologists working with people who have

mental health problems, schizophrenia or are elderly; occupational therapists; speech and language therapists and rehabilitation doctors. It is likely that some social workers, nurses psychiatrists and neurologists will also want to read the book.

Rehabilitation of Neuropsychological Disorders - Brick Johnstone
2011-02-25

Many contemporary neuropsychology texts focus on neuropathology, the description of specific tests, and the differential diagnosis of central nervous system disorders. However, increasingly sophisticated neuroradiological techniques, managed care factors, and the growth of rehabilitation necessitates that rehabilitation professionals provide more functionally (versus diagnostically) useful evaluations to improve the neuropsychological functioning and community integration of persons with brain injuries or diseases. This book aims to fill this gap and to provide an overview of standard neuropsychological treatment strategies for specific cognitive impairments that are identified on testing. The new edition enhances this goal with three chapters outlining important recommendations, services, and issues for rehabilitation professionals. Written by a team of experienced scientists and professionals, the volume provides a universal taxonomy of neuropsychological abilities (emphasizing relatively simple terms), with a list of basic rehabilitation strategies to improve impairments identified in general cognitive domains. Specific chapters are included on the neuropsychological remediation of memory, attention, language, visual-spatial skills, and executive function impairments. Each chapter proposes a taxonomy of relatively unitary cognitive constructs (e.g., divided attention, sustained attention, focused attention), lists tests which may be used to assess each

cognitive construct, and provides specific rehabilitation strategies to improve or accommodate the identified neuropsychological impairments. The final chapters cover basic resources and issues of which the rehabilitation professional needs to be aware (vocational rehabilitation, disability determination, and guardianship issues). This new edition provides a wealth of useful information for family members, rehabilitation professionals, and others who work with persons with brain injury in improving the community functioning for those with brain dysfunction. An accompanying website facilitates access to the resources and strategies from the book, allowing the practitioner to cut and paste these recommendations into their clinical reports.

Brain Repair After Stroke - Steven C. Cramer 2010-10-28

Increasing evidence identifies the possibility of restoring function to the damaged brain via exogenous therapies. One major target for these advances is stroke, where most patients can be left with significant disability. Treatments have the potential to improve the victim's quality of life significantly and reduce the time and expense of rehabilitation. Brain Repair After Stroke reviews the biology of spontaneous brain repair after stroke in animal models and in humans. Detailed chapters cover the many forms of therapy being explored to promote brain repair and consider clinical trial issues in this context. This book provides a summary of the neurobiology of innate and treatment-induced repair mechanisms after hypoxia and reviews the state of the art for human therapeutics in relation to promoting behavioral recovery after stroke. Essential reading for stroke physicians, neurologists, rehabilitation physicians and neuropsychologists.

Neuropsychological Rehabilitation - Chad A. Noggle 2013-04-26
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