

Cognitive Neuroscience of Aging



LINKING COGNITIVE
AND CEREBRAL AGING

edited by Roberto Cabeza,
Randi Nolph, and Daniel C. Park

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Cognitive Neuroscience Of Aging Linking Cognitive And Cerebral Aging

Annette Gerstenberg, Anja Voeste



Cognitive Neuroscience Of Aging Linking Cognitive And Cerebral Aging:

Cognitive Neuroscience of Aging Roberto Cabeza, Lars Nyberg, Denise C. Park, 2016-10-31 This second edition of the popular Cognitive Neuroscience of Aging provides up to date coverage of the most fundamental topics in this discipline Like the first edition this volume accessibly and comprehensively reviews the neural mechanisms of cognitive aging appropriate to both professionals and students in a variety of domains including psychology neuroscience neuropsychology neurology and psychiatry The chapters are organized into three sections The first section focuses on major questions regarding methodological approaches and experimental design It includes chapters on structural imaging MRI DTI functional imaging fMRI and molecular imaging dopamine PET etc and covers multimodal imaging longitudinal studies and the interpretation of imaging findings The second section concentrates on specific cognitive abilities including attention and inhibitory control executive functions memory and emotion The third section turns to domains with health and clinical implications such as the emergence of cognitive deficits in middle age the role of genetics the effects of modulatory variables hypertension exercise cognitive engagement and the distinction between healthy aging and the effects of dementia and depression Taken together the chapters in this volume written by many of the most eminent scientists as well as young stars in this discipline provide a unified and comprehensive overview of cognitive neuroscience of aging

Cognitive Neuroscience of Aging: Linking Cognitive and Cerebral Aging Roberto Cabeza, Lars Nyberg, Denise Park, 2004-11-18 Until very recently our knowledge about the neural basis of cognitive aging was based on two disciplines that had very little contact with each other Whereas the neuroscience of aging investigated the effects of aging on the brain independently of age related changes in cognition the cognitive psychology of aging investigated the effects of aging on cognition independently of age related changes in the brain The lack of communication between these two disciplines is currently being addressed by an increasing number of studies that focus on the relationships between cognitive aging and cerebral aging This rapidly growing body of research has come to constitute a new discipline which may be called cognitive neuroscience of aging The goal of Cognitive Neuroscience of Aging is to introduce the reader to this new discipline at a level that is useful to both professionals and students in the domains of cognitive neuroscience cognitive psychology neuroscience neuropsychology neurology and other related areas This book is divided into four main sections The first section describes noninvasive measures of cerebral aging including structural e g volumetric MRI chemical e g dopamine PET electrophysiological e g ERPs and hemodynamic e g fMRI and discusses how they can be linked to behavioral measures of cognitive aging The second section reviews evidence for the effects of aging on neural activity during different cognitive functions including perception and attention imagery working memory long term memory and prospective memory The third section focuses on clinical and applied topics such as the distinction between healthy aging and Alzheimers disease and the use of cognitive training to ameliorate age related cognitive decline The last section describes theories that relate cognitive and cerebral aging including models accounting for

functional neuroimaging evidence and models supported by computer simulations Taken together the chapters in this volume provide the first unified and comprehensive overview of the new discipline of cognitive neuroscience of aging

Cognitive Neuroscience of Aging : Linking Cognitive and Cerebral Aging Roberto Cabeza Center for Cognitive Neuroscience Duke University, Lars Nyberg Department of Psychology Umea University, Denise Park Professor of Psychology University of Illinois at Urbana-Champaign, 2004-11-18

Until very recently our knowledge about the neural basis of cognitive aging was based on two disciplines that had very little contact with each other Whereas the neuroscience of aging investigated the effects of aging on the brain independently of age related changes in cognition the cognitive psychology of aging investigated the effects of aging on cognition independently of age related changes in the brain The lack of communication between these two disciplines is currently being addressed by an increasing number of studies that focus on the relationships between cognitive aging and cerebral aging This rapidly growing body of research has come to constitute a new discipline which may be called cognitive neuroscience of aging The goal of Cognitive Neuroscience of Aging is to introduce the reader to this new discipline at a level that is useful to both professionals and students in the domains of cognitive neuroscience cognitive psychology neuroscience neuropsychology neurology and other related areas This book is divided into four main sections The first section describes noninvasive measures of cerebral aging including structural e g volumetric MRI chemical e g dopamine PET electrophysiological e g ERPs and hemodynamic e g fMRI and discusses how they can be linked to behavioral measures of cognitive aging The second section reviews evidence for the effects of aging on neural activity during different cognitive functions including perception and attention imagery working memory long term memory and prospective memory The third section focuses on clinical and applied topics such as the distinction between healthy aging and Alzheimers disease and the use of cognitive training to ameliorate age related cognitive decline The last section describes theories that relate cognitive and cerebral aging including models accounting for functional neuroimaging evidence and models supported by computer simulations Taken together the chapters in this volume provide the first unified and comprehensive overview of the new discipline of cognitive neuroscience of aging

The Cambridge Handbook of Cognitive Aging Ayanna K. Thomas, Angela Gutches, 2020-05-28

Decades of research have demonstrated that normal aging is accompanied by cognitive change Much of this change has been conceptualized as a decline in function However age related changes are not universal and decrements in older adult performance may be moderated by experience genetics and environmental factors Cognitive aging research to date has also largely emphasized biological changes in the brain with less evaluation of the range of external contributors to behavioral manifestations of age related decrements in performance This handbook provides a comprehensive overview of cutting edge cognitive aging research through the lens of a life course perspective that takes into account both behavioral and neural changes Focusing on the fundamental principles that characterize a life course approach genetics early life experiences motivation emotion social contexts and lifestyle interventions this handbook is an essential resource for

researchers in cognition aging and gerontology Handbook of the Psychology of Aging K Warner Schaie, Sherry L. Willis, 2010-12-21 The Handbook of the Psychology of Aging Seventh Edition provides a basic reference source on the behavioral processes of aging for researchers graduate students and professionals It also provides perspectives on the behavioral science of aging for researchers and professionals from other disciplines The book is organized into four parts Part 1 reviews key methodological and analytical issues in aging research It examines some of the major historical influences that might provide explanatory mechanisms for a better understanding of cohort and period differences in psychological aging processes Part 2 includes chapters that discuss the basics and nuances of executive function the history of the morphometric research on normal brain aging and the neural changes that occur in the brain with aging Part 3 deals with the social and health aspects of aging It covers the beliefs that individuals have about how much they can control various outcomes in their life the impact of stress on health and aging and the interrelationships between health disparities social class and aging Part 4 discusses the emotional aspects of aging family caregiving and mental disorders and legal capacities in older adults Contains all the main areas of psychological gerontological research in one volume Entire section on neuroscience and aging Begins with a section on theory and methods Edited by one of the father of gerontology Schaie and contributors represent top scholars in gerontology Multiple Pathways of Cognitive Aging Grzegorz Sedek, Thomas M. Hess, Dayna R. Tournon, 2022 Multiple Pathways of Cognitive Aging explores adaptive functioning in later life It considers both the factors underlying individual differences in late life cognitive change as well as the nature of the compensatory mechanisms developed by most successful and active middle aged and older adults *The Handbook of Aging and Cognition* Fergus I. M. Craik, Timothy A. Salthouse, 2011-03-15 Cognitive aging is a flourishing area of research A significant amount of new data a number of new theoretical notions and many new research issues have been generated in the past ten years This new edition reviews new findings and theories enables the reader to assess where the field is today and evaluates its points of growth The chapters are organized to run from reviews of current work on neuroimaging neuropsychology genetics and the concept of brain reserve through the mainstream topics of attention memory knowledge and language to a consideration of individual differences and of cognitive aging in a lifespan context This edition continues to feature the broad range of its predecessors while also providing critical assessments of current theories and findings **Handbook of the Psychology of Aging**, 2015-08-19 Handbook of the Psychology of Aging Eighth Edition tackles the biological and environmental influences on behavior as well as the reciprocal interface between changes in the brain and behavior during the course of the adult life span The psychology of aging is important to many features of daily life from workplace and the family to public policy matters It is complex and new questions are continually raised about how behavior changes with age Providing perspectives on the behavioral science of aging for diverse disciplines the handbook explains how the role of behavior is organized and how it changes over time Along with parallel advances in research methodology it explicates in great detail patterns and sub

patterns of behavior over the lifespan and how they are affected by biological health and social interactions New topics to the eighth edition include preclinical neuropathology audition and language comprehension in adult aging cognitive interventions and neural processes social interrelations age differences in the connection of mood and cognition cross cultural issues financial decision making and capacity technology gaming social networking and more Tackles the biological and environmental influences on behavior as well as the reciprocal interface between changes in the brain and behavior during the course of the adult life span Covers the key areas in psychological gerontology research in one volume Explains how the role of behavior is organized and how it changes over time Completely revised from the previous edition New chapter on gender and aging process

Working Memory and Ageing Robert H. Logie, Robin G. Morris, 2014-06-20 The rapid growth in the numbers of older people worldwide has led to an equally rapid growth in research on the changes across age in cognitive function including the processes of moment to moment cognition known as working memory This book brings together international research leaders who address major questions about how age affects working memory Why is working memory function much better preserved in some people than others In all healthy adults which aspects of working memory are retained in later years and which aspects start declining in early adulthood Can cognitive training help slow cognitive decline with age How are changes in brain structures connectivity and activation patterns related to important changes in working memory function Impairments of cognition and particularly of working memory can be major barriers to independent living The chapters of this book dispel some popular myths about cognitive ageing while presenting the state of the science on how and why working memory functions as it does throughout the adult lifespan Working Memory and Aging is the first volume to provide an overview of the burgeoning literature on changes in working memory function across healthy and pathological ageing and it will be of great interest to advanced undergraduates postgraduates and researchers in psychology and related subject areas concerned with the effects of human ageing including several areas of medicine

The Oxford Handbook of Social Neuroscience Jean Decety, John T. Cacioppo, 2015-04-15 The complexities of the brain and nervous system make neuroscience an inherently interdisciplinary pursuit one that comprises disparate basic clinical and applied disciplines Behavioral neuroscientists approach the brain and nervous system as instruments of sensation and response cognitive neuroscientists view the same systems as a solitary computer with a focus on representations and processes The Oxford Handbook of Social Neuroscience marks the emergence of a third broad perspective in this field Social neuroscience emphasizes the functions that emerge through the coaction and interaction of conspecifics the neural mechanisms that underlie these functions and the commonality and differences across social species and superorganismal structures With an emphasis on the neural hormonal cellular and genetic mechanisms underlying social behavior social neuroscience places emphasis on the associations and influences between social and biological levels of organization This complex interdisciplinary perspective demands theoretical methodological statistical and inferential rigor to effectively

integrate basic clinical and applied perspectives on the nervous system and brain Reflecting the diverse perspectives that make up this field The Oxford Handbook of Social Neuroscience brings together perspectives from across the sciences in one authoritative volume

Research Anthology on Supporting Healthy Aging in a Digital Society Management Association, Information Resources, 2022-02-04 In today's rapidly evolving society there has been an increase in technologies and systems available to support the elderly throughout various aspects of life We have come a long way in the quality of life we can offer our aging populations in recent years due to these technological innovations medical advancements and research initiatives However further study of these developments is crucial to ensure they are utilized to their utmost potential in securing a healthier elderly population The Research Anthology on Supporting Healthy Aging in a Digital Society discusses the current challenges of aging in the modern world as well as recent developments in medicine and technology that can be used to improve the quality of life of elderly citizens Covering a wide range of topics such as smart homes remote healthcare and aging in place this reference work is ideal for healthcare professionals gerontologists therapists government officials policymakers researchers academicians practitioners scholars instructors and students

The Wiley Handbook on the Aging Mind and Brain Matthew Rizzo, Steven Anderson, Bernd Fritzsche, 2018-05-29 A thought provoking treatise on understanding and treating the aging mind and brain This handbook recognizes the critical issues surrounding mind and brain health by tackling overarching and pragmatic needs so as to better understand these multifaceted issues This includes summarizing and synthesizing critical evidence approaches and strategies from multidisciplinary research all of which have advanced our understanding of the neural substrates of attention perception memory language decision making motor behavior social cognition emotion and other mental functions Written by a plethora of health experts from around the world The Wiley Handbook on the Aging Mind and Brain offers in depth contributions in 7 sections Introduction Methods of Assessment Brain Functions and Behavior across the Lifespan Cognition Behavior and Disease Optimizing Brain Function in Health and Disease Forensics Competence Legal Ethics and Policy Issues and Conclusion and New Directions Geared toward improving the recognition diagnosis and treatment of many brain based disorders that occur in older adults and that cause disability and death Seeks to advance the care of patients who have perceptual cognitive language memory emotional and many other behavioral symptoms associated with these disorders Addresses principles and practice relevant to challenges posed by the US National Academy of Sciences and National Institute of Aging NIA Presents materials at a scientific level that is appropriate for a wide variety of providers The Wiley Handbook on the Aging Mind and Brain is an important text for neurologists psychiatrists psychologists physiatrists geriatricians nurses pharmacists social workers and other primary caregivers who care for patients in routine and specialty practices as well as students interns residents and fellows

Information Processing Speed in Clinical Populations John DeLuca, Jessica H. Kalmar, 2013-05-13 Although investigated for over 100 years it is only now that we are beginning to understand how speed of information processing is

affected in various clinical populations Processing speed has a major impact on higher level cognitive abilities and is extremely vulnerable to neurological insult and the aging process The importance of processing speed with respect to brain function cognition and overall quality of life is now the focus of a new and exciting body of research in clinical populations This book provides a scholarly and clinically sensitive review of research on processing speed and its issues in clinical populations Readers will come away with an in depth understanding of human information processing speed including its historical development its relationship to other cognitive functions the developmental course of the ability across the lifespan and its impact on everyday life in various clinical populations Other highlights of the text are its discussion of the speed vs accuracy trade off tools available for measuring processing speed the unfolding research on genetic contributions to processing speed and the latest ideas in rehabilitation With contributing authors who are experts in their fields **Information Processing Speed in Clinical Populations** represents a valuable resource for researchers scholars and clinicians by providing a concise summary of the existing research on processing speed across an array of disciplines and populations

Language Development Annette Gerstenberg, Anja Voeste, 2015-07-15 **Language Development** The lifespan perspective generates insights into the central issues of age dependent language change focusing especially on the middle and later stages of life The contributors exploit contemporary and historical longitudinal data adopting psycholinguistic corpus linguistic and sociolinguistic approaches Linguistic changes are discussed against the background of cognitive somatic and social factors Bringing the resulting contributions together the volume aims to resume the discussion of contradictions between the models of change and constancy over an individual's lifespan that have not been sufficiently resolved to date The volume is intended to serve as an interdisciplinary reference resource for those conducting research on language development and the aging process and as a supplementary course book on language variability and change

Hypertension and Brain Damage Antonio Coca, 2024-09-16 The second edition of this book explores different aspects of the relationship between hypertension and brain damage providing readers with up to date information that will be of interest to clinicians and researchers alike In recent years numerous studies have been published that have added new evidence on different aspects of the disease New recommendations and the latest hypertension guidelines on stroke and dementia will be described in this edition which will include not only updated content but also new chapters on aspects that have recently emerged in relation to hypertension and brain damage After an introductory chapter on the epidemiology and burden of neurological disease induced by hypertension the significance of various comorbidities that represent risk factors for brain damage in the context of hypertension is discussed The effects of hypertension on small and large cerebral arteries and the consequences on brain damage are then examined in detail Similarly the association between hypertension and ischaemic stroke transient ischaemic attack and haemorrhagic stroke is explored in depth and the evidence and guidelines for reducing hypertension during the acute phase of each form of stroke are summarised Both primary and secondary prevention of stroke are addressed with the

results of major studies presented The reader will also find interesting new perspectives on the role of different imaging techniques including CT and functional MRI in detecting and diagnosing brain damage in patients with hypertension The concluding chapters examine the relationship between hypertension and cognitive decline and dementia associated with hypertension its pathophysiology the detection of cognitive impairment in daily practice and its prevention and treatment

Executive Function Sandra A. Wiebe, Julia Karbach, 2017-07-28 *Executive Function Development Across the Life Span* presents perspectives from leading researchers and theorists on the development of executive function from infancy to late adulthood and the factors that shape its growth and decline Executive function is the set of higher order cognitive processes involved in regulating attention thoughts and actions Relative to other cognitive domains its development is slow and decline begins early in late adulthood As such it is particularly sensitive to variations in environments and experiences and there is growing evidence that it is susceptible to intervention important because of its link to a wide range of important life outcomes The volume is made up of four sections It begins with an overview of executive function's typical development across the lifespan providing a foundation for the remainder of the volume The second section presents insights into mechanisms of executive function as provided by a variety of methodological approaches The third and fourth sections review the current research evidence on specific factors that shape executive function's development focusing on normative e g bilingualism physical activity cognitive training and clinically relevant e g substance use neurodegenerative disease developmental pathways

Handbook of Assessment in Clinical Gerontology Peter A. Lichtenberg, 2010-08-20 New trends in mental healthcare practice and a rapid increase in the aged population are causing an explosion in the fields of clinical gerontology and geropsychology today This comprehensive second edition handbook offers clinicians and graduate students clear guidelines and reliable tools for assessing general mental health cognitive functioning functional age psychosocial health comorbidity behavior deficits and more Psychopathology behavioral disorders changes in cognition and changes in everyday functioning are addressed in full and a wide range of conditions and disorders common to this patient population are covered Each chapter provides an empirical review of assessment instruments assessment scales in their totality a review of how these instruments are used with and adapted for different cultural groups illustration of assessments through case studies and information on how to utilize ongoing assessment in treatment and or treatment planning This combination of elements will make the volume the definitive assessment source for clinicians working with elderly patients The most comprehensive source of up to date data on gerontological assessment with review articles covering psychopathology behavioral disorders changes in cognition and changes in everyday functioning Consolidates broadly distributed literature into single source saving researchers and clinicians time in obtaining and translating information and improving the level of further research and care they can provide Chapters directly address the range of conditions and disorders most common for this patient population i e driving ability mental competency sleep nutrition sexual functioning

demntias elder abuse depression anxiety disorders etc Fully informs readers regarding conditions most commonly encountered in real world treatment of an elderly patient population Each chapter cites case studies to illustrate assessment techniques Exposes reader to real world application of each assessment discussed *Universal Access in Human-Computer Interaction. Design for All and EInclusion* Constantine Stephanidis, 2011-06-24 The four volume set LNCS 6765 6768 constitutes the refereed proceedings of the 6th International Conference on Universal Access in Human Computer Interaction UAHCI 2011 held as Part of HCI International 2011 in Orlando FL USA in July 2011 jointly with 10 other conferences addressing the latest research and development efforts and highlighting the human aspects of design and use of computing systems The 57 revised papers included in the first volume were carefully reviewed and selected from numerous submissions The papers are organized in the following topical sections design for all methods and tools Web accessibility approaches methods and tools multimodality adaptation and personlization and eInclusion policy good practice legislation and security issues **Annual Review of Gerontology and Geriatrics, Volume 27, 2007** Leonard W. Poon, Thomas T. Perls, 2007-12-12 Though exceptional human longevity has captured the imagination for millennia it has been only in the past fifteen years or so that some of the secrets to very long lives are finally giving way to scientific inquiry Written by an international group of experts this year s review first considers the methodological and design dilemmas faced in conducting centenarian research It then offers guidance in locating literature and data sources for primary and secondary information on centenarians and the oldest old This section includes a list of the world s oldest persons and discusses the difficulties in compiling such a list The remainder of the review is divided in three sections the biology and genetics of longevity the behavioral and social predictors of longevity and methodological issues in qualitative and anthropologic approaches and the study of the very oldest old supercentenarians or those who live to 110 years or more Data is drawn from studies undertaken among populations in diverse parts of the world **Perception and Cognition: Interactions in the Aging Brain** Harriet A. Allen, Katherine L. Roberts, 2016-09-13 Healthy ageing can lead to declines in both perceptual and cognitive functions Impaired perception such as that resulting from hearing loss or reduced visual or tactile resolution increases demands on higher level cognitive functions to cope or compensate It is possible for example to use focused attention to overcome perceptual limitations Unfortunately cognitive functions also decline in old age This can mean that perceptual impairments are exacerbated by cognitive decline and vice versa but also means that interventions aimed at one type of decline can lead to improvements in the other Just as improved cognition can ameliorate perceptual deficits improving the stimulus can help offset cognitive deficits For example making directions and routes easy to follow can help compensate for declines in navigation abilities In this Topic we bring together papers from both auditory and visual researchers that address the interaction between perception and cognition in the ageing brain Many of the studies demonstrate that a broadening of representations or increased reliance on gist underlie perceptual and cognitive age related declines There is also clear

evidence that impaired perception is associated with poor cognition although encouragingly it can also be seen that good perception is associated with better cognition Compensatory cognitive strategies were less successful in improving perception than might be expected We also present papers which highlight important methodological considerations that are required when studying the older brain

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