Patterns of Brain Aging



Neural Inefficiency

Less suppression of brain activity and cognitive decline

Neural Compensation

Additional activation needed to minimize cognitive decline

Aging And Cognitive Processes

Susan K. Whitbourne

Aging And Cognitive Processes:

Aging and Cognitive Processes Fergus Craik, 2012-12-06 For a variety of reasons there has been an explosion of interest in research on aging over the past few years The reasons include an awareness that a large and growing proportion of our popUlation is over 65 and that research findings can contribute to their health satisfaction and efficiency as members of society the fact that funding agencies have endorsed the need for more research effort in the area by setting up special programs and also the fact that researchers themselves are turning more to practical problems as many theoretical issues in experimental psychology at least seem to remain as intractable as ever Thus at present there is widespread interest in aging but there is also a lack of knowledge as to what has already been accomplished in the area what the theoretical issues are and what factors contribute to the methodological and practical difficulties. The time is propitious for meetings of experts in various aspects of the aging process both to discuss among themselves latest advances in the field and also to integrate known information for researchers and practitioners In the summer of 1980 we organized such a meeting as the 10th annual psychology symposium to be held at the Erindale Campus of the University of Toronto The topic chosen was Aging and Cognitive Processes and the edited contributions to the symposium form the chapters of the present book **Cognitive Processes** Fergus Craik, 2014-01-15 Aging and Cognition E.A. Lovelace, 1990-12-11 Presented in this volume is a discussion of current literature and theoretical issues relating to three aspects of late life age related cognitive change Firstly evidence regarding aging and the basic mental processes of attention motor control memory language problem solving and intelligence are presented Secondly the role of personal traits such as personality and self efficacy in the aging of cognitive function are developed along with self awareness of cognitive processes and age changes in the monitoring of these processes Thirdly consideration is given to the study of interventions to delay or remediate the cognitive declines of aging

Age Differences in Word and Language Processing P.A. Allen, T.R. Bashore, 1995-09-27 Component cognitive processes have played a critical role in the development of experimental aging research and theory in psychology as attested by articles published on this theme However in the last five to ten years there has been a substantial increase in the number of articles attempting to isolate a single factor or small subset of factors responsible for age differences in information processing This view of aging is frequently termed the complexity model of the generalized slowing model the primary assumption being that age differences in cognition are due simply to a relatively larger performance decrement on the part of older adults compared to younger adults as task complexity increases Because generalized complexity theorists have questioned the utility of using component cognitive processes as theoretical constructs the editors feel it is time to restate why component cognitive processes are critical to any thorough understanding of age differences in cognition Thus the present edited volume represents an attempt to demonstrate the utility of the process specific approach to cognitive aging Central to this effort are illustrations of how regression analyses may provide evidence for general slowing by maximizing

explained variance while at the same time obscuring local sources of variance The book concentrates on age differences in word and language processing because these factors relate to reading which is a critical cognitive process used in everyday life Furthermore age differences in word and language processing illustrate the importance of taking component cognitive processes into consideration The breadth of coverage of the book attests to the wide range of cognitive processes involved in word and language processing The Handbook of Aging and Cognition Fergus I. M. Craik, Timothy A. Salthouse, 1992 The study of age related changes in cognitive processes is flourishing as never before making the area an exciting one for a growing number of researchers In addition cognitive aging research is moving out from its traditional roots in experimental and developmental psychology creating increased contact with cognitive neuropsychology and cognitive neuroscience To reflect these changes in the field this volume includes chapters on abnormal aging the neuroscience of aging and applied cognitive psychology along with the core section on basic cognitive processes While other recent compilations of research in this area have given relatively brief overviews of the literature the contributors were given space to review each topic in depth asked to evaluate the field not simply their own contributions and to provide critical commentaries from their personal perspectives Couched most often in terms of cognitive or information processing models the general perspective of the contributors is a biologically based account of aging This shared viewpoint gives the volume particular coherence in its treatment of theories and data Topics covered include age differences in attention perception memory knowledge representation reasoning and language as well as their neuropsychological and neurological correlates and practical implications **The Encyclopedia of Aging Richard Schulz, 2006 Print CourseSmart** Handbook of the Psychology of Aging James E. Birren, K Warner Schaie, 2001-08-02 The Handbook of the Psychology of Aging has become the definitive reference source for information on the psychology of adult development and aging The Fifth Edition provides comprehensive reviews of research on biological and social influences on behavior and age related changes in psychological function In addition to covering environmental influences on behavior and aging and gender differences in aging new chapters in the Fifth Edition discuss wisdom creativity and technological change and the older worker This handbook is an essential reference for researchers in adult development and gerontology and suitable as an advanced textbook for courses on the psychology of aging Cognition, Aging and Self-Reports Norbert Schwarz, Denise Park, Barbel Knauper, Seymour Sudman, 1998-09-28 This text provides an overview of age related changes in cognitive functioning and explores the implications of these changes for the self report of attitudes and behaviours **Cognitive and Social Neuroscience of Aging** Angela Gutchess, 2019-01-03 Integrates a neuroscience approach to study aging In addition to covering standard cognitive functions it incorporates socioemotional abilities **Cognitive Aging and Brain Health** Zhanjun Zhang, 2023-07-07 This book reviews the research trends of cognitive aging and brain health from full scale It not only contains cognitive aging s neurophysiological mechanism clinical research and intervention measures but also covers

cognitive aging s social psychological mechanism such as the relation between old people s motion socioeconomic status and the cognitive aging Through decades of research and practice the views towards the cognitive aging process havebeen transferred from coping with cognitive decline to promoting cognitive ability. This book provides with the latest research findings and in depth opinions of the cognitive aging and brain health assisting researchers to grasp the theories practice and trends of this field and quide health care workers to carry out the treatment and nursing for the aged Neuroscience of Aging Roberto Cabeza, Lars Nyberg, Denise Park, 2009-04-24 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 New Boundaries Between Aging, Cognition, and Emotions Rocco Palumbo, Alberto Di Domenico, 2018-12-07 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 **Control of Cognitive Processes** Stephen Monsell, Jon Driver, 2000 The thirty two contributions discuss evidence from psychological experiments with healthy and brain damaged subjects functional imaging electrophysiology and computational modeling Language, Memory, and Aging Leah L. Light, Deborah M. Burke, 1993-07-30 From a cognitive standpoint the authors consider the role of awareness in memory and Theoretical Perspectives on Cognitive Aging Timothy A. Salthouse, 2016-03-23 The phenomenon of age related cognitive decline has long been controversial both in terms of mere existence and with respect to how it is explained Some researchers have dismissed it as an artifact of declining health or lower levels of education and others have attributed it to general changes occurring in the external environment Still other interpretations have been based on the use it or lose it principle known as the Disuse Hypothesis or on the idea that there are qualitative differences in either the structure or the process of cognition across the adult years Perhaps the most popular approach at present relies on the information processing perspective and attempts to identify the critical processing component most responsible for age related differences in cognition The primary purposes of this book are first to review the evidence of age related differences in cognitive functioning and then to evaluate the major explanations proposed to account for the negative relations between age and cognition that have been established Included is a discussion of theoretical dimensions and levels of scientific theorizing assumed to be helpful in understanding and evaluating alternative perspectives on cognitive aging The various perspectives are then covered in detail and analyzed The text concludes with observations about the progress that has been made in explaining cognitive aging phenomena plus recommendations for research practices that might contribute to greater progress in the future The Encyclopedia of Aging Linda S. Noelker, PhD, Kenneth Rockwood, MD, FRCPC, Richard L. Sprott, Ph.D., 2006-03-17 A COMPREHENSIVE RESOURCE ON GERONTOLOGY AND GERIATRICS Since its inception in 1987 The Encyclopedia of Aging has proven to be the definitive resource for scholars and students across the burgeoning and increasingly interdisciplinary fields of gerontology and geriatrics Like its three esteemed predecessors the fourth edition contains concise readable explorations of hundreds of terms concepts and issues related to the lives of older adults as well as timely coverage of the many new programs and services for the elderly Updated under the distinguished stewardship of editor in chief Richard Schulz to reflect the infusion of new information across the scientific disciplines this new edition

brings readers up to the moment significant advances in biology physiology genetics medicine psychology nursing social services sociology economics technology and political science While retaining the format and standard of excellence that marked the first three editions the fourth edition encompasses a wealth of new information from the social and health sciences It contains the most current bibliography of an expanding literature an exhaustive index and extensive cross references This much anticipated update of the field s most authoritative resource will take its place as an indispensable reference for specialists and non specialists across a broad range of disciplines that now comprise the field of aging SPRINGER SERVING THE HEALTHCARE AND HELPING PROFESSIONS FOR MORE THAN 55 YEARS Dynamics of Cognitive Processing Timothy Michael Ellmore, Peter Ford Dominey, John Magnotti, 2016-07-26 From our ability to attend to many stimuli occurring in rapid succession to the transformation of memories during a night of sleep cognition occurs over widely varying time scales spanning milliseconds to days and beyond Cognitive processing is often influenced by several behavioral variables as well as nonlinear interactions between multiple neural systems. This frequently produces unpredictable patterns of behavior and makes understanding the underlying temporal factors influencing cognition a fruitful area of hypothesis development and scientific inquiry Across two reviews a perspective and twelve original research articles covering the domains of learning memory attention cognitive control and social decision making this research topic sheds new light on the temporal dynamics of cognitive processing The Encyclopedia of Adulthood and Aging, 3 Volume Set Susan K. Whitbourne, 2016-01-19 This authoritative reference work contains more than 300 entries covering all aspects of the multi disciplinary field of adult development and aging Brings together concise accurate summaries of classic topics as well as the most recent thinking and research in new areas Covers a broad range of issues from biological and physiological changes in the body to changes in cognition personality and social roles to applied areas such as psychotherapy long term care and end of life issues Includes contributions from major researchers in the academic and clinical realms 3 Volumes www Ageing and Executive Control Ulrich Mayr, Reinhold Kliegl, Daniel H. Spieler, 2001 encyclopediaadulthoodandaging com The empirical and theoretical analysis of executive control processes dormant for many years has grown to become one of the most fertile areas of research in cognitive psychology and cognitive neuroscience Because executive functions are thought to have a pervasive role in maintaining optimal information processing across many processing situations issues related to executive control cut across many traditional research divides Unique among many other areas of research in cognition questions about the influence of ageing have figured prominently in executive control research There is accumulating evidence of age related changes in frontal executive functions. The union of research on executive functioning with research on the cognitive effects of ageing could provide the theoretical framework for understanding the widespread influence of ageing on cognition This special issue brings together well known researchers in cognitive psychology and cognitive neuroscience who approach the question of executive control using a wide range of methods from traditional

behavioural studies quantitative and computational modelling and functional neuroimaging The emphasis of these contributions is on a concise overview and integration of relevant theoretical ideas and empirical findings By bringing together a diverse group of contributors this special issue can serve researchers and students both as a summary of current research and as a starting point toward further explorations on the relations between executive control and the cognitive influences of ageing

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