

# Cognition in Aging

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# Aging And Cognition Aging And Cognition

**Timothy A. Salthouse**



## **Aging And Cognition Aging And Cognition:**

**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.

**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.

*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 Cognitive Aging Denise Park, Nobert Schwarz, 2012-12-06 As our society ages the topic of cognitive aging is becoming increasingly important This volume provides an accessible overview of how the cognitive system changes as a function of normal aging Building on the successful first edition this volume provide an even more comprehensive coverage of the major issues affecting memory attention language speech and other aspects of cognitive functioning The essential chapters from the first edition have been thoroughly revised and updated and new chapters have been introduced which draw in neuroscience studies and more applied topics In addition contributors were encouraged to ensure their chapters are accessible to students studying the topic for the first time This therefore makes the volume appealing as a textbook on senior undergraduate and graduate courses *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 **Theoretical Perspectives on Cognitive Aging** Timothy A. Salthouse, 1991 First Published in 1991 Routledge is an imprint of Taylor Francis an informa company **Aging and Cognition** Hayden B. Bosworth, Christopher K. Hertzog, 2009 As the world s population ages the study of aging and its effects on cognition becomes increasingly important *Aging and Cognition Research Methodologies and Empirical Advances* takes an interdisciplinary look at cognitive aging how it happens and how to study it The first part of the book explores methods for measuring cognitive change including how to study cohort effects How can we account for differences in cognitive performance from one cohort to another Should we assume factor invariance across cohorts or time These issues are treated in the context of new and existing empirical research making the discussion of methodological issues more concrete and accessible The second part of the book explores the social and psychological factors associated with cognitive aging For example to what extent do socioeconomic status optimism and personal sense of control affect aging Is the controversial use it or lose it theory of cognition valid Finally the concluding section explores how to use research findings to improve the everyday functioning of adults a challenging task because everyday functioning relies on complex cognitive tasks and most cognitive research measures only basic cognitive tasks The chapter in this final section uses medication adherence as an example of deriving real world solutions from cognitive research results With its emphasis on social and contextual factors that influence aging this book showcases both substantive and methodological developments in the field It will be

useful to everyone who studies aging and cognition Jacket PsycINFO Database Record c 2009 APA all rights reserved

**New Frontiers in Cognitive Aging** Roger A. Dixon, Lars Bäckman, Lars-Göran Nilsson, 2004 With an ever increasing population of aging people in the western world it is more crucial than ever that we try to understand how and why cognitive competence breaks down with advancing age why do some people follow normal patterns of cognitive change while others follow a path of progressive decline with neurodegenerative diseases such as Alzheimer's What can be done to prevent cognitive decline or to avoid neurodegenerative diseases The answers if they come will not emerge from research within one discipline but from work being done across a range of scientific and medical specialities This volume brings together leading experts from a range of fields studying cognitive aging including neuroscience pharmacology health genetics sensory biology and epidemiology Unlike other books in this area this book is more about new frontiers than past research and accomplishments Recently cognitive aging research has taken several new directions linking with and benefiting from rapid technological and theoretical advances in these neighbouring disciplines This book provides unique interdisciplinary coverage of the topic With each chapter including commentaries from specialists in related fields the book provides an integrative study of the topic For those within the fields of psychology cognitive neuroscience and geriatrics this volume will make an important contribution in furthering our understanding of a problem that affects us all

**Multiple Pathways of Cognitive Aging** Grzegorz Sedek, Thomas M. Hess, Dayna R. Touron, 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

**A Theory of Cognitive Aging** T. Salthouse, 2000-04-01 Over a half century of research has documented the fact that people of different ages perform at different levels on a variety of tests of cognitive functioning and yet there are still no comprehensive theories to account for these phenomena A Theory of Cognitive Aging is intended to begin intellectual discussion in this area by identifying major issues of controversy and proposing a particular theoretical interpretation based on the notion that the rate of processing information slows down with increased age Although still quite preliminary the theoretical perspective is demonstrated to provide a plausible account for age related differences in functioning on measures of memory spatial ability and reasoning The book has four aims To advocate a more explicitly theoretical approach to research in the area of cognitive aging To outline three important dimensions along which it is argued that any theory of cognitive aging phenomena must take a position To evaluate empirical evidence relevant to specific positions along those dimensions To summarize the major concepts of the current theory and to describe its application to selected findings in the research literature

## Reviewing **Aging And Cognition Aging And Cognition**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Aging And Cognition Aging And Cognition**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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