

Current  
Issues  
in  
Memory

# **Working Memory and Ageing**

**Edited by ROBERT H. LOGIE  
and ROBIN G. MORRIS**



Psychology Press

# Working Memory And Ageing Current Issues In Memory

**Peter Bryant, Andrew M. Colman**

## **Working Memory And Ageing Current Issues In Memory:**

**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.

*Memory and Aging* Moshe Naveh-Benjamin, Nobuo Ohta, 2012 Current demographical patterns predict an aging worldwide population. It is projected that by 2050 more than 20% of the US population and 40% of the Japanese population will be older than 65. A dramatic increase in research on memory and aging has emerged to understand the age related changes in memory since the ability to learn new information and retrieve previously learned information is essential for successful aging and allows older adults to adapt to changes in their environment, self concept and social roles. This volume represents the latest psychological research on different aspects of age related changes in memory. Written by a group of leading international researchers its chapters cover a broad array of issues concerning the changes that occur in memory as people grow older including the mechanisms and processes underlying these age related memory changes, how these changes interact with social and cultural environments and potential programs intended to increase memory performance in old age. Similarly the chapters draw upon diverse methodological approaches including cross cultural, extreme group, experimental designs, longitudinal designs, assessing intra participant change and computational approaches and neuroimaging assessment. Together they provide converging evidence for stability and change in memory as people grow older for the underlying causes of these patterns as well as for the heterogeneity in older adults performance. *Memory and Aging* is essential reading for researchers in memory, cognitive aging and gerontology.

**Working Memory and Thinking** Kenneth Gilhooly, Robert H. Logie, 2004-08-02 Thinking and memory are inextricably linked. However a divide and rule approach has led cognitive psychologists to study these two areas in relative isolation. With contributions from some of the leading international researchers on working memory and

thinking the present volume aims to break down the scientific divisions and foster scientific integration in the connections between these two core functions of cognition Broadly defined thinking comprises mentally driven change in current representations The processes involved in such change include application of logical rules heuristics problem solving strategies decision making planning and comprehension of complex material Memory involves the encoding retention and retrieval of information and the retention may be temporary or in a long term knowledge base Thinking cannot occur in a vacuum it relies on the long term memory base and a temporary mental workspace Despite the apparent limitations on mental workspace humans can drive a car and hold a conversation or store partial solutions while tackling other aspects of a problem So too some aspects of thinking are relatively resilient in the face of quite extensive brain damage yet other aspects are remarkably vulnerable to neuroanatomical insults Humans can solve complex problems with many alternative choice points and yet seem to be able to consider only a few hypotheses at any one time These apparent paradoxes present significant scientific challenges as to how humans can be such successful thinkers despite their very limited working memory The chapters herein represent a diversity of views as regards the nature or working memory and forms of human thinking The links between working memory and thinking are directly addressed and made explicit and in so doing this volume offers an increasingly integrated understanding of human thinking and memory *The Oxford Handbook of Thinking and Reasoning* Keith J. Holyoak, Robert G. Morrison, 2013-05-23 The Oxford Handbook of Thinking and Reasoning brings together the contributions of many of the leading researchers in thinking and reasoning to create the most comprehensive overview of research on thinking and reasoning that has ever been available **Aging and Decision Making** Thomas M. Hess, JoNell Strough, Corinna Löckenhoff, 2015-02-17 Decisions large and small play a fundamental role in shaping life course trajectories of health and well being decisions draw upon an individual's capacity for self regulation and self control their ability to keep long term goals in mind and their willingness to place appropriate value on their future well being Aging and Decision Making addresses the specific cognitive and affective processes that account for age related changes in decision making targeting interventions to compensate for vulnerabilities and leverage strengths in the aging individual This book focuses on four dominant approaches that characterize the current state of decision making science and aging neuroscience behavioral mechanisms competence models and applied perspectives Underscoring that choice is a ubiquitous component of everyday functioning Aging and Decision Making examines the implications of how we invest our limited social temporal psychological financial and physical resources and lays essential groundwork for the design of decision supportive interventions for adaptive aging that take into account individual capacities and context variables Divided into four dominant approaches that characterize the current state of decision making science and aging neuroscience Explores the impact of aging on the linkages between cortical structures functions and the behavioral indices of decision making Examines the themes associated with behavioral approaches that attempt integrations of methods models and theories of general decision making with those

derived from the study of aging Details the changes in underlying competencies in later life and the two prevailing themes that have emerged one the general individual differences perspective and two a more clinical focus **Cognitive and Brain**

### **Aging: Interventions to Promote Well-Being in Old Age. Roadmap for Interventions Preventing Cognitive Aging**

Pamela M. Greenwood,Carryl L. Baldwin,Thomas Espeseth,James Campbell Thompson,Xiong Jiang,Philip P.

Foster,2020-03-03 **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 encyclopediaadulthoodandaging com **Longitudinal Aging Research: Cognition, Behavior and Neuroscience** Lutz Jäncke,Mike Martin,Christina Röcke,Susan Mérillat,2022-08-22

**The Aging Consumer** Aimee Drolet,Carolyn Yoon,2020-10-01 The Aging Consumer Perspectives from Psychology and Marketing 2nd edition takes stock of what is known around age and consumer behavior identifies gaps and open questions within the research and outlines an agenda for future research There has been little systematic research done with respect to the most basic questions related to age and consumer behavior such as whether older adults versus young and middle age adults respond to marketing activities including pricing promotions product design and distribution Written by experts The Aging Consumer compiles research on a broad range of topics on consumer marketing from an individual to a societal level of analysis This second edition provides new versions of chapters contained in the 2010 volume that have been updated to reflect the latest psychological and marketing research and thinking Included also are ten new chapters which cover exciting new ground such as changes in metacognition in older adults motivated cognition of the aging consumer and a global perspective on aging and the economy across cultures This updated volume is beneficial for researchers and practitioners in marketing consumer behavior and advertising Additionally The Aging Consumer 2nd edition will appeal to professionals in other fields such as psychology decision sciences gerontology and gerontological social work and those who are concerned with normal human aging and its implications for the everyday behavior of older individuals It will also be of interest to those in fields concerned with the societal implications of an aging population such as economics policy and law **Life Span Human Development** Carol K. Sigelman,Linda De

George,Kimberley Cunial,Elizabeth A. Rider,2018-09-01 The third edition of Life Span Human Development helps students gain a deeper understanding of the many interacting forces affecting development from infancy childhood adolescence and adulthood It includes local multicultural and indigenous issues and perspectives local research in development regionally relevant statistical information and National guidelines on health Taking a unique integrated topical and chronological

approach each chapter focuses on a domain of development such as physical growth cognition or personality and traces developmental trends and influences in that domain from infancy to old age Within each chapter you will find sections on four life stages infancy childhood adolescence and adulthood This distinctive organisation enables students to comprehend the processes of transformation that occur in key areas of human development This text also includes a MindTap course offering with a strong suite of resources including videos and the chronological sections within the text can be easily customised to suit academic and student needs *Issues in Aging* Mark Novak,2009 Issues in Aging 2 EMark Novak San Jose State University ISBN 10 0205578691 ISBN 13 9780205578696 Successful aging How can we create a better old age both for ourselves and others Issues in Aging Second Edition takes an optimistic view of aging and human potential in later life it presents the most up to date facts on aging today the issues raised by these facts and the societal and individual responses that will create a successful old age for us all This text presents the full picture of aging exhibiting the problems as well as the opportunities and advantages that accompany older age It aims to illustrate how generations are dependant on one another and how social conditions affect both the individual and social institutions **The Handbook of Aging and Cognition** Fergus I. M. Craik,Timothy A. Salthouse,2008 Cognitive aging is a flourishing area of research This third edition reviews the findings and theories since the previous edition and evaluates the field s points of growth **Current Index to Journals in Education** ,2000-10 [Handbook of Clinical Psychology of Ageing](#) Robert T. Woods,1996-07-17 This handbook focuses on the key areas in the psychology of ageing Problems associated with later life development and change Emotional problems and depression associated with loss of physical health and with losses and changes in the areas of social relationship and personal identity The important clinical context of service delivery including community care family care giving and institutional aspects A broad range of therapeutic orientations including cognitive behavioural psychodynamic and family therapy approaches It is hard to do justice to the breadth of material in this book I have found the reading of it both stimulating and enlightening despite believing that I was familiar with most of the topics and have no doubt that I will be using it for reaching and reference purposes into the next millennium if there is one book a Clinical Psychologist working with older people needs this is it Steve Boddington International Journal of Social Psychiatry **Developmental Psychology** Peter Bryant,Andrew M. Colman,1995 For the undergraduate course in psychology **Contemporary Issues in Bioethics** Tom L. Beauchamp,LeRoy Walters,2008 CONTEMPORARY ISSUES IN BIOETHICS brings you balanced coverage of the most pressing topics in bioethics including partial birth abortion organ transplants and global pandemics to name a few With a diverse range of classic and current essays as well as actual medical and legal cases written by outstanding medical ethics scholars this anthology will help you understand each issue from a variety of standpoints including those of medical researchers and practitioners legal experts and philosophers **Challenges of Biological Aging** Edward J. Masoro,1999-07-16 This volume provides the non biologist an overview of what is known about the

physiological bases of aging The author examines the many basic theories and emerging hypotheses underlying the molecular cellular and systemic processes involved in senescence He addresses the normal physiological changes that characterize the aging phenotype and also considers the role of many age associated diseases in growing older Masoro synthesizes a much needed unified theory of biological aging to which explains how and why the body grows into the condition we call old This text is intended for gerontology students in training as well as for human physiologists interested in gerontology OLD COPY What is the biological basis of aging Why does aging occur This volume will provide the reader with an overview of what we know about the biology of aging In a clearly written and accessible style the author examines the many theories and hypotheses underlying the molecular cellular and systemic processes involved in growing older Also considered are the many age associated diseases and physiological changes that characterize aging as well as interventions from lifestyle modifications to pharmacological treatments proposed to reverse age related changes He then synthesizes a much needed unifying concept of the biological basis of aging to help us understand why we grow old This book is intended for students training to become gerontologists as well as biologists not conversant in the aging field

**Journal of Speech-language Pathology and Audiology** ,1995     The Brain: Degeneration, Damage and Disorder Judith

Metcalfe,1998 This book specifically addresses what happens to the human nervous system during aging after damage and as a result of genetically inherited defects It also examines some of the ways in which nervous system functioning and patterns of behavior can mutate Clear two color diagrams are included throughout and a list of learning objectives and questions are presented within each chapter 67 illus     *Proceedings of the British Psychological Society* British Psychological Society,2005

The Top Books of the Year Working Memory And Ageing Current Issues In Memory The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year.

Working Memory And Ageing Current Issues In Memory : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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