

# **Eye Movements**

Dennis F. Fisher, Richard A. Monty, John W. Senders

#### **Eye Movements:**

The Oxford Handbook of Eye Movements Simon Liversedge, Iain Gilchrist, Stefan Everling, 2011-08-18 In the past few years there has been an explosion of eye movement research in cognitive science and neuroscience This has been due to the availability of off the shelf eye trackers along with software to allow the easy acquisition and analysis of eye movement data Accompanying this has been a realisation that eye movement data can be informative about many different aspects of perceptual and cognitive processing Eye movements have been used to examine the visual and cognitive processes underpinning a much broader range of human activities including language production dialogue human computer interaction driving behaviour sporting performance and emotional states Finally in the past thirty years there have been real advances in our understanding of the neural processes that underpin eye movement behaviour The Oxford Handbook of Eye Movements provides the first comprehensive review of the entire field of eye movement research In over fifty chapters it reviews the developments that have so far taken place the areas actively being researched and looks at how the field is likely to devlop in the coming years The first section considers historical and background material before moving onto section 2 on the neural basis of eye movements. The third and fourth sections looks at visual cognition and eye movements and eye movement pathology and development The final sections consider eye movements and reading and language processing and eye movements Bringing together cutting edge research from and international team of leading psychologists neuroscientists and vision researchers this book is the definitive reference work in this field The Neurology of Eye Movements R. John Leigh, David S. Zee, 2015 lt is a tremendous achievement to have provided this highly comprehensive but readable text which informs such a large group of researchers and clinicians Christopher Kennard PhD FRCP FMedSci Professor of Clinical Neurology Head Nuffield Department of Clinical Neurosciences University of Oxford John Radcliffe Hospital Oxford United Kingdom A monograph written with deep knowledge understanding wisdom clarity intelligibility the superlatives could go on and on A remarkable achievement and a great gift to all of us from the two modern giants of eye movement disorders Michael Halmagyi MD Eye and Ear Research Unit Neurology Department Royal Prince Alfred Hospital The University of Sydney Australia The fifth edition of The Neurology of Eye Movements is a must for all neurologists and neuroscientists interested in how the human vestibular and oculomotor systems adapt to movement in space and to optimally viewing the world and its contents Louis R Caplan MD Department of Neurology Beth Israel Deaconess Medical Center Harvard Medical School Boston Massachusetts The Neurology of Eye Movements: Text and CD-ROM Departments of Neurology R. John Leigh Professor, Neuroscience Otolaryngology and Biomedical Engineering Case Western Reserve University University Hospitals and Veterans Affairs Medical Center Cleveland Ohio, Departments of Neurology David S. Zee Professor, Ophthalmology Otolaryngology Head and Neck Surgery and Neuroscience, 1999-08-26 The Neurology of Eye Movements provides clinicians with a synthesis of current scientific information that can be applied to the diagnosis and treatment of

disorders of ocular motility Basic scientists will also benefit from descriptions of how data from anatomical electrophysiological pharmacological and imaging studies can be directly applied to the study of disease By critically reviewing such basic studies the authors build a conceptual framework that can be applied to the interpretation of abnormal ocular motor behavior at the bedside These syntheses are summarized in displays new figures schematics and tables Early chapters discuss the visual need and neural basis for each functional class of eye movements Two large chapters deal with the evaluation of double vision and systematically evaluate how many disorders of the central nervous system affect eye movements This edition has been extensively rewritten and contains many new figures and an up to date section on the treatment of abnormal eye movements such as nystagmus A major innovation has been the development of an option to read the book from a compact disc make use of hypertext links which bridge basic science to clinical issues and view the major disorders of eye movements in over 60 video clips This volume will provide pertinent up to date information to neurologists neuroscientists ophthalmologists visual scientists otalaryngologists optometrists biomedical engineers and psychologists

Eye Movements Roger PG van Gompel,2007-03-27 Eye movement recording has become the method of choice in a wide variety of disciplines investigating how the mind and brain work This volume brings together recent high quality eye movement research from many different disciplines and in doing so presents a comprehensive overview of the state of the art in eye movement research Sections include the history of eye movement research physiological and clinical studies of eye movements transsaccadic integration computational modelling of eye movements reading spoken language processing attention and scene perception and eye movements in natural environments Includes recent research from a variety of disciplines Divided into sections based on topic areas with an overview chapter beginning each section Through the study of eye movements we can learn about the human mind and eye movement recording has become the method of choice in many disciplines Eye Movements and Human Information Processing International Union of Psychological Science, 1985

The Oxford Handbook of Eye Movements Simon Liversedge, Iain Gilchrist, Stefan Everling, 2011-08-18 In the past few years there has been an explosion of eye movement research in cognitive science and neuroscience The Oxford Handbook of Eye Movements provides the first comprehensive review of the entire field of eye movement research This book is the definitive reference work in this field **Eye Movement Research** J.M. Findlay, R. Walker, R.W. Kentridge, 1995-02-03 This volume contains selected and edited papers from the 7th European Conference on Eye Movements ECEM 7 held in Durham UK on August 31 September 3 1993 The volume is organized as follows Invited Lectures Pursuit and Co Ordination Saccade and Fixation Control Oculomotor Physiology Clinical and Medical Aspects of Eye Movements Eye Movements and Cognition Eye Movements and Language and finally Displays and Applications The Moving Tablet of the Eye Nicholas Wade, Benjamin Tatler, 2005-06-30 Tracing the history of eye movement research this work shows how great strides were made in this area before modern recording devices were available especially in the measurement of nystagmus Eye

Movements Dennis F. Fisher, Richard A. Monty, John W. Senders, 2017-03-27 Originally published in 1981 this volume represents the edited proceedings of the third symposium on eye movements and behaviour sponsored by the US Army Human Engineering Laboratory The conference titled The Last Whole Earth Eye Movement Conference was held in Florida in February 1980 As the conference approached seizure of the American hostages by the Iranian militants the Russian invasion of Afghanistan and the uncertain economic outlook around the world made it appear as though the title was a self fulfilling prophecy But the meeting proved highly successful and people throughout the world seemed to be adapting to the stresses of international tension making the possibility of subsequent meetings more likely The present volume is intended to serve as a complementary text to the earlier texts Eye Movements and Psychological Processes Monty Senders 1976 and Eye Movements and the Higher Psychological Functions Senders Fisher Monty 1978 rather than a revision and update of them

Eye Movements and Their Role in Visual and Cognitive Processes Eileen Kowler, 1990 This is the first book to deal exclusively with oculomotor performance in a series that up to this point has been devoted largely to reviews of research on oculomotor anatomy and physiology The publication of this volume signifies the recognition of the fact that a genuine understanding of eye movement will not come about through the study of neurons alone We need to know about the capacity to make different kinds of eye movement and about how such oculomotor capacity is used to accomplish different sorts of visual and cognitive tasks i e how the eye can move and why it moves in particular ways Research on respective topics was critically evaluated by the contributing authors resulting in a controversial and up to date appraisal of this subject Eye **Movements and Visual Cognition** Keith Rayner, 2012-12-06 Edited by a leading scholar in the field Eye Movements and Visual Cognitionpresents an up to date overview of the topics relevant to understanding the relationship between eye movements and visual cognition particularly in relation to scene perception and reading Cognitive psychologists neuropsychologists educational psychologists and reading specialists will find this volume to be an authoritative source of state of the art research in this rapidly expanding area of study Models of Horizontal Eye Movements Alireza Ghahari, John D. Enderle, 2022-06-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements. The purpose of this book series is focused primarily on mathematical models of the horizontal saccadic eye movement system and the smooth pursuit system rather than on how visual information is processed A saccade is a fast eye movement used to acquire a target by placing the image of the target on the fovea Smooth pursuit is a slow eye movement used to track a target as it moves by keeping the target on the fovea The vestibular ocular movement is used to keep the eyes on a target during brief head movements The optokinetic eye movement is a combination of saccadic and slow eye movements that keeps a full field image stable on the retina during sustained head rotation Each of these movements is a conjugate eye movement that is movements of both eyes together driven by a common neural source A vergence movement is a non conjugate eye movement allowing the eyes to track targets as they come closer or farther away In Part 1 early models of saccades and smooth pursuit are presented A number of oculomotor plant models are described therein beginning with the Westheimer model published in 1954 and up through our 1995 model involving a 4th order oculomotor plant model In Part 2 a 2009 version of a state of the art model is presented for horizontal saccades that is 3rd order and linear and controlled by a physiologically based time optimal neural network In this book a multiscale model of the saccade system is presented focusing on the neural network Chapter 1 summarizes a whole muscle model of the oculomotor plant based on the 2009 3rd order and linear and controlled by a physiologically based time optimal neural network Chapter 2 presents a neural network model of biophysical neurons in the midbrain for controlling oculomotor muscles during horizontal human saccades To investigate horizontal saccade dynamics a neural circuitry including omnipause neuron premotor excitatory and inhibitory burst neurons long lead burst neuron tonic neuron interneuron abducens nucleus and oculomotor nucleus is developed A generic neuron model serves as the basis to match the characteristics of each type of neuron in the neural network We wish to express our thanks to William Pruehsner for drawing many of the illustrations in this book Table of Contents Acknowledgments 2009 Linear Homeomorphic Saccadic Eye Movement Model A Neuron Based Time Optimal Controller of Horizontal Saccadic Eye Movements and Glissades References Eye Movements from Physiology to Cognition J.K. O'Regan, A. Lévy-Schoen, 2013-10-22 Eye **Authors Biographies** movement research from a range of disciplines is presented in this book Contributions from all over the world examine theoretical and applied aspects of eye movements including classical biocybernetic models physiology pathology ocular exploration reading ergonomics human factors and microcomputer calibration techniques The Control of Eve **Movements** Paul Bach-y-Rita, 2012-12-02 The Control of Eye Movements presents the proceedings of the Symposium on the Control of Eye Movements organized by the Smith Kettlewell Institute of Visual Sciences of the Pacific Medical Center and the Department of Visual Sciences of the University of the Pacific Graduate School of Medical Sciences San Francisco California November 10 11 1969 The book is organized into two parts Part I is devoted to presentations of anatomical physiological pharmacological psychological and clinical aspects of eye movements The material presented should provide a valuable reference source as well as increase awareness of the need for further investigation of many aspects of the basic physiology of eye movements Part II presents a series of papers dealing with models of various parts of the oculomotor system The modeling approach to control of eye movements is still in its infancy and the present work presents the first comprehensive survey of biophysical mathematical and engineering aspects of eye movement control Models of Horizontal Eye Movements, Part I John Enderle, 2022-06-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements. The purpose of this book is focused primarily on mathematical models of the horizontal saccadic eye movement system and the smooth pursuit system rather than on how visual information is processed A saccade is a fast eye movement used to acquire a target

by placing the image of the target on the fovea Smooth pursuit is a slow eye movement used to track a target as it moves by keeping the target on the fovea The vestibular ocular movement is used to keep the eyes on a target during brief head movements. The optokinetic eye movement is a combination of saccadic and slow eye movements that keeps a full field image stable on the retina during sustained head rotation Each of these movements is a conjugate eye movement that is movements of both eyes together driven by a common neural source A vergence movement is a non conjugate eye movement allowing the eyes to track targets as they come closer or farther away In this book early models of saccades and smooth pursuit are presented The smooth pursuit system allows tracking of a slow moving target to maintain its position on the fovea Models of the smooth pursuit have been developed using systems control theory all involving a negative feedback control system that includes a time delay controller and plant in the forward loop with unity feedback The oculomotor plant and saccade generator are the basic elements of the saccadic system. The oculomotor plant consists of three muscle pairs and the eyeball A number of oculomotor plant models are described here beginning with the Westheimer model published in 1954 and up through our 1995 model involving a 4th order oculomotor plant model The work presented here is not an exhaustive coverage of the field but focused on the interests of the author In Part II a state of art model of the saccade system is presented including a neural network that controls the system Table of Contents Introduction Smooth Pursuit Models Early Models of the Horizontal Saccadic Eye Movement System Velocity and Acceleration Estimation 1995 Linear Homeomorphic Saccadic Eye Movement Model **Eye Movements and Visual Cognition** Raymond M. Klein , Simon P. Liversedge, 2020-12-29 This eBook is a volume based on the Eye Movements and Visual Cognition Special Issue published in the journal Vision by MDPI and edited by Raymond Klein and Simon Liversedge The eBook comprises 19 high quality chapters that are original and topical works by leading academic figures in the field of human vision and visual cognition In putting together the book we aimed to provide an informative body of work to stimulate and foster useful intellectual exchange between individuals working on basic theoretical issues as well as on more applied aspects of vision and cognitive science From the outset we sought papers that provide concise and astute reviews of topics within this broad field The present volume includes reviews that are narrative critiquing and summarizing research on a topic tutorial with a focus on methods and findings empirical e g meta analytic and theoretically synthetic The eBook also features chapters with new empirical content that resolves an undecided issue stemming from an evaluation of the literature Finally where possible we also selected papers that bridge theoretical and applied issues and provide insight into behavior and its neural substrate All chapters were subject to peer review and went through several rounds of revision prior to acceptance Models of Horizontal Eye Movements, Part II John Enderle, Wei Zhou, 2022-06-01 There are five different types of eye movements saccades smooth pursuit vestibular ocular eye movements optokinetic eye movements and vergence eye movements The purpose of this book is focused primarily on mathematical models of the horizontal saccadic eye movement system and the

smooth pursuit system rather than on how visual information is processed A saccade is a fast eye movement used to acquire a target by placing the image of the target on the fovea Smooth pursuit is a slow eye movement used to track a target as it moves by keeping the target on the fovea The vestibular ocular movement is used to keep the eyes on a target during brief head movements The optokinetic eye movement is a combination of saccadic and slow eye movements that keeps a full field image stable on the retina during sustained head rotation Each of these movements is a conjugate eye movement that is movements of both eyes together driven by a common neural source A vergence movement is a non conjugate eye movement allowing the eyes to track targets as they come closer or farther away In this book a 2009 version of a state of the art model is presented for horizontal saccades that is 3rd order and linear and controlled by a physiologically based time optimal neural network The oculomotor plant and saccade generator are the basic elements of the saccadic system The control of saccades is initiated by the superior colliculus and terminated by the cerebellar fastigial nucleus and involves a complex neural circuit in the mid brain This book is the second part of a book series on models of horizontal eye movements Table of Contents 2009 Linear Homeomorphic Saccadic Eye Movement Model and Post Saccade Behavior Dynamic and Glissadic Overshoot Neural Network for the Saccade Controller Handbook of Developmental Cognitive Neuroscience, second edition Charles A. Nelson, Monica Luciana, 2008-07-11 The second edition of an essential resource to the evolving field of developmental cognitive neuroscience completely revised with expanded emphasis on social neuroscience clinical disorders and imaging genomics The publication of the second edition of this handbook testifies to the rapid evolution of developmental cognitive neuroscience as a distinct field Brain imaging and recording technologies along with well defined behavioral tasks the essential methodological tools of cognitive neuroscience are now being used to study development Technological advances have yielded methods that can be safely used to study structure function relations and their development in children's brains These new techniques combined with more refined cognitive models account for the progress and heightened activity in developmental cognitive neuroscience research The Handbook covers basic aspects of neural development sensory and sensorimotor systems language cognition emotion and the implications of lifelong neural plasticity for brain and behavioral development The second edition reflects the dramatic expansion of the field in the seven years since the publication of the first edition This new Handbook has grown from forty one chapters to fifty four all original to this edition It places greater emphasis on affective and social neuroscience an offshoot of cognitive neuroscience that is now influencing the developmental literature The second edition also places a greater emphasis on clinical disorders primarily because such research is inherently translational in nature Finally the book s new discussions of recent breakthroughs in imaging genomics include one entire chapter devoted to the subject The intersection of brain behavior and genetics represents an exciting new area of inquiry and the second edition of this essential reference work will be a valuable resource for researchers interested in the development of brain behavior relations in the context of both typical and atypical development

The Role of Eye Movements in Sports and Active Living Fabio Augusto Barbieri, Sérgio Tosi Rodrigues, 2020-12-23 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiers in org about contact *European Conference on Eye Movements (2nd : 1983 : Nottingham, England)*, 1984-01-01 European Conference on Eye Movements 2nd 1983 Nottingham England

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