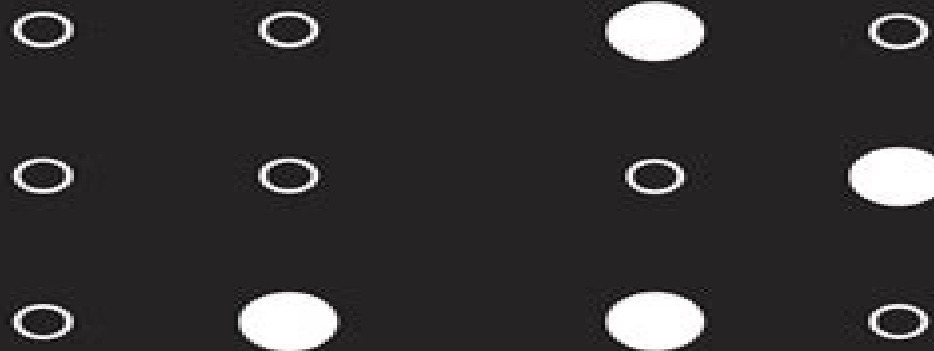


BLIND VISION



The Neuroscience of Visual
Impairment

Zaira Cattaneo and
Tomaso Vecchi

Blind Vision The Neuroscience Of Visual Impairment

Giuseppe Lo Giudice, Angel Catala



Blind Vision The Neuroscience Of Visual Impairment:

Blind Vision Zaira Cattaneo,Tomaso Vecchi,2011-03-04 An investigation of the effects of blindness and other types of visual deficit on cognitive abilities Can a blind person see The very idea seems paradoxical And yet if we conceive of seeing as the ability to generate internal mental representations that may contain visual details the idea of blind vision becomes a concept subject to investigation In this book Zaira Cattaneo and Tomaso Vecchi examine the effects of blindness and other types of visual deficit on the development and functioning of the human cognitive system Drawing on behavioral and neurophysiological data Cattaneo and Vecchi analyze research on mental imagery spatial cognition and compensatory mechanisms at the sensorial cognitive and cortical levels in individuals with complete or profound visual impairment They find that our brain does not need our eyes to see Cattaneo and Vecchi address critical questions of broad importance the relationship of visual perception to imagery and working memory and the extent to which mental imagery depends on normal vision the functional and neural relationships between vision and the other senses the specific aspects of the visual experience that are crucial to cognitive development or specific cognitive mechanisms and the extraordinary plasticity of the brain as illustrated by the way that in the blind the visual cortex may be reorganized to support other perceptual or cognitive functions In the absence of vision the other senses work as functional substitutes and are often improved With *Blind Vision* Cattaneo and Vecchi take on the tyranny of the visual pointing to the importance of the other senses in cognition

Blind Vision Zaira Cattaneo,Tomaso Vecchi,2023-12-05 An investigation of the effects of blindness and other types of visual deficit on cognitive abilities Can a blind person see The very idea seems paradoxical And yet if we conceive of seeing as the ability to generate internal mental representations that may contain visual details the idea of blind vision becomes a concept subject to investigation In this book Zaira Cattaneo and Tomaso Vecchi examine the effects of blindness and other types of visual deficit on the development and functioning of the human cognitive system Drawing on behavioral and neurophysiological data Cattaneo and Vecchi analyze research on mental imagery spatial cognition and compensatory mechanisms at the sensorial cognitive and cortical levels in individuals with complete or profound visual impairment They find that our brain does not need our eyes to see Cattaneo and Vecchi address critical questions of broad importance the relationship of visual perception to imagery and working memory and the extent to which mental imagery depends on normal vision the functional and neural relationships between vision and the other senses the specific aspects of the visual experience that are crucial to cognitive development or specific cognitive mechanisms and the extraordinary plasticity of the brain as illustrated by the way that in the blind the visual cortex may be reorganized to support other perceptual or cognitive functions In the absence of vision the other senses work as functional substitutes and are often improved With *Blind Vision* Cattaneo and Vecchi take on the tyranny of the visual pointing to the importance of the other senses in cognition

[The Golden Age of Data Visualization](#) Kim Marriott,2024-09-04 We are living in the Golden Age of Data Visualization The COVID 19 pandemic has demonstrated

how we increasingly use data visualizations to make sense of the world Business analysts fill their presentations with charts journalists use infographics to engage their readers we rely on the dials and gauges on our household appliances and we use mapping apps on our smartphones to find our way This book explains how and why this has happened It details the evolution of information graphics the kinds of graphics at the core of data visualization maps diagrams charts scientific and medical images from prehistory to the present day It explains how the cultural context production and presentation technologies and data availability have shaped the history of data visualization It considers the perceptual and cognitive reasons why data visualization is so effective and explores the little known world of tactile graphics raised line drawings used by people who are blind The book also investigates the way visualization has shaped our modern world The European Renaissance and the Scientific Revolution relied on maps and technical and scientific drawings and graphics influence how we think about abstract concepts like time and social connection This book is written for data visualization researchers and professionals and anyone interested in data visualization and the way we use graphics to understand and think about the world

First Steps with a Visually Impaired Person Anne Bragard,2020-09-18 This brochure realized by field professionals from the Royal Institute for Deaf and Blind specialized in the support of visually impaired persons should be considered as a toolbox offering the basis for the first steps with a visually impaired person

User-Centered Software Development for the Blind and Visually Impaired: Emerging Research and Opportunities Álvarez Robles, Teresita de Jesús,Álvarez Rodríguez, Francisco Javier,Benítez-Guerrero, Edgard,2019-07-05 Human computer interaction studies the users and their interaction with an interactive software system ISS However these studies are designed for people without any type of disability causing there to be few existing techniques or tools that focus on the characteristics of a specific user thus causing accessibility and utility issues for neglected segments of the population This reference source intends to remedy this lack of research by supporting an ISS focused on people with visual impairment User Centered Software Development for the Blind and Visually Impaired Emerging Research and Opportunities is a collection of innovative research on techniques applications and methods for carrying out software projects in which the main users are people with visual impairments While highlighting topics including mobile technology assistive technologies and human computer interaction this book is ideally designed for software developers computer engineers designers academics researchers professionals and educators interested in current research on usable and accessible technologies

Virtual Reality for Psychological and Neurocognitive Interventions Albert "Skip" Rizzo,Stéphane Bouchard,2019-08-24 This exciting collection tours virtual reality in both its current therapeutic forms and its potential to transform a wide range of medical and mental health related fields Extensive findings track the contributions of VR devices systems and methods to accurate assessment evidence based and client centered treatment methods and as described in a stimulating discussion of virtual patient technologies innovative clinical training Immersive digital technologies are shown enhancing opportunities for patients to react to situations therapists to process patients

physiological responses and scientists to have greater control over test conditions and access to results Expert coverage details leading edge applications of VR across a broad spectrum of psychological and neurocognitive conditions including Treating anxiety disorders and PTSD Treating developmental and learning disorders including Autism Spectrum Disorder Assessment of and rehabilitation from stroke and traumatic brain injuries Assessment and treatment of substance abuse Assessment of deviant sexual interests Treating obsessive compulsive and related disorders Augmenting learning skills for blind persons Readable and relevant Virtual Reality for Psychological and Neurocognitive Interventions is an essential idea book for neuropsychologists rehabilitation specialists including physical speech vocational and occupational therapists and neurologists Researchers across the behavioral and social sciences will find it a roadmap toward new and emerging areas of study

Visual Impairment and Blindness Giuseppe Lo Giudice,Angel Catala,2020-09-09 Blindness and vision impairment affect at least 2.2 billion people worldwide with most individuals having a preventable vision impairment The majority of people with vision impairment are older than 50 years however vision loss can affect people of all ages Reduced eyesight can have major and long lasting effects on all aspects of life including daily personal activities interacting with the community school and work opportunities and the ability to access public services This book provides an overview of the effects of blindness and visual impairment in the context of the most common causes of blindness in older adults as well as children including retinal disorders cataracts glaucoma and macular or corneal degeneration

Finding Blindness David Bolt,2022-12-30 This edited volume explores blindness as a construct with which we the contributors engage as part of our social existence and or academic research Irrespective of eye conditions or the lack thereof blindness is an understanding at which we have all come to arrive On the way to this conceptual point which is in any case unlikely ever to be fixed we have passed or visited many formative cultural stations In the terms of autocritical disability studies i.e. an explicitly embodied development of critical disability studies these cultural stations include key moments in education and training the reflective pursuits of philosophy aesthetics and cultural theory literary works such as autobiography novels short stories drama and poetry visual texts ranging from photography to postage stamps technological developments like television computer applications and social media value systems defined by family and or religion and the social phenomenon of hate and war Each chapter in this volume engages with two of these cultural stations some ostensibly if not profoundly positive or indeed negative and some that contradict each other within and across chapters This book will be of interest to all scholars and students of disability studies sociology education and health

Documentary and Stereotypes Catalin Brylla,2023-08-22 This book studies how documentaries and factual media in general can contribute to the reduction of social stigma and prejudice It adopts models from social psychology media studies and cultural studies and is intended for scholars and media makers who aim to increase social inclusion and diversity by deconstructing harmful boundaries between social groups Such boundaries may be based on the stereotyping of ethnicity culture age disability gender and sexual orientation for example

The first part of the book outlines the functionality of stereotypes as essential processes for social cognition both in real life and during documentary viewing The second part establishes a classification system for stigmatising media stereotypes and formulates a methodology based on critical discourse analysis to analyse them in narrative and audio visual representations The third and final part of the book conceptualises a set of methodologies to reduce stigmatising stereotypes These methodologies are based on 1 representations that prompt perspectival alignment with screen characters and 2 the perceived salience of multiple intersecting social identities

Design for Tomorrow—Volume 1 Amaresh Chakrabarti, Ravi Poovaiah, Prasad Bokil, Vivek Kant, 2021-04-26 This book showcases cutting edge research papers from the 8th International Conference on Research into Design ICoRD 2021 written by eminent researchers from across the world on design processes technologies methods and tools and their impact on innovation for supporting design for a connected world The theme of ICoRD 21 has been Design for Tomorrow The world as we know it in our times is increasingly becoming connected In this interconnected world design has to address new challenges of merging the cyber and the physical the smart and the mundane the technology and the human As a result there is an increasing need for strategizing and thinking about design for a better tomorrow The theme for ICoRD 21 serves as a provocation for the design community to think about rapid changes in the near future to usher in a better tomorrow The papers in this book explore these themes and their key focus is design for tomorrow how are products and their development be addressed for the immediate pressing needs within a connected world The book will be of interest to researchers professionals and entrepreneurs working in the areas on industrial design manufacturing consumer goods and industrial management who are interested in the new and emerging methods and tools for design of new products systems and services

A Pluralist's Guide to Solving Molyneux's Problem Brian Glenney, 2024-12-31 This book presents a novel pluralist strategy for answering Molyneux s 300 year old conundrum Would a person born blind but given sight identify a shape previously known only by their touch The author interweaves historical scholarship with contemporary philosophical work and empirical research on animal infant and adult human perception The author argues that we need a new approach to Molyneux s problem because we do not know what the problem is really about and it is untestable because a Molyneux subject cannot be physically realized He criticizes Molyneux s question for its simplistic taxonomy of the blind that groups significant individual differences into a singular ontology Research in the cognitive sciences confirms that various kinds of blindness can co occur such as ocular cortical and psychological blindness Therefore the author adopts an explanatory pluralism for answering Molyneux s problem which includes no yes and no answer answers according to the domain of inquiry being used This account provides a research based answer to a long standing problem using previously unheeded insights particularly from animal crossmodal perception studies to retell a more complex story of perception its levels of explanation and integration A Pluralist s Guide to Solving Molyneux s Problem will be of interest to researchers and advanced students working in comparative psychology epistemology history of philosophy

philosophy of perception Haptic Interfaces for Accessibility, Health, and Enhanced Quality of Life Troy McDaniel, Sethuraman Panchanathan, 2019-12-18 This book is the first resource to provide in depth coverage on topical areas of assistive rehabilitative and health related applications for haptic touch based technologies Application topics are grouped into thematic areas spanning haptic devices for sensory impairments health and well being and physical impairments which are illustrated in this book A diverse group of experts in the field were invited to contribute different chapters to provide complementary and multidisciplinary perspectives Unlike other books on haptics which focus on human haptic perception specific modalities of haptics e g realistic haptic rendering or broadly cover the subfields of haptics this book takes an application oriented approach to present a tour of how the field of haptics has been advanced with respect to important impactful thematic focuses Under Theme 1 Sensory Impairments haptics technologies to support individuals with sensory impairments is presented which includes Spatial awareness in sensory impairments through touch Haptically assisted interfaces for persons with visual impairments and Enabling learning experiences for visually impaired children by interaction design Under Theme 2 Haptics for Health and Well Being haptics technologies aimed at supporting exercise and healthy aging will be covered including Haptics in rehabilitation exergames and health Therapeutic haptics for mental health and well being and Applications of haptics in medicine Under Theme 3 Haptics for Physical Impairments haptics technologies for enhancing the quality of life for individuals with weakened impaired limbs or neurological diseases impacting movement is targeted including Assistive soft exoskeletons with pneumatic artificial muscles Haptics for accessibility in rehabilitative hardware and intelligent robotics and immersive displays for enhancing haptic interaction in physical rehabilitation environments Engineers scientists and researchers working in the areas of haptics multimedia virtual augmented mixed reality human computer interaction assistive technologies rehabilitative technologies healthcare technologies and or actuator design will want to purchase this book Advanced level students and hobbyists interested in haptics will also be interested in this book **Perception: The Basics** Bence Nanay, 2024-02-01 This book combines approaches from philosophy psychology and neuroscience in the study of perception In addition to appealing to readers from all three of these disciplines Perception The Basics is a perfect introduction for students and general readers Its interdisciplinary coverage of all aspects of perception does not require familiarity with either abstract philosophical concepts or neuroscientific knowledge Besides addressing the classic questions of how perception works the book highlights the intricate connections between perception and action as well as perception that is not triggered by sensory input like mental imagery dreaming and hallucination Further the book balances out an overemphasis on vision in the literature by giving almost equal coverage to all the sense modalities although some examples are easier to present in visual form Questions that are discussed in detail include What is the function of perception Is perception an unbiased way of learning about the world What is the difference between the different sense modalities like seeing hearing smelling etc What is the connection between perception and action What is the

relation between perception mental imagery dreaming and hallucination With helpful chapter summaries and a comprehensive final bibliography *Perception The Basics* is sure to be the first stop for anyone trying to better understand this important area of interdisciplinary research

Visual Diagnosis and Care of the Patient with Special Needs Taub, Mary Bartuccio, Dominick M. Maino, 2012 *Visual Diagnosis and Care of the Patient with Special Needs* provides a thorough review of the eye and vision care needs of patients with special needs This book gives you a better understanding of the most frequently encountered developmental and acquired disabilities seen in the eye care practitioner's office These disabilities include patients with autism brain injury Fragile X syndrome and Down syndrome as well as those with psychiatric illness dual diagnosis and more The text discusses in great detail the visual issues inherent in these populations and their possible treatment A group of authors with approximately 500 years of experience in the field of eye care and special populations have been brought together to develop this comprehensive reference It may appear that this book is written primarily for eye care practitioners such as optometrists and ophthalmologists while vision is the overriding topic this book serves as an excellent resource for a multitude of professions including those engaged in occupational therapy physical therapy speech and language therapy psychiatry social work pediatric medicine and special education

Multisensory Imagery Simon Lacey, Rebecca Lawson, 2013-01-19 Is a pear sweeter than a peach Which of Mona Lisa's hands is crossed over the other What would the Moonlight Sonata sound like played by a brass band Although these are questions that appeal to mental imagery in a variety of sensory modalities mental imagery research has been dominated by visual imagery With the emergence of a well established multisensory research community however it is time to look at mental imagery in a wider sensory context Part I of this book provides overviews of unisensory imagery in each sensory modality including motor imagery together with discussions of multisensory and cross modal interactions synesthesia imagery in the blind and following brain damage and methodological considerations Part II reviews the application of mental imagery research in a range of settings including individual differences skilled performance such as sports and surgical training psychopathology and therapy through to stroke rehabilitation This combination of comprehensive coverage of the senses with reviews from both theoretical and applied perspectives not only complements the growing multisensory literature but also responds to recent calls for translational research in the multisensory field

The Practical Accomplishment of Everyday Activities Without Sight Brian L. Due, 2023-12-11 This book is about the everyday life of people with visual impairment or blindness Using video ethnographic methods and ethnomethodological conversation analysis it unpacks the practical accomplishments of everyday activities such as navigating in public space identifying objects and obstacles being included in workplace activities interacting with guide dogs or interacting in museums or classes in school Navigation social inclusion and the world of touch constitute key phenomena that are affected by visual impairment and which we study in this book Whereas sighted people use their sight for navigating for figuring out the location of co participants and the embodied cues they produce and

for achieving understanding of objects in the world visually impaired people on the contrary cannot rely on vision for navigating for interpreting embodied cues or for identifying or recognizing objects Other sensory resources and other practices are employed to accomplish these basic human actions The chapters in this book present examples and findings relevant to these issues and draw out the general theoretical implications of these findings Whereas existing research often studies visual impairment from a medical cognitive and psychological perspective this book provides insights into how visually impaired people accomplish ordinary activities in orderly organized ways by a detailed study of their actions While most books describe cognitive and biological issues many of them using experimental methods this book provides empirical findings about the actual daily lives as it naturally unfolds based on video recordings The book contributes insights into the practices of living with visual impairment as well as perspectives for rethinking some of the most basic aspects of human sociality including perception interaction multisensoriality and ocularcentrism the view that the world is de facto designed by and for sighted persons As such the book provides novel findings in the field of ethnomethodological conversation analysis Renewing the social model of disability this book will appeal to scholars of sociology with interests in ethnomethodology and conversation analysis the emergence of practical skills and understandings of disability in terms of relations between the individual and the social environment Chapter 1 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Computers Helping People with Special Needs Klaus Miesenberger, Georgios Kouroupetroglou, 2018-07-02 The two volume set LNCS 10896 and 10897 constitutes the refereed proceedings of the 16th International Conference on Computers Helping People with Special Needs ICCHP 2018 held in Linz Austria in July 2018 The 101 revised full papers and 78 short papers presented were carefully reviewed and selected from 356 submissions The papers are organized in the following topical sections Web accessibility in the connected world accessibility and usability of mobile platforms for people with disabilities and elderly persons design development and engineering accessible system information document design accessible e learning e learning for accessibility AT personalized access to TV film theatre and music digital games accessibility accessibility and usability of self service terminals technologies and systems universal learning design motor and mobility disabilities AT HCI care empowerment of people with cognitive disabilities using digital technologies augmented and alternative communication AAC supported speech Art Karshmer lectures in access to mathematics science and engineering environmental sensing technologies for visual impairment 3D printing in the domain of assistive technologies AT and do it yourselves DIY AT tactile graphics and models for blind people and recognition of shapes by touch access to artworks and its mediation by and for visually impaired people digital navigation for people with visual impairments low vision and blindness human computer interaction future perspectives for ageing well AAL tools products services mobile healthcare and m health apps for people with disabilities and service and information provision Cortical Visual Impairment Christine

Roman-Lantzy,2007 The current leading cause of visual impairment among children is not a disease or condition of the eyes but cortical visual impairment CVI also known as cerebral visual impairment in which visual dysfunction is caused by damage or injury to the brain The definition nature and treatment of CVI are the focus of great concern and widespread debate and this complex condition poses challenges to professionals and families seeking to support the growth and development of visually impaired children On the basis of more than 30 years experience in working with hundreds of children of all ages with CVI Christine Roman Lantzy has developed a set of unique assessment tools and systematic targeted principles whose use has helped children learn to use their vision more effectively This one of a kind resource provides readers with both a conceptual framework with which to understand working with CVI and concrete strategies to apply directly in their work

The Neuroscience of Everyday Life Winnie Dunn,Timothy J. Wolf,Lorie Gage Richards,Dawn M. Nilsen,2025-01-22 By weaving vignettes and case studies throughout this fascinating and original textbook provides an accessible primer not only on the key principles of neuroscience but crucially how they may manifest in the everyday lives of people with neurological conditions Each chapter begins with the story of a person or family including a description of what they want to do in their everyday life before presenting the neuroscientific principles that underlie this person s situation Rather than a technical book about neuroanatomy physiology or pathology the spotlight is on understanding the way that neurological differences impact a person s life Through focusing on a particular condition each chapter highlights a different aspect of the nervous system and what happens when things change A wide range of topics are covered from conditions such as Parkinson s dementia MS and autism to conditions resulting from traumatic events such as spinal cord injuries stroke and chronic pain The goal of the book is to trace a thread from neuroscience to how the nervous system affects active participation in daily activities This approach gives students and professionals a thorough and informed grounding to support problem solving in practice improving evidence based assessment interventions and outcomes Following current evidence based teaching practices this text emphasizes engaged teaching learning methods throughout each chapter to encourage students own active discovery This ground breaking text will be essential reading for any health science students as well as professionals in practice

Handbook of Research on Social Media Applications for the Tourism and Hospitality Sector Ramos, Célia M.Q.,Almeida, Cláudia Ribeiro de,Fernandes, Paula Odete,2019-12-27 Tourists frequently rely on social networks to provide information about a product or destination as a decision support tool to make adequate decisions in the process of planning a trip In this digital environment tourists share their travel experiences impressions emotions special moments and opinions about an assortment of tourist services like hotels restaurants airlines and car rental services all of which contribute to the online reputation of a tourist destination The Handbook of Research on Social Media Applications for the Tourism and Hospitality Sector is a fundamental reference source that provides vital theoretical frameworks and the latest innovative empirical research findings of online social media in the tourism industry While highlighting topics such as e business mobile

marketing and smart tourism this publication explores user generated content and the methods of mobile strategies This book is ideally designed for tour developers travel agents restaurateurs hotel management tour directors entrepreneurs social media analysts managers industry professionals academicians researchers and students

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