Random Dot Stereograms

Yi-Tong Zhou,Rama Chellappa

Random Dot Stereograms:

Hidden Images Bob Hankinson,1994   **Random Dot Stereograms** Andrew A. Kinsman,1993   **R.D.S.** Niklas Eén,1993   **Depth Perception in Random Dot-stereograms** Gary Louis Lebby,1982   **Visual Space Perception** Maurice Hershenson,1999 A renewed interest in the study of vision has attracted scholars from such diverse fields as neuroscience computer science mathematics physics and philosophy At the same time the development of imaging devices and popularization of stereoscopic effects has increased student interest in vision This primer provides an overview of the principles of space perception in a handbook format that should appeal to researchers as well as students Topics covered include geometrical and distal proximal relationships spatial localization stereopsis cyclopean perception stimulus inadequacy pictorial cues perceived size and shape Gibsonian psychophysics lateral motion motion in depth perceived object motion and motion detection   **Binocular Vision and Stereopsis** Ian P. Howard,Brian J. Rogers,1995 This book is a survey of knowledge about binocular vision with an emphasis on its role in the perception of a three dimensional world The primary interest is biological vision In each chapter physiological behavioral and computational approaches are reviewed in some detail discussed and interrelated The authors describe experiments required to answer specific questions and relates them to new terminologies and current theoretical schemes   *Children's Perception of Depth in Random Dot Stereograms* John Myron Dowd,1977   Digital Imaging Primer Alan Parkin,2015-09-22 Digital Imaging targets anyone with an interest in digital imaging professional or private who uses even quite modest equipment such as a PC digital camera and scanner a graphics editor such as PAINT and an inkjet printer Uniquely it is intended to fill the gap between the highly technical texts for academics with access to expensive equipment and the superficial introductions for amateurs The four part treatment spans theory technology programs and practice Theory covers integer arithmetic additive and subtractive color greyscales computational geometry and a new presentation of discrete Fourier analysis Technology considers bitmap file structures scanners digital cameras graphic editors and inkjet printers Programs develops several processing tools for use in conjunction with a standard Paint graphics editor and supplementary processing tools Practice discusses 1 bit greyscale 4 bit 8 bit and 24 bit images for the practice section Relevant QBASIC code is supplied an accompanying CD and algorithms are listed in the appendix Readers can attain a level of understanding and the practical insights to obtain optimal use and satisfaction from even the most basic digital imaging equipment   Perceiving in Depth, Volume 2: Stereoscopic Vision Ian P. Howard,Brian J. Rogers,2012-01-27 The three volume work Perceiving in Depth is a sequel to Binocular Vision and Stereopsis and to Seeing in Depth both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than

stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 2 addresses stereoscopic vision in cats and primates including humans It begins with an account of the physiology of stereoscopic mechanisms It then deals with binocular rivalry binocular summation binocular masking and the interocular transfer of visual effects such as the motion aftereffect and visual learning The geometry of the region in binocular space that creates fused images the horopter is discussed in some detail Objects outside the horopter produce images with binocular disparities that are used for stereoscopic vision Two chapters provide accounts of mechanisms that bring the images into binocular register and of stimulus tokens that are used to detect binocular disparities Another chapter discusses cyclopean effects such as cyclopean illusions cyclopean motion and binocular direction that are seen only with binocular vision Stereoacuity is the smallest depth interval that can be detected Methods of measuring stereoacuity and factors that influence it are discussed Two chapters deal with the various types of binocular disparity and the role of each type in stereoscopic vision Another chapter deals with visual effects such as figure perception motion perception and whiteness perception that are affected by the relative distances of stimuli The spatiotemporal aspects of stereoscopic vision including the Pulfrich stereomotion effect are reviewed The volume ends with an account of techniques used to create stereoscopic displays and of the applications of stereoscopy   **Perceiving in Depth, Volume 2** Ian P. Howard,Brian J. Rogers,2012-02-24 The three volume work Perceiving in Depth is a sequel to Binocular Vision and Stereopsis and to Seeing in Depth both by Ian P Howard and Brian J Rogers This work is much broader in scope than the previous books and includes mechanisms of depth perception by all senses including aural electrosensory organs and the somatosensory system Volume 1 reviews sensory coding psychophysical and analytic procedures and basic visual mechanisms Volume 2 reviews stereoscopic vision Volume 3 reviews all mechanisms of depth perception other than stereoscopic vision The three volumes are extensively illustrated and referenced and provide the most detailed review of all aspects of perceiving the three dimensional world Volume 2 addresses stereoscopic vision in cats and primates including humans It begins with an account of the physiology of stereoscopic mechanisms It then deals with binocular rivalry binocular summation binocular masking and the interocular transfer of visual effects such as the motion aftereffect and visual learning The geometry of the region in binocular space that creates fused images the horopter is discussed in some detail Objects outside the horopter produce images with binocular disparities that are used for stereoscopic vision Two chapters provide accounts of mechanisms that bring the images into binocular register and of stimulus tokens that are used to detect binocular disparities Another chapter discusses cyclopean effects such as cyclopean illusions cyclopean motion and binocular direction that are seen only with binocular vision Stereoacuity is the smallest depth interval that can be detected Methods of measuring stereoacuity and factors that influence it are discussed Two chapters deal with the various types of binocular disparity and the role of each type in stereoscopic vision Another chapter deals with visual effects such as figure perception motion perception and

whiteness perception that are affected by the relative distances of stimuli The spatiotemporal aspects of stereoscopic vision including the Pulfrich stereomotion effect are reviewed The volume ends with an account of techniques used to create stereoscopic displays and of the applications of stereoscopy **Visual Perception** Vicki Bruce,Mark A. Georgeson,Patrick R. Green,2014-08-27 This comprehensively updated and expanded revision of the successful second edition continues to provide detailed coverage of the ever growing range of research topics in vision In Part I the treatment of visual physiology has been extensively revised with an updated account of retinal processing a new section explaining the principles of spatial and temporal filtering which underlie discussions in later chapters and an up to date account of the primate visual pathway Part II contains four largely new chapters which cover recent psychophysical evidence and computational model of early vision edge detection perceptual grouping depth perception and motion perception The models discussed are extensively integrated with physiological evidence All other chapters in Parts II III and IV have also been thoroughly updated **An Introduction to 3D Computer Vision Techniques and Algorithms** Boguslaw Cyganek,J. Paul Siebert,2011-08-10 Computer vision encompasses the construction of integrated vision systems and the application of vision to problems of real world importance The process of creating 3D models is still rather difficult requiring mechanical measurement of the camera positions or manual alignment of partial 3D views of a scene However using algorithms it is possible to take a collection of stereo pair images of a scene and then automatically produce a photo realistic geometrically accurate digital 3D model This book provides a comprehensive introduction to the methods theories and algorithms of 3D computer vision Almost every theoretical issue is underpinned with practical implementation or a working algorithm using pseudo code and complete code written in C and MatLab There is the additional clarification of an accompanying website with downloadable software case studies and exercises Organised in three parts Cyganek and Siebert give a brief history of vision research and subsequently present basic low level image processing operations for image matching including a separate chapter on image matching algorithms explain scale space vision as well as space reconstruction and multiview integration demonstrate a variety of practical applications for 3D surface imaging and analysis provide concise appendices on topics such as the basics of projective geometry and tensor calculus for image processing distortion and noise in images plus image warping procedures An Introduction to 3D Computer Vision Algorithms and Techniques is a valuable reference for practitioners and programmers working in 3D computer vision image processing and analysis as well as computer visualisation It would also be of interest to advanced students and researchers in the fields of engineering computer science clinical photography robotics graphics and mathematics **Seeing, second edition** John P. Frisby,James V. Stone,2010-04-02 An accessible yet rigorous and generously illustrated exploration of the computational approach to the study of biological vision Seeing has puzzled scientists and philosophers for centuries and it continues to do so This new edition of a classic text offers an accessible but rigorous introduction to the computational approach to understanding biological visual systems The authors of Seeing taking

as their premise David Marr s statement that to understand vision by studying only neurons is like trying to understand bird flight by studying only feathers make use of Marr s three different levels of analysis in the study of vision the computational level the algorithmic level and the hardware implementation level Each chapter applies this approach to a different topic in vision by examining the problems the visual system encounters in interpreting retinal images and the constraints available to solve these problems the algorithms that can realize the solution and the implementation of these algorithms in neurons Seeing has been thoroughly updated for this edition and expanded to more than three times its original length It is designed to lead the reader through the problems of vision from the common but mistaken idea that seeing consists just of making pictures in the brain to the minutiae of how neurons collectively encode the visual features that underpin seeing Although it assumes no prior knowledge of the field some chapters present advanced material This makes it the only textbook suitable for both undergraduate and graduate students that takes a consistently computational perspective offering a firm conceptual basis for tackling the vast literature on vision It covers a wide range of topics including aftereffects the retina receptive fields object recognition brain maps Bayesian perception motion color and stereopsis MatLab code is available on the book s website which includes a simple demonstration of image convolution   Perceptual Organization Michael Kubovy,James R. Pomerantz,2017-03-31 Originally published in 1981 perceptual organization had been synonymous with Gestalt psychology and Gestalt psychology had fallen into disrepute In the heyday of Behaviorism the few cognitive psychologists of the time pursued Gestalt phenomena But in 1981 Cognitive Psychology was married to Information Processing Some would say that it was a marriage of convenience After the wedding Cognitive Psychology had come to look like a theoretically wrinkled Behaviorism very few of the mainstream topics of Cognitive Psychology made explicit contact with Gestalt phenomena In the background Cognition s first love Gestalt was pining to regain favor The cognitive psychologists desire for a phenomenological and intellectual interaction with Gestalt psychology did not manifest itself in their publications but it did surface often enough at the Psychonomic Society meeting in 1976 for them to remark upon it in one of their conversations This book then is the product of the editors curiosity about the status of ideas at the time first proposed by Gestalt psychologists For two days in November 1977 they held an exhilarating symposium that was attended by some 20 people not all of whom are represented in this volume At the end of our symposium it was agreed that they would try in contributions to this volume to convey the speculative and metatheoretical ground of their research in addition to the solid data and carefully wrought theories that are the figure of their research   *Limits in Perception* A.J. van Doorn,W.A. van de Grind,J.J Koenderink,2020-01-29 This book presents an analysis of limits in perception from the vantage point of the physicist the engineer the psychophysicist the psychologist and the theorist Limits in perception find their causal explanation at many logically and or physically different levels Some of the most fundamental bottlenecks are due to the quantum mechanical and atomistic structure of the microworld Other simple constraints are due to the material constitution of sensory organs For

instance the fact that the eye is predominantly composed of water limits both the optical quality and the available spectral window The engineer uses knowledge on such limits to design equipment that optimizes human performance in daily life Examples include room acoustics and visual displays Psychophysicists and psychologists deal with limits on a quite different logical level These limits constrain much of our perceptually guided behaviour The book includes chapters on such topics as movement perception binocular vision illusory phenomena language and perception the perception of time A few concluding chapters on fundamental limits imposed by information theoretical constraints on the coding and representation of sensed structure are included Limits in Perception will be important reading material for scientists and or engineers in the following fields perception experimental psychology sensory biology physics neuroscience human engineering artificial intelligence robotics ophthalmology audiology psychonomics and ergonomics remote sensing *Sensation and Perception* Bennett L. Schwartz,John H. Krantz,2023-09-09 Rich in examples and applications to everyday life Sensation and Perception Third Edition is a cutting edge and highly readable account of modern sensation and perception from both a cognitive and neurocognitive perspective *Conscious Mind, Resonant Brain* Stephen Grossberg,2021-05-28 How does your mind work How does your brain give rise to your mind These are questions that all of us have wondered about at some point in our lives if only because everything that we know is experienced in our minds They are also very hard questions to answer After all how can a mind understand itself How can you understand something as complex as the tool that is being used to understand it This book provides an introductory and self contained description of some of the exciting answers to these questions that modern theories of mind and brain have recently proposed Stephen Grossberg is broadly acknowledged to be the most important pioneer and current research leader who has for the past 50 years modelled how brains give rise to minds notably how neural circuits in multiple brain regions interact together to generate psychological functions This research has led to a unified understanding of how where and why our brains can consciously see hear feel and know about the world and effectively plan and act within it The work embodies revolutionary Principia of Mind that clarify how autonomous adaptive intelligence is achieved It provides mechanistic explanations of multiple mental disorders including symptoms of Alzheimer s disease autism amnesia and sleep disorders biological bases of morality and religion including why our brains are biased towards the good so that values are not purely relative perplexing aspects of the human condition including why many decisions are irrational and self defeating despite evolution s selection of adaptive behaviors and solutions to large scale problems in machine learning technology and Artificial Intelligence that provide a blueprint for autonomously intelligent algorithms and robots Because brains embody a universal developmental code unifying insights also emerge about shared laws that are found in all living cellular tissues from the most primitive to the most advanced notably how the laws governing networks of interacting cells support developmental and learning processes in all species The fundamental brain design principles of complementarity uncertainty and resonance that Grossberg has discovered also reflect laws of the physical

world with which our brains ceaselessly interact and which enable our brains to incrementally learn to understand those laws thereby enabling humans to understand the world scientifically Accessibly written and lavishly illustrated Conscious Mind Resonant Brain is the magnum opus of one of the most influential scientists of the past 50 years and will appeal to a broad readership across the sciences and humanities   Artificial Neural Networks for Computer Vision Yi-Tong Zhou,Rama Chellappa,2012-12-06 This monograph is an outgrowth of the authors recent research on the de velopment of algorithms for several low level vision problems using artificial neural networks Specific problems considered are static and motion stereo computation of optical flow and deblurring an image From a mathematical point of view these inverse problems are ill posed according to Hadamard Researchers in computer vision have taken the regularization approach to these problems where one comes up with an appropriate energy or cost function and finds a minimum Additional constraints such as smoothness integrability of surfaces and preservation of discontinuities are added to the cost function explicitly or implicitly Depending on the nature of the inver sion to be performed and the constraints the cost function could exhibit several minima Optimization of such nonconvex functions can be quite involved Although progress has been made in making techniques such as simulated annealing computationally more reasonable it is our view that one can often find satisfactory solutions using deterministic optimization algorithms   **Plasticity in Sensory Systems** Jennifer K. E. Steeves,Laurence R. Harris,2013 Plasticity is a fundamental property of neural development and learning in living organisms It also contributes to problems associated with aging and degenerative processes Understanding neural plasticity has huge implications for those seeking to recover from brain injury or sensory deprivation and regular folk vying to improve their skills and ability Centered on three themes this book explores the latest research in plasticity in sensory systems with a focus primarily on visual and auditory systems It covers a breadth of recent scientific study within the field including research on healthy systems and diseased models of sensory processing Topics include visual and visuomotor learning models of how the brain codes visual information sensory adaptations in vision and hearing as a result of partial or complete visual loss in childhood plasticity in the adult visual system and plasticity across the senses as well as new techniques in vision recovery rehabilitation and sensory substitution of other senses when one sense is lost This unique edited volume the fruit of an International Conference on Plastic Vision held at York University Toronto will provide students and scientists with an overview of the ongoing research related to sensory plasticity and perspectives on the direction of future work in the field   The Development and Clinical Application of Innovative Optical Ophthalmic Imaging Techniques Peng Xiao,Claude Boccara,Kate Grieve,Yali Jia,2022-12-06

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