

OPTIC FLOW AND BEYOND

Edited by

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Optic Flow And Beyond

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Optic Flow And Beyond:

Optic Flow and Beyond L.M. Vaina, Scott A. Beardsley, Simon K. Rushton, 2004-04-30 Optic flow provides all the information necessary to guide a walking human or a mobile robot to its target Over the past 50 years a body of research on optic flow spanning the disciplines of neurophysiology psychophysics experimental psychology brain imaging and computational modelling has accumulated Today when we survey the field we find independent lines of research have now converged and many arguments have been resolved simultaneously the underpinning assumptions of flow theory are being questioned and alternative accounts of the visual guidance of locomotion proposed At this critical juncture this volume offers a timely review of what has been learnt and pointers to where the field is going **Optic Flow and Beyond** L.M.

Vaina, Scott A. Beardsley, Simon K. Rushton, 2004-04-30 Optic flow provides all the information necessary to guide a walking human or a mobile robot to its target Over the past 50 years a body of research on optic flow spanning the disciplines of neurophysiology psychophysics experimental psychology brain imaging and computational modelling has accumulated Today when we survey the field we find independent lines of research have now converged and many arguments have been resolved simultaneously the underpinning assumptions of flow theory are being questioned and alternative accounts of the visual guidance of locomotion proposed At this critical juncture this volume offers a timely review of what has been learnt and pointers to where the field is going

Insect Sex Pheromone Research and Beyond Yukio Ishikawa, 2020-03-19 This book provides a complete overview of cutting edge research on insect sex pheromones and pheromone communication systems The coverage ranges from the chemistry biosynthesis and reception of sex pheromones to the control of odor source searching behavior and from molecules to the application of research findings to robotics The book both summarizes the progress of studies conducted using *Bombyx mori* and several groups of moths and reviews sex pheromones of some non lepidopteran insect groups of agricultural importance Attention is drawn to recent findings on elaborate neural information processing in the brain in male moths and to the importance of olfactory receptors specifically tuned to sex pheromone molecules Featuring contributions from leading experts on the topic this book will be a unique and valuable resource for researchers and students in the fields of entomology chemical ecology insect physiology and biochemistry evolution biomimetics and bioengineering In addition to researchers general insect lovers will find the book fascinating for its descriptions of the marvelous abilities of insects and the underlying mechanisms involved *Imaging Beyond the Pinhole*

Camera Kostas Daniilidis, Reinhard Klette, 2006-09-21 This book traces progress in photography since the first pinhole or camera obscura architecture The authors describe innovations such as photogrammetry and omnidirectional vision for robotic navigation The text shows how new camera architectures create a need to master related projective geometries for calibration binocular stereo static or dynamic scene understanding Written by leading researchers in the field this book also explores applications of alternative camera architectures *Beyond Artificial Intelligence* Badal Soni, Poonam

Saini, Gyanendra K. Verma, Brij B. Gupta, 2025-08-13 This book contains the proceedings of the 1st International Conference on Artificial Intelligence Computing Technologies Internet of Things and Data Analytics AICTA 2023 The theme of the conference is Artificial Intelligence and Its Applications It focuses on recent trends and innovative approaches across various domains of Computer Engineering such as cloud computing image processing and computer vision machine learning and deep learning IoT analytics and security The book introduces new ideas in artificial intelligence and its subfields including machine learning and deep neural networks This volume will be valuable for researchers and practitioners in computer engineering and related fields

Beyond the Brain Louise Barrett, 2011-04-04 A new approach to understanding animal and human cognition When a chimpanzee stockpiles rocks as weapons or when a frog sends out mating calls we might easily assume these animals know their own motivations that they use the same psychological mechanisms that we do But as *Beyond the Brain* indicates this is a dangerous assumption because animals have different evolutionary trajectories ecological niches and physical attributes How do these differences influence animal thinking and behavior Removing our human centered spectacles Louise Barrett investigates the mind and brain and offers an alternative approach for understanding animal and human cognition Drawing on examples from animal behavior comparative psychology robotics artificial life developmental psychology and cognitive science Barrett provides remarkable new insights into how animals and humans depend on their bodies and environment not just their brains to behave intelligently Barrett begins with an overview of human cognitive adaptations and how these color our views of other species brains and minds Considering when it is worth having a big brain or indeed having a brain at all she investigates exactly what brains are good at Showing that the brain's evolutionary function guides action in the world she looks at how physical structure contributes to cognitive processes and she demonstrates how these processes employ materials and resources in specific environments Arguing that thinking and behavior constitute a property of the whole organism not just the brain *Beyond the Brain* illustrates how the body brain and cognition are tied to the wider world

HCI Beyond the GUI Philip Kortum, 2008-06-13 As technology expands and evolves one dimensional graphical user interface GUI design becomes increasingly limiting and simplistic Designers must meet the challenge of developing new and creative interfaces that adapt to meet human needs and technological trends *HCI Beyond the GUI* provides designers with this know how by exploring new ways to reach users that involve all of the human senses Dr Kortum gathers contributions from leading human factors designers to present a single reference for professionals researchers and students Explores the human factors involved in the design and implementation of the nontraditional interfaces detailing design strategies testing methodologies and implementation techniques Provides an invaluable resource for practitioners who design interfaces for children gamers and users with accessibility needs Offers extensive case studies examples and design guidelines

Computer Vision Beyond the Visible Spectrum Bir Bhanu, Ioannis Pavlidis, 2006-03-30 Recently there has been a dramatic increase in the use of sensors in the non visible bands As a result

there is a need for existing computer vision methods and algorithms to be adapted for use with non visible sensors or for the development of completely new methods and systems Computer Vision Beyond the Visible Spectrum is the first book to bring together state of the art work in this area It presents new pioneering research across the electromagnetic spectrum in the military commercial and medical domains By providing a detailed examination of each of these areas it focuses on the development of state of the art algorithms and looks at how they can be used to solve existing new challenges within computer vision Essential reading for academics industrial researchers working in the area of computer vision image processing and medical imaging it will also be useful background reading for advanced undergraduate postgraduate students

The Market and Beyond Martin Fransman,1993-02-25 This book examines the Japanese success in technology through their Innovation System improving products and their foresight **Mathematica Beyond Mathematics** José Guillermo Sánchez León,2017-06-12 Although many books have been written about Mathematica very few of them cover the new functionality added to the most recent versions of the program Mathematica Beyond Mathematics The Wolfram Language in the Real World introduces the new features using real world examples based on the experience of the author as a consultant In the process you will also learn more about the Wolfram Language and how you can use it to solve a wide variety of problems The author raises questions from a wide range of topics and answers them by taking full advantage of Mathematica s latest features For example What sources of energy does the world really use How can we calculate tolerance limits in manufacturing processes Are our cities getting warmer Is the novel El Quijote written in Pi How can we find planets outside our solar system

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