

# Shape Detection in Computer Vision Using the Hough Transform

V. F. Leavys

# Shape Detection In Computer Vision Using The Hough Transform

**Mark Nixon**



## **Shape Detection In Computer Vision Using The Hough Transform:**

*Shape Detection in Computer Vision Using the Hough Transform* V.F. Leavers, 2012-12-06 Shape detection techniques are an important aspect of computer vision and are used to transform raw image data into the symbolic representations needed for object recognition and location. However, the availability and application of research data relating to shape detection has traditionally been limited by a lack of computational and mathematical skill on the part of the intended end user. As a result, progress in areas such as the automation of visual inspection techniques where shape detection could play a pivotal role has been relatively slow. In this volume, Violet Leavers, an established author and researcher in the field, examines the Hough Transform, a technique which is particularly relevant to industrial applications. By making computational recipes and advice available to the non-specialist, the book aims to popularize the technique and to provide a bridge between low-level computer vision tasks and specialist applications. In addition, *Shape Detection in Computer Vision Using the Hough Transform* assesses practical and theoretical issues which were previously only available in scientific literature in a way which is easily accessible to the non-specialist user. *Shape Detection in Computer Vision Using the Hough Transform* fills an obvious gap in the existing market. It is an important textbook which will provide postgraduate students with a thorough grounding in the field and will also be of interest to junior research staff and program designers. **Advanced Concepts for**

**Intelligent Vision Systems** Jacques Blanc-Talon, 2006-09-15 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Concepts for Intelligent Vision Systems (ACIVS 2006) held in Antwerp, Belgium, in September 2006. The 45 revised full papers and 65 revised poster papers presented were carefully reviewed and selected from around 242 submissions. The papers are organized in topical sections on noise reduction and restoration, segmentation, motion estimation and tracking, video processing and coding, camera calibration, image registration and stereo matching, biometrics and security, medical imaging, image retrieval and image understanding, as well as classification and recognition.

**Feature Extraction and Image Processing for Computer Vision** Mark Nixon, Alberto Aguado, 2019-11-17 *Feature Extraction for Image Processing and Computer Vision* is an essential guide to the implementation of image processing and computer vision techniques, with tutorial introductions and sample code in MATLAB and Python. Algorithms are presented and fully explained to enable complete understanding of the methods and techniques demonstrated. As one reviewer noted, 'The main strength of the proposed book is the link between theory and exemplar code of the algorithms.' Essential background theory is carefully explained. This text gives students and researchers in image processing and computer vision a complete introduction to classic and state-of-the-art methods in feature extraction, together with practical guidance on their implementation. The only text to concentrate on feature extraction with working implementation and worked-through mathematical derivations and algorithmic methods. A thorough overview of available feature extraction methods, including essential background theory, shape methods, texture and deep learning. Up-to-date coverage of interest point detection, feature

extraction and description and image representation including frequency domain and colour Good balance between providing a mathematical background and practical implementation Detailed and explanatory of algorithms in MATLAB and Python

**Feature Extraction & Image Processing** Mark Nixon,2008-01-08 Whilst other books cover a broad range of topics Feature Extraction and Image Processing takes one of the prime targets of applied computer vision feature extraction and uses it to provide an essential guide to the implementation of image processing and computer vision techniques Acting as both a source of reference and a student text the book explains techniques and fundamentals in a clear and concise manner and helps readers to develop working techniques with usable code provided throughout The new edition is updated throughout in line with developments in the field and is revised to focus on mathematical programming in Matlab Essential reading for engineers and students working in this cutting edge field Ideal module text and background reference for courses in image processing and computer vision *Feature Extraction and Image Processing* Mark Nixon,2013-10-22 Focusing on feature extraction while also covering issues and techniques such as image acquisition sampling theory point operations and low level feature extraction the authors have a clear and coherent approach that will appeal to a wide range of students and professionals Ideal module text for courses in artificial intelligence image processing and computer vision Essential reading for engineers and academics working in this cutting edge field Supported by free software on a companion website

*Energy Minimization Methods in Computer Vision and Pattern Recognition* Marcello Pelillo,1997-04-29 This book constitutes the refereed proceedings of the International Workshop on Energy Minimization Methods in Computer Vision and Pattern Recognition EMMCVPR 97 held in Venice Italy in May 1997 The book presents 29 revised full papers selected from a total of 62 submissions Also included are four full invited papers and a keynote paper by leading researchers The volume is organized in sections on contours and deformable models Markov random fields deterministic methods object recognition evolutionary search structural models and applications The volume is the first comprehensive documentation of the application of energy minimization techniques in the areas of computer vision and pattern recognition Computer-Aided Intelligent Recognition Techniques and Applications Dr. Muhammad Sarfraz,2005-11-01 Intelligent recognition methods have recently proven to be indispensable in a variety of modern industries including computer vision robotics medical imaging visualization and the media Furthermore they play a critical role in the traditional fields such as character recognition natural language processing and personal identification This cutting edge book draws together the latest findings of industry experts and researchers from around the globe It is a timely guide for all those require comprehensive state of the art advice on the present status and future potential of intelligent recognition technology Computer Aided Intelligent Recognition Techniques and Applications Provides the user community with systems and tools for application in a very wide range of areas including IT education security banking police postal services manufacturing mining medicine multimedia entertainment communications data visualization knowledge extraction pattern classification and virtual reality Disseminates

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Computer Analysis of Images and Patterns Gerald Sommer,Kostas Daniilidis,Josef Pauli,1997-08-27 This book constitutes the refereed proceedings of the 7th International Conference on Computer Analysis of Images and Patterns CAIP 97 held in Kiel Germany in September 1997 The volume presents 92 revised papers selected during a double blind reviewing process from a total of 150 high quality submissions The papers are organized in topical sections on pattern analysis object recognition and tracking invariants applications shape texture analysis motion calibration low level processing structure from motion stereo and correspondence segmentation and grouping mathematical morphology pose estimation and face analysis

Computer Vision and Graphics Leszek J. Chmielewski,Ryszard Kozera,Bok-Suk Shin,Konrad Wojciechowski,2014-09-02 This book constitutes the refereed proceedings of the International Conference on Computer Vision and Graphics ICCVG 2014 held in Warsaw Poland in September 2014 The 81 full papers presented were carefully reviewed and selected from various submissions They cover various important aspects of computer vision and graphics **Advanced Concepts for**

**Intelligent Vision Systems** Wilfried Philips,Dan Popescu,Paul Scheunders,2006-10-04 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Concepts for Intelligent Vision Systems ACIVS 2006 The book presents 45 revised full papers and 65 revised poster papers Topical sections include noise reduction and restoration segmentation motion estimation and tracking video processing and coding camera calibration image registration and stereo matching biometrics and security medical imaging image retrieval and image understanding and more **Machine Vision**

Jürgen Beyerer,Fernando Puente León,Christian Frese,2015-10-01 The book offers a thorough introduction to machine vision It is organized in two parts The first part covers the image acquisition which is the crucial component of most automated

visual inspection systems All important methods are described in great detail and are presented with a reasoned structure The second part deals with the modeling and processing of image signals and pays particular regard to methods which are relevant for automated visual inspection      Mathematics of Digital Images S. G. Hoggar, 2006-09-14 Compression restoration and recognition are three of the key components of digital imaging The mathematics needed to understand and carry out all these components are explained here in a style that is at once rigorous and practical with many worked examples exercises with solutions pseudocode and sample calculations on images The introduction lists fast tracks to special topics such as Principal Component Analysis and ways into and through the book which abounds with illustrations The first part describes plane geometry and pattern generating symmetries along with some on 3D rotation and reflection matrices Subsequent chapters cover vectors matrices and probability These are applied to simulation Bayesian methods Shannon's information theory compression filtering and tomography The book will be suited for advanced courses or for self study It will appeal to all those working in biomedical imaging and diagnosis computer graphics machine vision remote sensing image processing and information theory and its applications      Computer Vision E. R. Davies, 2017-11-15 Computer Vision Principles Algorithms Applications Learning previously entitled Computer and Machine Vision clearly and systematically presents the basic methodology of computer vision covering the essential elements of the theory while emphasizing algorithmic and practical design constraints This fully revised fifth edition has brought in more of the concepts and applications of computer vision making it a very comprehensive and up to date text suitable for undergraduate and graduate students researchers and R Two chapters cover Basic Classification Concepts and Probabilistic Models and the The third covers the principles of Deep Learning Networks and shows their impact on computer vision reflected in a new chapter Face Detection and Recognition A new chapter on Object Segmentation and Shape Models reflects the methodology of machine learning and gives practical demonstrations of its application In depth discussions have been included on geometric transformations the EM algorithm boosting semantic segmentation face frontalisation RNNs and other key topics Examples and applications including the location of biscuits foreign bodies faces eyes road lanes surveillance vehicles and pedestrians give the ins and outs of developing real world vision systems showing the realities of practical implementation Necessary mathematics and essential theory are made approachable by careful explanations and well illustrated examples The recent developments sections included in each chapter aim to bring students and practitioners up to date with this fast moving subject Tailored programming examples code methods illustrations tasks hints and solutions mainly involving MATLAB and C

**Computer Vision and Image Processing** Manas Kamal Bhuyan, 2019-11-05 The book familiarizes readers with fundamental concepts and issues related to computer vision and major approaches that address them The focus of the book is on image acquisition and image formation models radiometric models of image formation image formation in the camera image processing concepts concept of feature extraction and feature selection for pattern classification recognition and

advanced concepts like object classification object tracking image based rendering and image registration Intended to be a companion to a typical teaching course on computer vision the book takes a problem solving approach *New Developments in Biomedical Engineering* Domenico Campolo,2010-01-01 Biomedical Engineering is a highly interdisciplinary and well established discipline spanning across engineering medicine and biology A single definition of Biomedical Engineering is hardly unanimously accepted but it is often easier to identify what activities are included in it This volume collects works on recent advances in Biomedical Engineering and provides a bird view on a very broad field ranging from purely theoretical frameworks to clinical applications and from diagnosis to treatment *Multiphase Flow Handbook* Clayton T. Crowe,2005-09-19 Because of the importance of multiphase flows in a wide variety of industries including power petroleum and numerous processing industries an understanding of the behavior and underlying theoretical concepts of these systems is critical Contributed by a team of prominent experts led by a specialist with more than thirty years of experience the Multiphase Flow Handbook provides such an understanding and much more It covers all aspects of multiphase flows from fundamentals to numerical methods and instrumentation The book begins with an introduction to the fundamentals of particle fluid bubble interactions followed by gas liquid flows and methods for calculating system parameters It includes up to date information on practical industrial applications such as boiling and condensation fluidized beds aerosols separation systems pollution control granular and porous media flow pneumatic and slurry transport and sprays Coverage then turns to the most recent information on particle droplet fluid interactions with a chapter devoted to microgravity and microscale flows and another on basic multiphase interactions Rounding out the presentation the authors discuss numerical methods state of the art instrumentation and advanced experimental techniques Supplying up to date authoritative information on all aspects of multiphase flows along with numerous problems and examples the Multiphase Flow Handbook is the most complete reference available for understanding the flow of multiphase mixtures **Computer Vision Metrics** Scott Krig,2025-05-18 This 2nd Edition based on the successful 2016 textbook has been updated and expanded to cover 3rd generation Computer Vision and AI as it supersedes historical visual computing methods providing a comprehensive survey of essential topics and methods in Computer Vision With over 1 200 essential references as well as chapter by chapter learning assignments the book offers a valuable resource for students researchers scientists and engineers helping them dig deeper into core computer vision and foundational visual computing and neuroscience topics As before a historical survey of advances in Computer Vision is provided updated to reflect the latest methods such as Vision Transformers attention models alternative features such as Fourier neurons and Binary neurons hybrid DNN architectures self supervised and enhanced learning models Associative Multimodal Learning Continuous Learning View Synthesis intelligent Scientific Imaging and advances in training protocols Updates have also been added for 2d 3d cameras software libraries and open source resources computer vision cloud services and vision AI hardware accelerators Discussion and

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**Computer Vision Metrics** Scott Krig, 2014-06-14 Computer Vision Metrics provides an extensive survey and analysis of over 100 current and historical feature description and machine vision methods with a detailed taxonomy for local regional and global features This book provides necessary background to develop intuition about why interest point detectors and feature descriptors actually work how they are designed with observations about tuning the methods for achieving robustness and invariance targets for specific applications The survey is broader than it is deep with over 540 references provided to dig deeper The taxonomy includes search methods spectra components descriptor representation shape distance functions accuracy efficiency robustness and invariance attributes and more Rather than providing how to source code examples and shortcuts this book provides a counterpoint discussion to the many fine opencv community source code resources available for hands on practitioners



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