

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, 2012-12-18 Feature Extraction and Image Processing for Computer Vision is an essential guide to the implementation of image processing and computer vision techniques, with tutorial introductions and sample code in Matlab. 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 exemplar code of the algorithms. Fully updated with the latest developments in feature extraction, including expanded tutorials and new techniques, this new edition contains extensive new material on Haar wavelets, Viola-Jones bilateral filtering, SURF, PCA, SIFT, moving object detection and tracking, development of symmetry operators, LBP texture analysis, AdaBoost, and a new appendix on color models. Coverage of distance measures, feature detectors, wavelets, level sets, and texture tutorials has been extended.' Named a 2012 Notable Computer Book for Computing Methodologies by Computing Reviews. 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 The only currently available text to concentrate on feature extraction with working implementation and worked through derivation 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

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

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

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 information in

a plethora of disciplines for example pattern recognition AI image processing computer vision and graphics neural networks cryptography fuzzy logic databases evolutionary algorithms shape and numerical analysis Illustrates all theory with real world examples and case studies This valuable resource is essential reading for computer scientists engineers and consultants requiring up to date comprehensive guidance on the latest developments in computer aided intelligent recognition techniques and applications Its detailed practical approach will be of interest to senior undergraduate and graduate students as well as researchers and industry experts in the field of intelligent recognition *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 *Computer Vision - ACCV 2018* C. V. Jawahar,Hongdong Li,Greg Mori,Konrad Schindler,2019-05-28 The six volume set LNCS 11361 11366 constitutes the proceedings of the 14th Asian Conference on Computer Vision ACCV 2018 held in Perth Australia in December 2018 The total of 274 contributions was carefully reviewed and selected from 979 submissions during two rounds of reviewing and improvement The papers focus on motion and tracking segmentation and grouping image based modeling deep learning object recognition object recognition object detection and categorization vision and language video analysis and event recognition face and gesture analysis statistical methods and learning performance evaluation medical image analysis document analysis optimization methods RGBD and depth camera processing robotic vision applications of computer vision

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 [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

Control Engineering and Information Systems Zhijing Liu, 2015-01-19 Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems ICCEIS 2014 Yueyang Hunan China 20 22 June 2014 All major aspects of the theory and applications of control engineering and information systems are addressed including Intelligent s

Computer Vision -- ECCV 2010 Kostas Daniilidis, Petros Maragos, Nikos Paragios, 2010-09-08 The 2010 edition of the European Conference on Computer Vision was held in Heraklion Crete The call for papers attracted an absolute record of 1 174 submissions We describe here the selection of the accepted papers Thirty eight area chairs were selected coming from Europe 18 USA and Canada 16 and Asia 4 Their selection was based on the following criteria 1 Researchers who had served at least two times as Area Chairs within the past two years at major vision conferences were excluded 2 Researchers who served as Area Chairs at the 2010 Computer Vision and Pattern Recognition were also excluded exception ECCV 2012 Program Chairs 3 Minimization of overlap introduced by Area Chairs being former student and advisors 4 20% of the Area Chairs had never served before in a major conference 5 The Area Chair selection process made all possible efforts to achieve a reasonable geographic distribution between countries thematic areas and trends in computer vision Each Area Chair was assigned by the Program Chairs between 28 32 papers Based on paper content the Area Chair recommended up to seven potential reviewers per paper Such assignment was made using all reviewers in the database including the conflicting ones The Program Chairs manually entered the missing conflict domains of approximately 300 reviewers Based on the recommendation of the Area Chairs three reviewers were selected per paper with at least one being of the top three suggestions with 99

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 -- ECCV 2014 David Fleet, Tomas Pajdla, Bernt Schiele, Tinne Tuytelaars, 2014-08-14 The seven volume set comprising LNCS volumes 8689 8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision ECCV 2014 held in Zurich Switzerland in September 2014 The 363 revised papers presented were carefully reviewed and selected from 1444 submissions The papers are organized in topical sections on tracking and activity recognition recognition learning and inference structure from motion and feature matching computational photography and low level vision vision

segmentation and saliency context and 3D scenes motion and 3D scene analysis and poster sessions *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 **Template Matching Techniques in Computer Vision** Roberto Brunelli, 2009-04-29 The detection and recognition of objects in images is a key research topic in the computer vision community Within this area face recognition and interpretation has attracted increasing attention owing to the possibility of unveiling human perception mechanisms and for the development of practical biometric systems This book and the accompanying website focus on template matching a subset of object recognition techniques of wide applicability which has proved to be particularly effective for face recognition applications Using examples from face processing tasks throughout the book to illustrate more general object recognition approaches Roberto Brunelli examines the basics of digital image formation highlighting points critical to the task of template matching presents basic and advanced template matching techniques targeting grey level images shapes and point sets discusses recent pattern classification paradigms from a template matching perspective illustrates the development of a real face recognition system explores the use of advanced computer graphics techniques in the development of computer vision algorithms Template Matching Techniques in Computer Vision is primarily aimed at practitioners working on the development of systems for effective object recognition such as biometrics robot navigation multimedia retrieval and landmark detection It is also of interest to graduate students undertaking studies in these areas **Computer Vision - ECCV 2012** Andrew Fitzgibbon, Svetlana Lazebnik, Pietro Perona, Yoichi Sato, Cordelia Schmid, 2012-09-26 The seven volume set comprising LNCS volumes 7572 7578 constitutes the refereed proceedings of the 12th European Conference on Computer Vision ECCV 2012 held in Florence Italy in October 2012 The 408 revised papers presented were carefully reviewed and selected from 1437 submissions The papers are organized in topical sections on geometry 2D and 3D shapes 3D reconstruction visual recognition and classification visual features and image matching visual monitoring action and activities models optimisation learning visual tracking and image registration photometry lighting and colour and image segmentation **Learning OpenCV 4 Computer Vision with Python 3** Joseph Howse, Joe Minichino, 2020-02-20 Updated for OpenCV 4 and Python 3 this book covers the latest on depth cameras 3D tracking augmented reality and deep neural networks helping you solve real world computer vision problems with practical code Key Features Build powerful computer vision applications in concise code with OpenCV 4 and Python 3 Learn the fundamental concepts of image processing object classification and 2D and 3D tracking Train use and understand machine learning models such as Support Vector Machines SVMs and neural networks Book Description Computer vision is a

rapidly evolving science encompassing diverse applications and techniques This book will not only help those who are getting started with computer vision but also experts in the domain You ll be able to put theory into practice by building apps with OpenCV 4 and Python 3 You ll start by understanding OpenCV 4 and how to set it up with Python 3 on various platforms Next you ll learn how to perform basic operations such as reading writing manipulating and displaying still images videos and camera feeds From taking you through image processing video analysis and depth estimation and segmentation to helping you gain practice by building a GUI app this book ensures you ll have opportunities for hands on activities Next you ll tackle two popular challenges face detection and face recognition You ll also learn about object classification and machine learning concepts which will enable you to create and use object detectors and classifiers and even track objects in movies or video camera feed Later you ll develop your skills in 3D tracking and augmented reality Finally you ll cover ANNs and DNNs learning how to develop apps for recognizing handwritten digits and classifying a person s gender and age By the end of this book you ll have the skills you need to execute real world computer vision projects What you will learn Install and familiarize yourself with OpenCV 4 s Python 3 bindings Understand image processing and video analysis basics Use a depth camera to distinguish foreground and background regions Detect and identify objects and track their motion in videos Train and use your own models to match images and classify objects Detect and recognize faces and classify their gender and age Build an augmented reality application to track an image in 3D Work with machine learning models including SVMs artificial neural networks ANNs and deep neural networks DNNs Who this book is for If you are interested in learning computer vision machine learning and OpenCV in the context of practical real world applications then this book is for you This OpenCV book will also be useful for anyone getting started with computer vision as well as experts who want to stay up to date with OpenCV 4 and Python 3 Although no prior knowledge of image processing computer vision or machine learning is required familiarity with basic Python programming is a must

Evolutionary Computation Techniques: A Comparative Perspective Erik Cuevas, Valentín Osuna, Diego Oliva, 2016-12-28 This book compares the performance of various evolutionary computation EC techniques when they are faced with complex optimization problems extracted from different engineering domains Particularly focusing on recently developed algorithms it is designed so that each chapter can be read independently Several comparisons among EC techniques have been reported in the literature however they all suffer from one limitation their conclusions are based on the performance of popular evolutionary approaches over a set of synthetic functions with exact solutions and well known behaviors without considering the application context or including recent developments In each chapter a complex engineering optimization problem is posed and then a particular EC technique is presented as the best choice according to its search characteristics Lastly a set of experiments is conducted in order to compare its performance to other popular EC methods

Unveiling the Power of Verbal Art: An Mental Sojourn through **Shape Detection In Computer Vision Using The Hough Transform**

In some sort of inundated with monitors and the cacophony of instantaneous conversation, the profound energy and psychological resonance of verbal art usually fade in to obscurity, eclipsed by the continuous onslaught of sound and distractions. However, set within the lyrical pages of **Shape Detection In Computer Vision Using The Hough Transform**, a charming work of fictional splendor that impulses with fresh thoughts, lies an unforgettable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, this exciting opus instructions visitors on a mental odyssey, softly revealing the latent possible and profound affect stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is key styles, dissect their fascinating publishing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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