

MOMENT FUNCTIONS IN IMAGE ANALYSIS

Theory and Applications



**R Mukundan
K R Ramakrishnan**

World Scientific

Moment Functions In Image Analysis Theory And Applications

**Akhtar Kalam, Swagatam Das, Kalpana
Sharma**



Moment Functions In Image Analysis Theory And Applications:

Moment Functions In Image Analysis - Theory And Applications R Mukundan,K R Ramakrishnan,1998-09-02 This book is a comprehensive treatise on the theory and applications of moment functions in image analysis Moment functions are widely used in various realms of computer vision and image processing Numerous algorithms and techniques have been developed using image moments in the areas of pattern recognition object identification three dimensional object pose estimation robot sensing image coding and reconstruction This book provides a compilation of the theoretical aspects related to different types of moment functions and their applications in the above areas The book is organized into two parts The first part discusses the fundamental concepts behind important moments such as geometric moments complex moments Legendre moments Zernike moments and moment tensors Most of the commonly used properties of moment functions and the mathematical framework for the derivation of basic theorems and results are discussed in detail This includes the derivation of moment invariants implementation aspects of moments transform properties and fast methods for computing the moment functions for both binary and gray level images The second part presents the key application areas of moments such as pattern recognition object identification image based pose estimation edge detection clustering segmentation coding and reconstruction Important algorithms in each of these areas are discussed A comprehensive list of bibliographical references on image moments is also included

[Moment Functions in Image Analysis](#) R. Mukundan,K. R. Ramakrishnan,1998 This book is a comprehensive treatise on the theory and applications of moment functions in image analysis Moment functions are widely used in various realms of computer vision and image processing Numerous algorithms and techniques have been developed using image moments in the areas of pattern recognition object identification three dimensional object pose estimation robot sensing image coding and reconstruction This book provides a compilation of the theoretical aspects related to different types of moment functions and their applications in the above areas The book is organized into two parts The first part discusses the fundamental concepts behind important moments such as geometric moments complex moments Legendre moments Zernike moments and moment tensors Most of the commonly used properties of moment functions and the mathematical framework for the derivation of basic theorems and results are discussed in detail This includes the derivation of moment invariants implementation aspects of moments transform properties and fast methods for computing the moment functions for both binary and gray level images The second part presents the key application areas of moments such as pattern recognition object identification image based pose estimation edge detection clustering segmentation coding and reconstruction Important algorithms in each of these areas are discussed A comprehensive list of bibliographical references on image moments is also included

Advanced Techniques in Multimedia Watermarking: Image, Video and Audio Applications Al-Haj, Ali Mohammad,2010-05-31 This book introduces readers to state of art research in multimedia watermarking in the different disciplines of watermarking addressing the different aspects of advanced watermarking

research modeling and theoretical analysis advanced embedding and extraction techniques software and hardware implementations and performance evaluations of watermarking systems Provided by publisher

2D and 3D Image Analysis by Moments Jan Flusser,Tomas Suk,Barbara Zitova,2016-11-16 Presents recent significant and rapid development in the field of 2D and 3D image analysis 2D and 3D Image Analysis by Moments is a unique compendium of moment based image analysis which includes traditional methods and also reflects the latest development of the field The book presents a survey of 2D and 3D moment invariants with respect to similarity and affine spatial transformations and to image blurring and smoothing by various filters The book comprehensively describes the mathematical background and theorems about the invariants but a large part is also devoted to practical usage of moments Applications from various fields of computer vision remote sensing medical imaging image retrieval watermarking and forensic analysis are demonstrated Attention is also paid to efficient algorithms of moment computation Key features Presents a systematic overview of moment based features used in 2D and 3D image analysis Demonstrates invariant properties of moments with respect to various spatial and intensity transformations Reviews and compares several orthogonal polynomials and respective moments Describes efficient numerical algorithms for moment computation It is a classroom ready textbook with a self contained introduction to classifier design The accompanying website contains around 300 lecture slides Matlab codes complete lists of the invariants test images and other supplementary material 2D and 3D Image Analysis by Moments is ideal for mathematicians computer scientists engineers software developers and Ph D students involved in image analysis and recognition Due to the addition of two introductory chapters on classifier design the book may also serve as a self contained textbook for graduate university courses on object recognition

Digital Rights Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2012-10-31 This reference is a comprehensive collection of recent case studies theories research on digital rights management and its place in the world today

Feature Extraction and Image Processing for Computer Vision Mark Nixon,Alberto S. Aguado,2012-09-25 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 **Computer Analysis of Images and Patterns** Nicolai Petkov, 2003-08-14 This book constitutes the refereed proceedings of the 10th International Conference on Computer Analysis of Images and Patterns CAIP 2003 held in Groningen The Netherlands in August 2003 The 94 revised papers presented were carefully reviewed and selected from 160 submissions The papers are organized in topical sections on analysis and understanding video analysis segmentation shape classification face recognition interpolation and spatial transformations and filtering *Computer Analysis of Images and Patterns* Modesto Castrillón-Santana, Carlos M. Travieso-González, Oscar Deniz Suarez, David Freire-Obregón, Daniel Hernández-Sosa, Javier Lorenzo-Navarro, Oliverio J. Santana, 2025-09-16 The volume set LNCS 15621 15622 constitutes the refereed proceedings of the 21st International Conference on Computer Analysis of Images and Patterns CAIP 2025 which took place in Las Palmas de Gran Canaria Spain during September 22 25 2025 The 65 full papers were carefully reviewed and selected from 109 submissions The proceedings focus on Facial and Video Recognition Image Segmentation Object Detection and Applications 3D Vision and Reconstruction Biomedical Imaging and Diagnostics Model Robustness and Generalization Multimodal and Vision Language Models Robotics Interaction and Intelligent Systems Emerging Methods and Vision Applications Breast Imaging Andrew D.A. Maidment, Predrag R. Bakic, Sara Gavenonis, 2012-07-13 This book constitutes the refereed proceedings of the 11th International Workshop on Digital Mammography IWDM 2012 held in Philadelphia PA USA in July 2012 The 42 revised full papers and 58 revised poster papers presented were carefully reviewed and selected from numerous initial submissions The papers are organized in topical sections on contrast enhancing imaging digital mammography methods tomosynthesis system design tomosynthesis image quality and dose clinical tomosynthesis functional breast imaging breast computed tomography computer aided diagnosis and image processing tomosynthesis reconstruction and breast density Computer Analysis of Images and Patterns Wladyslaw Skarbek, 2003-06-30 Computer analysis of images and patterns is a scientific field of longstanding tradition with roots in the early years of the computer era when electronic brains inspired scientists Moreover the design of vision machines is a part of humanity's dream of the artificial person I remember the 2nd CAIP held in Wismar in 1987 Lectures were read in German English and Russian and proceedings were also only partially written in English The conference took place under a different political system and proved that ideas are independent of political walls A few years later the Berlin Wall collapsed and Professors Sommer and Klette proposed a new formula for the CAIP let it be held in Central and Eastern Europe every second year There was a sense of solidarity with scientific communities in those countries that found themselves in a state of transition to a new economy A well implemented idea resulted in a chain of successful events in Dresden 1991 Budapest 1993 Prague 1995 Kiel 1997 and Ljubljana 1999 This year the conference was welcomed at Warsaw There are three invited lectures and about 90 contributions written by more than 200 authors from 27 countries

Besides Poland 60 authors the largest representation comes from France 23 followed by England 16 Czech Republic 11 Spain 10 Germany 9 and Belarus 9 Regrettably in spite of free registration fees and free accommodation for authors from former Soviet Union countries we received only one accepted paper from Russia

Computational Intelligence in Digital Forensics: Forensic Investigation and Applications Azah Kamilah Muda, Yun-Huoy Choo, Ajith Abraham, Sargur N. Srihari, 2014-04-01

Computational Intelligence techniques have been widely explored in various domains including forensics Analysis in forensic encompasses the study of pattern analysis that answer the question of interest in security medical legal genetic studies and etc However forensic analysis is usually performed through experiments in lab which is expensive both in cost and time Therefore this book seeks to explore the progress and advancement of computational intelligence technique in different focus areas of forensic studies This aims to build stronger connection between computer scientists and forensic field experts This book *Computational Intelligence in Digital Forensics Forensic Investigation and Applications* is the first volume in the Intelligent Systems Reference Library series The book presents original research results and innovative applications of computational intelligence in digital forensics This edited volume contains seventeen chapters and presents the latest state of the art advancement of Computational Intelligence in Digital Forensics in both theoretical and application papers related to novel discovery in intelligent forensics The chapters are further organized into three sections 1 Introduction 2 Forensic Discovery and Investigation which discusses the computational intelligence technologies employed in Digital Forensic and 3 Intelligent Forensic Science Applications which encompasses the applications of computational intelligence in Digital Forensic such as human anthropology human biometrics human by products drugs and electronic devices

Orthogonal Image Moments for Human-Centric Visual Pattern Recognition S. M. Mahbubur Rahman, Tamanna Howlader, Dimitrios Hatzinakos, 2019-10-11

Instead of focusing on the mathematical properties of moments this book is a compendium of research that demonstrates the effectiveness of orthogonal moment based features in face recognition expression recognition fingerprint recognition and iris recognition The usefulness of moments and their invariants in pattern recognition is well known What is less well known is how orthogonal moments may be applied to specific problems in human centric visual pattern recognition Unlike previous books this work highlights the fundamental issues involved in moment based pattern recognition from the selection of discriminative features in a high dimensional setting to addressing the question of how to classify a large number of patterns based on small training samples In addition to offering new concepts that illustrate the use of statistical methods in addressing some of these issues the book presents recent results and provides guidance on implementing the methods Accordingly it will be of interest to researchers and graduate students working in the broad areas of computer vision and visual pattern recognition

Pattern Recognition Konstantinos Koutroumbas, Sergios Theodoridis, 2008-11-26

This book considers classical and current theory and practice of supervised unsupervised and semi supervised pattern recognition to build a complete background for professionals and students of engineering The authors

leading experts in the field of pattern recognition have provided an up to date self contained volume encapsulating this wide spectrum of information The very latest methods are incorporated in this edition semi supervised learning combining clustering algorithms and relevance feedback Thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques Many more diagrams included now in two color to provide greater insight through visual presentation Matlab code of the most common methods are given at the end of each chapter More Matlab code is available together with an accompanying manual via this site Latest hot topics included to further the reference value of the text including non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering combining clustering algorithms An accompanying book with Matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples including real life data sets in imaging and audio recognition The companion book will be available separately or at a special packaged price ISBN 9780123744869 Thoroughly developed to include many more worked examples to give greater understanding of the various methods and techniques Many more diagrams included now in two color to provide greater insight through visual presentation Matlab code of the most common methods are given at the end of each chapter An accompanying book with Matlab code of the most common methods and algorithms in the book together with a descriptive summary and solved examples and including real life data sets in imaging and audio recognition The companion book is available separately or at a special packaged price Book ISBN 9780123744869 Package ISBN 9780123744913 Latest hot topics included to further the reference value of the text including non linear dimensionality reduction techniques relevance feedback semi supervised learning spectral clustering combining clustering algorithms Solutions manual powerpoint slides and additional resources are available to faculty using the text for their course Register at www.textbooks.elsevier.com and search on Theodoridis to access resources for instructor

Optical Remote Sensing of Ocean Hydrodynamics Victor Raizer, 2019-03-04 Optical Remote Sensing is one of the main technologies used in sea surface monitoring Optical Remote Sensing of Ocean Hydrodynamics investigates and demonstrates capabilities of optical remote sensing technology for enhanced observations and detection of ocean environments It provides extensive knowledge of physical principles and capabilities of optical observations of the oceans at high spatial resolution 1 4m and on the observations of surface wave hydrodynamic processes It also describes the implementation of spectral statistical and fusion algorithms for analyses of multispectral optical databases and establishes physics based criteria for detection of complex wave phenomena and hydrodynamic disturbances including assessment and management of optical databases This book explains the physical principles of high resolution optical imagery of the ocean surface discusses for the first time the capabilities of observing hydrodynamic processes and events and emphasizes the integration of optical measurements and enhanced data analysis It also covers both the assessment and the interpretation of dynamic multispectral optical databases and includes applications for advanced studies and nonacoustic

detection This book is an invaluable resource for researches industry professionals engineers and students working on cross disciplinary problems in ocean hydrodynamics optical remote sensing of the ocean and sea surface remote sensing Readers in the fields of geosciences and remote sensing applied physics oceanography satellite observation technology and optical engineering will learn the theory and practice of optical interactions with the ocean *Emerging Topics in Computer Vision and Its Applications* C. H. Chen, 2012 This book gives a comprehensive overview of the most advanced theories methodologies and applications in computer vision Particularly it gives an extensive coverage of 3D and robotic vision problems Example chapters featured are Fourier methods for 3D surface modeling and analysis use of constraints for calibration free 3D Euclidean reconstruction novel photogeometric methods for capturing static and dynamic objects performance evaluation of robot localization methods in outdoor terrains integrating 3D vision with force tactile sensors tracking via in floor sensing self calibration of camera networks etc Some unique applications of computer vision in marine fishery biomedical issues driver assistance are also highlighted *Linear Ray and Wave Optics in Phase Space* Amalia Torre, 2005-11-11 Ray wave and quantum concepts are central to diverse and seemingly incompatible models of light Each model particularizes a specific manifestation of light and then corresponds to adequate physical assumptions and formal approximations whose domains of applicability are well established Accordingly each model comprises its own set of geometric and dynamic postulates with the pertinent mathematical means At a basic level the book is a complete introduction to the Wigner optics which bridges between ray and wave optics offering the optical phase space as the ambience and the Wigner function based technique as the mathematical machinery to accommodate between the two opposite extremes of light representation the localized ray of geometrical optics and the unlocalized wave function of wave optics At a parallel level the analogies with other branches of both classical and quantum physics like classical and quantum mechanics quantum optics signal theory as well as magnetic optics are evidenced by pertinent comments and or rigorous mathematics So the Lie algebra and group methods are introduced and explained through the elementary optical systems within both the ray and wave optics contexts the former being related to the symplectic group and the latter to the metaplectic group In a like manner the Wigner function is introduced by following the original issue to individualize a phase space representation of quantum mechanics which is mirrored by the issue to individualize a local frequency spectrum within the signal theory context The basic analogy with the optics of charged particles inherently underlying the ray optics picture in phase space is also evidenced within the wave optics picture in the Wigner phase space amalgamation of a great deal of contributions having witnessed the phase space picture of optics over the past 30 years introduces abstract concepts through concrete systems hosts of figures and logical diagrams to favour intuition and to introduce mathematics emphasis on the interrelations with quantum optics signal theory and magnetic optics feeds a feeling for genuine issues in higher mathematics and theoretical physics Advances in Electronics, Communication and Computing Akhtar Kalam, Swagatam

Das, Kalpana Sharma, 2017-10-27 This book is a compilation of research work in the interdisciplinary areas of electronics communication and computing This book is specifically targeted at students research scholars and academicians The book covers the different approaches and techniques for specific applications such as particle swarm optimization Otsu's function and harmony search optimization algorithm triple gate silicon on insulator SOI MOSFET micro Raman and Fourier Transform Infrared Spectroscopy FTIR analysis high k dielectric gate oxide spectrum sensing in cognitive radio microstrip antenna Ground penetrating radar GPR with conducting surfaces and digital image forgery detection The contents of the book will be useful to academic and professional researchers alike **Advances in Visual Computing** Richard Boyle, Bahram

Parvin, Darko Koracin, Nikos Paragios, Syeda-Mahmood Tanveer, Tao Ju, Zicheng Liu, Sabine Coquillart, Carolina Cruz-Neira, Torsten Möller, Tom Malzbender, 2007-11-22 The two volume set LNCS 4841 and LNCS 4842 constitutes the refereed proceedings of the Third International Symposium on Visual Computing ISVC 2007 held in Lake Tahoe NV USA in November 2007 The 77 revised full papers and 42 poster papers presented together with 32 full and five poster papers of six special tracks were carefully reviewed and selected The papers cover the four main areas of visual computing vision graphics visualization and virtual reality *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 *Neural Information Processing. Theory and Algorithms* Kevin K.W.

Wong, B. Sumudu U. Mendis, Abdesselam Bouzerdoun, 2010-11-18 The two volume set LNCS 6443 and LNCS 6444 constitutes the proceedings of the 17th International Conference on Neural Information Processing ICONIP 2010 held in Sydney Australia in November 2010 The 146 regular session papers presented were carefully reviewed and selected from 470 submissions The papers of part I are organized in topical sections on neurodynamics computational neuroscience and cognitive science data and text processing adaptive algorithms bio inspired algorithms and hierarchical methods The second volume is structured in topical sections on brain computer interface kernel methods computational advance in bioinformatics self organizing maps and their applications machine learning applications to image analysis and applications

Moment Functions In Image Analysis Theory And Applications Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Moment Functions In Image Analysis Theory And Applications**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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