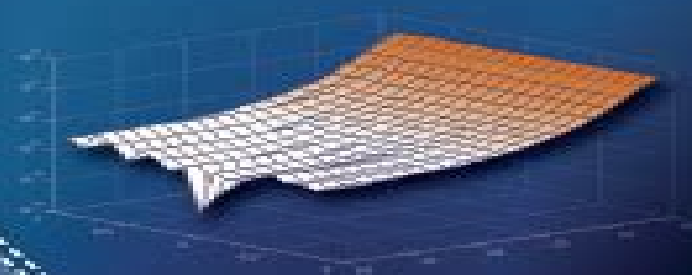
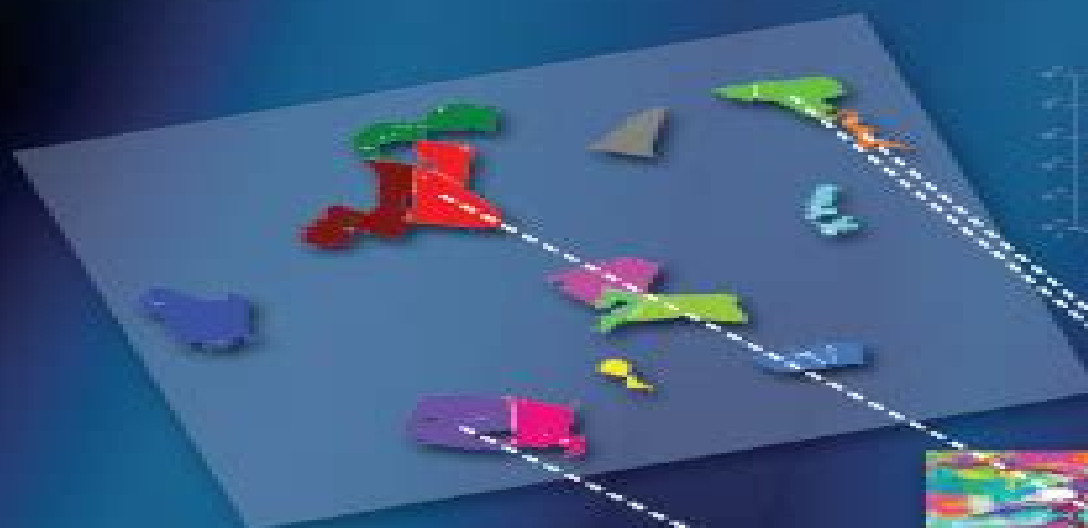
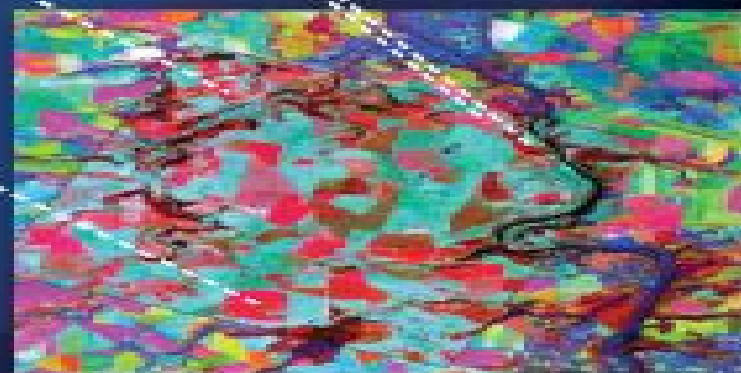



# Moments and Moment Invariants in Pattern Recognition



Jan Flusser  
Tomáš Suk  
Barbara Zitová



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# Moments And Moment Invariants In Pattern Recognition

**Gabriella Sanniti Di Baja, Carlo  
Arcelli, Luigi P Cordella**



## **Moments And Moment Invariants In Pattern Recognition:**

**Moments and Moment Invariants in Pattern Recognition** Jan Flusser, Barbara Zitova, Tomas Suk, 2009-11-04

Moments as projections of an image's intensity onto a proper polynomial basis can be applied to many different aspects of image processing. These include invariant pattern recognition, image normalization, image registration, focus/defocus measurement, and watermarking. This book presents a survey of both recent and traditional image analysis and pattern recognition methods based on image moments and offers new concepts of invariants to linear filtering and implicit invariants. In addition to the theory, attention is paid to efficient algorithms for moment computation in a discrete domain and to computational aspects of orthogonal moments. The authors also illustrate the theory through practical examples demonstrating moment invariants in real applications across computer vision, remote sensing, and medical imaging.

**Key features:**

- Presents a systematic review of the basic definitions and properties of moments covering geometric moments and complex moments.
- Considers invariants to traditional transforms: translation, rotation, scaling, and affine transform from a new point of view which offers new possibilities of designing optimal sets of invariants.
- Reviews and extends a recent field of invariants with respect to convolution blurring.
- Introduces implicit moment invariants as a tool for recognizing elastically deformed objects.
- Compares various classes of orthogonal moments: Legendre, Zernike, Fourier, Mellin, Chebyshev, among others, and demonstrates their application to image reconstruction from moments.
- Offers comprehensive advice on the construction of various invariants, illustrated with practical examples.
- Includes an accompanying website providing efficient numerical algorithms for moment computation and for constructing invariants of various kinds, with about 250 slides suitable for a graduate university course.

Moments and Moment Invariants in Pattern Recognition Jan Flusser, Barbara Zitova, Tomas Suk, 2009-12-14

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invariants Reviews and extends a recent field of invariants with respect to convolution blurring Introduces implicit moment invariants as a tool for recognizing elastically deformed objects Compares various classes of orthogonal moments Legendre Zernike Fourier Mellin Chebyshev among others and demonstrates their application to image reconstruction from moments Offers comprehensive advice on the construction of various invariants illustrated with practical examples Includes an accompanying website providing efficient numerical algorithms for moment computation and for constructing invariants of various kinds with about 250 slides suitable for a graduate university course Moments and Moment Invariants in Pattern Recognition is ideal for researchers and engineers involved in pattern recognition in medical imaging remote sensing robotics and computer vision Post graduate students in image processing and pattern recognition will also find the book of interest

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

2D and 3D Image Analysis by Moments Jan Flusser, Tomas Suk, Barbara Zitova, 2016-12-19 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 **Handbook of Image**

**Processing and Computer Vision** Arcangelo Distanto, Cosimo Distanto, 2020-05-28 Across three volumes the Handbook of Image Processing and Computer Vision presents a comprehensive review of the full range of topics that comprise the field of computer vision from the acquisition of signals and formation of images to learning techniques for scene understanding The authoritative insights presented within cover all aspects of the sensory subsystem required by an intelligent system to perceive the environment and act autonomously Volume 1 From Energy to Image examines the formation properties and enhancement of a digital image Topics and features Describes the fundamental processes in the field of artificial vision that enable the formation of digital images from light energy Covers light propagation color perception optical systems and the analog to digital conversion of the signal Discusses the information recorded in a digital image and the image processing algorithms that can improve the visual qualities of the image Reviews boundary extraction algorithms key linear and geometric transformations and techniques for image restoration Presents a selection of different image segmentation algorithms and of widely used algorithms for the automatic detection of points of interest Examines important algorithms for object recognition texture analysis 3D reconstruction motion analysis and camera calibration Provides an introduction to four significant types of neural network namely RBF SOM Hopfield and deep neural networks This all encompassing survey offers a complete reference for all students researchers and practitioners involved in developing intelligent machine vision systems The work is also an invaluable resource for professionals within the IT software and electronics industries involved in machine vision imaging and artificial intelligence Dr Cosimo Distanto is a Research Scientist in Computer Vision and Pattern Recognition in the Institute of Applied Sciences and Intelligent Systems ISAI at the Italian National Research Council CNR Dr Arcangelo Distanto is a researcher and the former Director of the Institute of Intelligent Systems for Automation ISSIA at the CNR His research interests are in the fields of Computer Vision Pattern Recognition Machine Learning and Neural Computation **Proceedings of the Mediterranean Conference on Information & Communication Technologies**

**2015** Ahmed El Oualkadi, Fethi Choubani, Ali El Moussati, 2016-04-05 This volume presents the first part of the proceedings of the Mediterranean Conference on Information Communication Technologies MedICT 2015 which was held at Saidia Morocco during 7-9 May 2015 MedICT provides an excellent international forum to the researchers and practitioners from both

academia as well as industry to meet and share cutting edge development The conference has also a special focus on enabling technologies for societal challenges and seeks to address multidisciplinary challenges in Information Communication Technologies such as health demographic change wellbeing security and sustainability issues The proceedings publish high quality papers which are closely related to the various theories as well as emerging and practical applications of particular interest to the ICT community This first volume provides a compact yet broad view of recent developments in devices technologies and processing and covers recent research areas in the field including Microwave Devices and Printed Antennas Advances in Optical and RF Devices and Applications Signal Processing and Information Theory Wireless and Optical Technologies and Techniques Computer Vision Optimization and Modeling in Wireless Communication Systems Modeling Identification and Biomedical Signal Processing Photovoltaic Cell Systems RF Devices and Antennas for Wireless Applications RFID Ad Hoc and Networks Issues

**Recent Advances in Computer Vision** Mahmoud Hassaballah, Khalid M. Hosny, 2018-12-14 This book presents a collection of high quality research by leading experts in computer vision and its applications Each of the 16 chapters can be read independently and discusses the principles of a specific topic reviews up to date techniques presents outcomes and highlights the challenges and future directions As such the book explores the latest trends in fashion creative processes facial features detection visual odometry transfer learning face recognition feature description plankton and scene classification video face alignment video searching and object segmentation It is intended for postgraduate students researchers scholars and developers who are interested in computer vision and connected research disciplines and is also suitable for senior undergraduate students who are taking advanced courses in related topics However it is also provides a valuable reference resource for practitioners from industry who want to keep abreast of recent developments in this dynamic exciting and profitable research field

*Intelligent Systems Design and Applications* Ajith Abraham, Pranab Kr. Muhuri, Azah Kamilah Muda, Niketa Gandhi, 2018-03-21 This book highlights recent research on intelligent systems design and applications It presents 100 selected papers from the 17th International Conference on Intelligent Systems Design and Applications ISDA 2017 which was held in Delhi India from December 14 to 16 2017 The ISDA is a premier conference in the field of Computational Intelligence and brings together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry and the real world Including contributions by authors from over 30 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering

Image Processing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-05-31 Advancements in digital technology continue to expand the image science field through the tools and techniques utilized to process two dimensional images and videos Image Processing Concepts Methodologies Tools and Applications presents a collection of research on this multidisciplinary field and the operation of multi dimensional signals with systems that range from simple digital circuits to computers This

reference source is essential for researchers academics and students in the computer science computer vision and electrical engineering fields

**Quaternionic Integral Transforms** Eckhard Hitzer, 2023-08-08 This book presents a machine generated literature overview of quaternion integral transforms from select papers published by Springer Nature which have been organized and introduced by the book's editor Each chapter presents summaries of predefined themes and provides the reader with a basis for further exploration of the topic As one of the experimental projects initiated by Springer Nature for AI book content generation this book shows the latest developments in the field It will be a useful reference for students and researchers who are interested in exploring the latest developments in quaternion integral transforms

**Digital Filters and Signal Processing** Fausto Pedro García Márquez, Noor Zaman, 2013-01-16 Digital filters together with signal processing are being employed in the new technologies and information systems and are implemented in different areas and applications Digital filters and signal processing are used with no costs and they can be adapted to different cases with great flexibility and reliability This book presents advanced developments in digital filters and signal process methods covering different cases studies They present the main essence of the subject with the principal approaches to the most recent mathematical models that are being employed worldwide

**Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT** Valentina E. Balas, G. R. Sinha, Basant Agarwal, Tarun Kumar Sharma, Pankaj Dadheech, Mehul Mahrishi, 2022-05-25 This book constitutes the refereed proceedings of the 5th International Conference on Emerging Technologies in Computer Engineering ICETCE 2021 held in Jaipur India in February 2022 The 40 revised full papers along with 20 short papers presented were carefully reviewed and selected from 235 submissions The papers are organized according to the following topical headings cognitive computing Internet of Things IoT machine learning and applications soft computing data science and big data analytics blockchain and cyber security

**Intelligent Computing Theories and Application** De-Shuang Huang, Vitoantonio Bevilacqua, Prashan Premaratne, Phalguni Gupta, 2018-08-08 This two volume set LNCS 10954 and LNCS 10955 constitutes in conjunction with the volume LNAI 10956 the refereed proceedings of the 14th International Conference on Intelligent Computing ICIC 2018 held in Wuhan China in August 2018 The 275 full papers and 72 short papers of the three proceedings volumes were carefully reviewed and selected from 632 submissions The papers are organized in topical sections such as Neural Networks Pattern Recognition Image Processing Intelligent Computing in Robotics Intelligent Control and Automation Intelligent Data Analysis and Prediction Fuzzy Theory and Algorithms Supervised Learning Unsupervised Learning Kernel Methods and Supporting Vector Machines Knowledge Discovery and Data Mining Natural Language Processing and Computational Linguistics Gene Expression Array Analysis Systems Biology Computational Genomics Computational Proteomics Gene Regulation Modeling and Analysis Protein Protein Interaction Prediction Next Gen Sequencing and Metagenomics Structure Prediction and Folding Evolutionary Optimization for Scheduling High Throughput Biomedical Data Integration and Mining Machine Learning Algorithms and Applications

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 on Biomedical Engineering BioMed 2006 was held in December 2006 at the Palace of the Golden Horses Kuala Lumpur  
 Malaysia The papers presented at BioMed 2006 and published here cover such topics as Artificial Intelligence Biological  
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**Modeling, Analysis, and Visualization of Anisotropy** Thomas Schultz, Evren Özarslan, Ingrid Hotz, 2017-10-14 This book focuses on the modeling processing and visualization of anisotropy irrespective of the context in which it emerges using state of the art mathematical tools As such it differs substantially from conventional reference works which are centered on a particular application It covers the following topics i the geometric structure of tensors ii statistical methods for tensor field processing iii challenges in mapping neural connectivity and structural mechanics iv processing of uncertainty and v visualizing higher order representations In addition to original research contributions it provides insightful reviews This multidisciplinary book is the sixth in a series that aims to foster scientific exchange between communities employing tensors and other higher order representations of directionally dependent data A significant number of the chapters were co authored by the participants of the workshop titled Multidisciplinary Approaches to Multivalued Data Modeling Visualization Analysis which was held in Dagstuhl Germany in April 2016 It offers a valuable resource for those working in the field of multi directional data vital inspirations for the development of new models and essential analysis and visualization techniques thus furthering the state of the art in studies involving anisotropy

**Advances In Visual Form Analysis: Proceedings Of The 3rd International Workshop On Visual Form** Gabriella Sanniti Di Baja, Carlo Arcelli, Luigi P Cordella, 1997-10-31 This volume contains papers presented at the Third International Workshop on Visual Form It covers the most important topics of current interest in the field presenting an updated collection of results achieved by leading academic and industrial research groups from several countries The book contains invited lectures and research papers dealing with theoretical and applicative aspects of shape perception representation decomposition description and recognition as well as related topics

*Advances in Multimedia Information Processing - PCM 2004* Kiyoharu Aizawa, Yuichi Nakamura, Shin'ichi Satoh, 2004-10-29 Welcome to the proceedings of the 5th Pacific Rim Conference on Multimedia PCM 2004 held in Tokyo Waterfront City Japan November 30 December 3 2004 Following the success of the preceding conferences PCM 2000 in Sydney PCM 2001 in Beijing PCM 2002 in Hsinchu and PCM 2003 in Singapore the 5th PCM brought together the researchers developers practitioners and educators in the field of multimedia Theoretical breakthroughs and practical systems were presented at this conference thanks to the support of the IEEE Circuits and Systems Society IEEE Region 10 and IEEE Japan Council ACM SIGMM IEICE and ITE PCM2004 featured a comprehensive program including keynote talks regular paper presentations posters demos and special sessions We received 385 papers and the number of submissions was the largest among recent PCMs Among such a large number of submissions we accepted only 94 oral presentations and 176 poster presentations Seven special sessions were also organized by world leading researchers We kindly acknowledge the great support provided in the reviewing of

submissions by the program committee members as well as the additional reviewers who generously gave their time. The many useful comments provided by the reviewing process must have been very valuable for the authors' work. This conference would never have happened without the help of many people. We greatly appreciate the support of our strong organizing committee chairs and advisory chairs. Among the chairs, special thanks go to Dr. Ichiro Ide and Dr. Takeshi Naemura, who smoothly handled publication of the proceedings with Springer. Dr. Kazuya Kodama did a fabulous job as our Web master.

Parallel and Distributed Processing Jose Rolim, 2003-06-26. This volume contains the proceedings from the workshops held in conjunction with the IEEE International Parallel and Distributed Processing Symposium (IPDPS) 2000 on 15 May 2000 in Cancun, Mexico. The workshops provide a forum for bringing together researchers, practitioners, and designers from various backgrounds to discuss the state of the art in parallelism. They focus on different aspects of parallelism: from runtime systems to formal methods, from optics to irregular problems, from biology to networks of personal computers, from embedded systems to programming environments. The following workshops are represented in this volume: Workshop on Personal Computer Based Networks of Workstations, Workshop on Advances in Parallel and Distributed Computational Models, Workshop on Parallel and Distributed Computing in Image, Video, and Multimedia, Workshop on High Level Parallel Programming Models and Supportive Environment, Workshop on High Performance Data Mining, Workshop on Solving Irregularly Structured Problems in Parallel, Workshop on Java for Parallel and Distributed Computing, Workshop on Biologically Inspired Solutions to Parallel Processing Problems, Workshop on Parallel and Distributed Real Time Systems, Workshop on Embedded HPC Systems and Applications, Reconfigurable Architectures Workshop, Workshop on Formal Methods for Parallel Programming, Workshop on Optics and Computer Science, Workshop on Runtime Systems for Parallel Programming, Workshop on Fault Tolerant Parallel and Distributed Systems. All papers published in the workshops proceedings were selected by the program committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, and consistency with the themes of the workshops.

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