

Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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Reiner Lenz

Group Theoretical Methods
in Image Processing



Springer-Verlag
Berlin Heidelberg GmbH

Group Theoretical Methods In Image Processing

Kenichi Kanatani



Group Theoretical Methods In Image Processing:

Group Theoretical Methods in Image Processing Reiner Lenz, 2014-03-12 In this volume the author gives an introduction to the theory of group representations and their applications in image science The main feature of the presentation is a systematic treatment of the invariance principle in image processing and pattern recognition with the help of group theoretical methods The invariance properties of a problem often largely define the solution to the problem Invariance principles are well known in theoretical physics but their use in image processing is only a few years old The reader will find that group theory provides a unifying framework for many problems in image science The volume is based on graduate level lectures given by the author and the book is intended for students and researchers interested in theoretical aspects of computer vision

Group Theoretical Methods in Image Processing Reiner Lenz, 1990-03-07 In this volume the author gives an introduction to the theory of group representations and their applications in image science The main feature of the presentation is a systematic treatment of the invariance principle in image processing and pattern recognition with the help of group theoretical methods The invariance properties of a problem often largely define the solution to the problem Invariance principles are well known in theoretical physics but their use in image processing is only a few years old The reader will find that group theory provides a unifying framework for many problems in image science The volume is based on graduate level lectures given by the author and the book is intended for students and researchers interested in theoretical aspects of computer vision

Group-Theoretical Methods in Image Understanding Ken-ichi Kanatani, 2012-12-06 Image understanding is an attempt to extract knowledge about a 3D scene from 2D images The recent development of computers has made it possible to automate a wide range of systems and operations not only in the industry military and special environments space sea atomic plants etc but also in daily life As we now try to build ever more intelligent systems the need for visual control has been strongly recognized and the interest in image understanding has grown rapidly Already there exists a vast body of literature ranging from general philosophical discourses to processing techniques Compared with other works however this book may be unique in that its central focus is on mathematical principles Lie groups and group representation theory in particular In the study of the relationship between the 3D scene and the 2D image geometry naturally plays a central role Today so many branches are interwoven in geometry that we cannot truly regard it as a single subject Nevertheless as Felix Klein declared in his Erlangen Program the central principle of geometry is group theory because geometrical concepts are abstractions of properties that are invariant with respect to some group of transformations In this text we specifically focus on two groups of transformations One is 2D rotations of the image coordinate system around the image origin Such coordinate rotations are indeed irrelevant when we look for intrinsic image properties

Group Theoretical Methods and Their Applications E. Stiefel, A. Fässler, 2012-12-06 X system \LaTeX I wish to thank her for the beautiful work and the numerous discussions on the contents of this book I am indebted to Peter Fassler

Neu Technikum Buchs Switzerland for drafting the figures to my students Kurt Rothermann and Stefan Strahl for computer enhancing and labeling the graphics to Pascal Felder and Markus Wittwer for a simulation program that generated the figures in the stochastics sections My thanks go to my new colleague at work Daniel Neuenschwander for the inspiring discussions related to the section in stochastics and for reading the manuscript to it I am also grateful to Dacfe Dzong for reading the whole manuscript Thanks go especially to Professor Valter Gander of ETH Zurich who at the finishing stage and as an expert of JEX generously invested numerous hours to assist us in solving software as well as hardware problems thanks go also to Martin Muller Ingenieurschule Biel who made the final layout of this book on the NeXT computer Thanks are also due to Helmut Kopka of the Max Planck Institute for solving software problems and to Professor Burchard Kaup of the University of Fribourg Switzerland for adding some useful software also to Birkhauser Boston Inc for the pleasant co operation Finally let me be reminiscent of Professor E Stiefel deceased 1978 with whom I had many interesting discussions and true co operation when writing the book in German

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Advanced Color Image Processing and Analysis Christine Fernandez-Maloigne, 2012-07-11 This volume does much more than survey modern advanced color processing Starting with a historical perspective on ways we have classified color it sets out the latest numerical techniques for analyzing and processing colors the leading edge in our search to accurately record and print what we see The human eye perceives only a fraction of available light wavelengths yet we live in a multicolor world of myriad shining hues Colors rich in metaphorical associations make us purple with rage or green with envy and cause us to see red Defining colors has been the work of centuries culminating in today's complex mathematical coding that nonetheless remains a work in progress only recently have we possessed the computing capacity to process the

algebraic matrices that reproduce color more accurately With chapters on dihedral color and image spectrometers this book provides technicians and researchers with the knowledge they need to grasp the intricacies of today's color imaging

Modern Group Theoretical Methods in Physics J. Bertrand, M. Flato, J.-P. Gazeau, M. Irac-Astaud, Daniel Sternheimer, 2013-06-29 This book contains the proceedings of a meeting that brought together friends and colleagues of Guy Rideau at the Universit Denis Diderot Paris France in January 1995 It contains original results as well as review papers covering important domains of mathematical physics such as modern statistical mechanics field theory and quantum groups The emphasis is on geometrical approaches Several papers are devoted to the study of symmetry groups including applications to nonlinear differential equations and deformation of structures in particular deformation quantization and quantum groups The richness of the field of mathematical physics is demonstrated with topics ranging from pure mathematics to up to date applications such as imaging and neuronal models Audience Researchers in mathematical physics

Groups and Computation II Larry Finkelstein, William M. Kantor, Consists of papers presented at the workshop on Groups and Computation held at DIMACS *Theory & Applications of Image Analysis* P. Johansen, S. Olsen, 1992 This book contains 31 papers carefully selected from among those presented at the 7th Scandinavian Conference on Image Analysis

The authors have extended their papers to give a more in depth discussion of the theory or of the experimental validation of the method they have proposed The topics covered are current and wide ranging and include both 2D and 3D vision and low to high level vision **Computer Vision - ECCV 2004** Tomas Pajdla, Jiri Matas, 2004-05-12 Welcome to the proceedings of the 8th European Conference on Computer vision Following a very successful ECCV 2002 the response to our call for papers was almost equally strong 555 papers were submitted We accepted 41 papers for oral and 149 papers for poster presentation

Several innovations were introduced into the review process First the number of program committee members was increased to reduce their review load We managed to assign to program committee members no more than 12 papers Second we adopted a paper ranking system Program committee members were asked to rank all the papers assigned to them even those that were reviewed by additional reviewers Third we allowed authors to respond to the reviews consolidated in a discussion involving the area chair and the reviewers Fourth thereports thereviews andtheresponsesweremadeavailabletotheauthorsas well as to the program committee members Our aim was to provide the authors with maximal feedback and to let the program committee members know how authors reacted to their reviews and how their reviews were or were not reflected in the final decision Finally we reduced the length of reviewed papers from 15 to 12 pages

The preparation of ECCV 2004 went smoothly thanks to the efforts of the organizing committee the area chairs the program committee and the reviewers We are indebted to Anders Heyden Mads Nielsen and Henrik J Nielsen for passing on ECCV traditions and to Dominique Asselineau from ENST TSI who kindly provided his GestRFIA conference software We thank Jan Olof Eklundh and Andrew Zisserman for encouraging us to organize ECCV 2004 in Prague Stepwise Refinement of Distributed Systems

Jaco W. de Bakker, Willem-Paul de Roever, Grzegorz Rozenberg, 1990-04-25 The stepwise refinement method postulates a system construction route that starts with a high level specification goes through a number of provably correct development steps and ends with an executable program The contributions to this volume survey the state of the art in this extremely active research area The world's leading specialists in concurrent program specification verification and the theory of their refinement present latest research results and surveys of the fields State based algebraic temporal logic oriented and category theory oriented approaches are presented Special attention is paid to the relationship between compositionality and refinement for distributed programs Surveys are given of results on refinement in partial order based approaches to concurrency A unified treatment is given of the assumption commitment paradigm in compositional concurrent program specification and verification and the extension of these to liveness properties Latest results are presented on specifying and proving concurrent data bases correct and deriving network protocols from their specifications CAAP '90 Andre

Arnold, 1990-04-25 This volume contains the proceedings of the Fifteenth Colloquium on Trees in Algebra and Programming The papers selected present new research results and cover the following topics Logical algebraic and combinatorial properties of discrete structures strings trees graphs etc including the theory of formal languages considered as that of sets of discrete structures and the theory of rewriting systems over these objects Application of discrete structures in computer science including syntax and semantics of programming languages operational semantics logic programming algorithms and data structures complexity of algorithms and implementation aspects proof techniques for nonnumerical algorithms formal specifications and visualization of trees and graphs **Expert Systems in Engineering** Georg Gottlob, Wolfgang

Nejdl, 1990-09-12 The goal of the International Workshop on Expert Systems in Engineering is to stimulate the flow of information between researchers working on theoretical and applied research topics in this area It puts special emphasis on new technologies relevant to industrial engineering expert systems such as model based diagnosis qualitative reasoning planning and design and to the conditions in which they operate in real time with database support The workshop is especially relevant for engineering environments like CIM computer integrated manufacturing and process automation

SIL - a Simulation Language Niels Houbak, 1990-04-25 *Shape in Picture* Ying-Lie O, Alexander Toet, David Foster, Henk J.A.M. Heijmans, Peter Meer, 2013-04-17 The fields of image analysis computer vision and artificial intelligence all make use of descriptions of shape in grey level images Most existing algorithms for the automatic recognition and classification of particular shapes have been developed for specific purposes with the result that these methods are often restricted in their application The use of advanced and theoretically well founded mathematical methods should lead to the construction of robust shape descriptors having more general application Shape description can be regarded as a meeting point of vision research mathematics computing science and the application fields of image analysis computer vision and artificial intelligence The NATO Advanced Research Workshop Shape in Picture was organised with a twofold objective first

it should provide all participants with an overview of relevant developments in these different disciplines second it should stimulate researchers to exchange original results and ideas across the boundaries of these disciplines This book comprises a widely drawn selection of papers presented at the workshop and many contributions have been revised to reflect further progress in the field The focus of this collection is on mathematical approaches to the construction of shape descriptions from grey level images The book is divided into five parts each devoted to a different discipline Each part contains papers that have tutorial sections these are intended to assist the reader in becoming acquainted with the variety of approaches to the problem

Advanced Information Systems Engineering Bo Steinholtz,Lars Bergman,Arne Sølvsberg,1990-04-25 The Nordic Conference on Advanced Information Systems Engineering CAiSE is an annual international conference for users developers and researchers of information systems technology and methodology A distinctive characteristic of the CAiSE conference series is the objective to appeal to advanced practitioners as well as to researchers and to promote communication between the two groups In this second CAiSE conference the program was divided into two types of sessions that were not run in parallel Technical Paper sessions with formally reviewed technical papers and Practice and Experience sessions with invited speakers and panel discussions The proceedings include the formally reviewed technical papers and abstracts of the invited presentations The technical papers present important international mainly European work in Information Systems Engineering within such areas as conceptual modelling prototyping requirements engineering design support software process modelling tool design and tool experiences The abstracts of invited speakers presentations give an indication of current best industrial practice

Scale Space Methods in Computer Vision Lewis D. Griffin,Martin Lillholm,2007-10-06 The refereed proceedings of the 4th International Conference on Scale Space Methods in Computer Vision Scale Space 2003 held at Isle of Skye UK in June 2003 The 56 revised full papers presented were carefully reviewed and selected from 101 submissions The book offers topical sections on deep structure representations scale space mathematics equivalences implementing scale spaces minimal approaches evolution equations local structure image models morphological scale spaces temporal scale spaces shape and motion and stereo

Linear Prediction Theory Peter Strobach,2012-12-06 Lnear prediction theory and the related algorithms have matured to the point where they now form an integral part of many real world adaptive systems When it is necessary to extract information from a random process we are frequently faced with the problem of analyzing and solving special systems of linear equations In the general case these systems are overdetermined and may be characterized by additional properties such as update and shift invariance properties Usually one employs exact or approximate least squares methods to solve the resulting class of linear equations Mainly during the last decade researchers in various fields have contributed techniques and nomenclature for this type of least squares problem This body of methods now constitutes what we call the theory of linear prediction The immense interest that it has aroused clearly emerges from recent advances in processor technology which provide the means to

implement linear prediction algorithms and to operate them in real time The practical effect is the occurrence of a new class of high performance adaptive systems for control communications and system identification applications This monograph presumes a background in discrete time digital signal processing including Z transforms and a basic knowledge of discrete time random processes One of the difficulties I have encountered while writing this book is that many engineers and computer scientists lack knowledge of fundamental mathematics and geometry

Computer Vision, Imaging and Computer Graphics: Theory and Applications AlpeshKumar Ranchordas,Joao Madeiras Pereira,Hélder J. Araújo,Joao Tavares,2010-09-09 This book includes extended versions of the selected papers from VISIGRAPP 2009 the International Joint Conference on Computer Vision Imaging and Computer Graphics Theory and Applications which was held in Lisbon Portugal during February 5 8 2009 and organized by the Institute for Systems and Technologies of Information Control and Communication INSTICC VISIGRAPP comprises three component conferences namely the International Conference on Computer Vision Theory and Applications VISAPP the International Conference on Computer Graphics Theory and Applications GRAPP and the International Conference on Imaging Theory and Applications IMAGAPP VISIGRAPP received a total of 422 paper submissions from more than 50 countries From these and after a rigorous double blind evaluation method 72 papers were published as full papers These figures show that this conference is now an established venue for researchers in the broad fields of computer vision computer graphics and image analysis From the full papers 25 were selected for inclusion in this book The selection process was based on the scores assigned by the Program Committee reviewers as well as the Session Chairs After selection the papers were further revised and extended by the authors Our gratitude goes to all contributors and referees without whom this book would not have been possible

Clifford Analysis and Its Applications F. Brackx,J.S.R. Chisholm,V. Soucek,2012-12-06 In its traditional form Clifford analysis provides the function theory for solutions of the Dirac equation From the beginning however the theory was used and applied to problems in other fields of mathematics numerical analysis and mathematical physics recently the theory has enlarged its scope considerably by incorporating geometrical methods from global analysis on manifolds and methods from representation theory New interesting branches of the theory are based on conformally invariant first order systems other than the Dirac equation or systems that are invariant with respect to a group other than the conformal group This book represents an up to date review of Clifford analysis in its present form its applications and directions for future research Readership Mathematicians and theoretical physicists interested in Clifford analysis itself or in its applications to other fields

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