

# **Lecture Notes in Computer Science**

**1681**

**David A. Forsyth   Joseph L. Mundy  
Vito Di Gesù   Roberto Cipolla (Eds.)**

## **Shape, Contour and Grouping in Computer Vision**



**Springer**

# Shape Contour And Grouping In Computer Vision

**David A. Forsyth, Joseph L. Mundy, Vito  
di Gesu, Roberto Cipolla**



## **Shape Contour And Grouping In Computer Vision:**

**Shape, Contour and Grouping in Computer Vision** David A. Forsyth, Joseph L. Mundy, Vito di Gesu, Roberto Cipolla, 1999-11-03 Computer vision has been successful in several important applications recently Vision techniques can now be used to build very good models of buildings from pictures quickly and easily to overlay operation planning data on a neurosurgeon's view of a patient and to recognise some of the gestures a user makes to a computer Object recognition remains a very difficult problem however The key questions to understand in recognition seem to be 1 how objects should be represented and 2 how to manage the line of reasoning that stretches from image data to object identity An important part of the process of recognition perhaps almost all of it involves assembling bits of image information into helpful groups There is a wide variety of possible criteria by which these groups could be established a set of edge points that has a symmetry could be one useful group others might be a collection of pixels shaded in a particular way or a set of pixels with coherent colour or texture Discussing this process of grouping requires a detailed understanding of the relationship between what is seen in the image and what is actually out there in the world

**Shape, Contour and Grouping in Computer Vision** David A. Forsyth, Joseph L. Mundy, Vito di Gesu, Roberto Cipolla, 2003-07-31 Computer vision has been successful in several important applications recently Vision techniques can now be used to build very good models of buildings from pictures quickly and easily to overlay operation planning data on a neurosurgeon's view of a patient and to recognise some of the gestures a user makes to a computer Object recognition remains a very difficult problem however The key questions to understand in recognition seem to be 1 how objects should be represented and 2 how to manage the line of reasoning that stretches from image data to object identity An important part of the process of recognition perhaps almost all of it involves assembling bits of image information into helpful groups There is a wide variety of possible criteria by which these groups could be established a set of edge points that has a symmetry could be one useful group others might be a collection of pixels shaded in a particular way or a set of pixels with coherent colour or texture Discussing this process of grouping requires a detailed understanding of the relationship between what is seen in the image and what is actually out there in the world

**Shape Perception in Human and Computer Vision** Sven J. Dickinson, Zygmunt Pizlo, 2013-06-29 This comprehensive and authoritative text reference presents a unique multidisciplinary perspective on Shape Perception in Human and Computer Vision Rather than focusing purely on the state of the art the book provides viewpoints from world class researchers reflecting broadly on the issues that have shaped the field Drawing upon many years of experience each contributor discusses the trends followed and the progress made in addition to identifying the major challenges that still lie ahead Topics and features examines each topic from a range of viewpoints rather than promoting a specific paradigm discusses topics on contours shape hierarchies shape grammars shape priors and 3D shape inference reviews issues relating to surfaces invariants parts multiple views learning simplicity shape constancy and shape illusions addresses concepts from the

historically separate disciplines of computer vision and human vision using the same language and methods

### **Computational Symmetry in Computer Vision and Computer Graphics** Yanxi Liu, Hagit Hel-Or, Craig S.

Kaplan, 2010 In the arts and sciences as well as in our daily lives symmetry has made a profound and lasting impact Likewise a computational treatment of symmetry and group theory the ultimate mathematical formalization of symmetry has the potential to play an important role in computational sciences Though the term Computational Symmetry was formally defined a decade ago by the first author referring to algorithmic treatment of symmetries seeking symmetry from digital data has been attempted for over four decades Computational symmetry on real world data turns out to be challenging enough that after decades of effort a fully automated symmetry savvy system remains elusive for real world applications The recent resurging interests in computational symmetry for computer vision and computer graphics applications have shown promising results Recognizing the fundamental relevance and potential power that computational symmetry affords we offer this survey to the computer vision and computer graphics communities This survey provides a succinct summary of the relevant mathematical theory a historic perspective of some important symmetry related ideas a partial yet timely report on the state of the arts symmetry detection algorithms along with its first quantitative benchmark a diverse set of real world applications suggestions for future directions and a comprehensive reference list

*Computer Vision -- ECCV 2006* Aleš Leonardis, Horst Bischof, Axel Pinz, 2006-07-25 The four volume set comprising LNCS volumes 3951 3952 3953 3954 constitutes the refereed proceedings of the 9th European Conference on Computer Vision ECCV 2006 held in Graz Austria in May 2006 The 192 revised papers presented were carefully reviewed and selected from a total of 811 papers submitted The four books cover the entire range of current issues in computer vision The papers are organized in topical sections on recognition statistical models and visual learning 3D reconstruction and multi view geometry energy minimization tracking and motion segmentation shape from X visual tracking face detection and recognition illumination and reflectance modeling and low level vision segmentation and grouping

*Computer Vision - ECCV 2002* Anders Heyden, Gunnar Sparr, Mads Nielsen, Peters Johansen, 2003-08-02 Premiering in 1990 in Antibes France the European Conference on Computer Vision ECCV has been held biennially at venues all around Europe These conferences have been very successful making ECCV a major event to the computer vision community ECCV 2002 was the seventh in the series The privilege of organizing it was shared by three universities The IT University of Copenhagen the University of Copenhagen and Lund University with the conference venue in Copenhagen These universities lie geographically close in the vivid Oresund region which lies partly in Denmark and partly in Sweden with the newly built bridge opened summer 2000 crossing the sound that formerly divided the countries We are very happy to report that this year's conference attracted more papers than ever before with around 600 submissions Still together with the conference board we decided to keep the tradition of holding ECCV as a single track conference Each paper was anonymously refereed by three different reviewers For the first time for ECCV

a system with area chairs was used These met with the program chairs in Lund for two days in February 2002 to select what became 45 oral presentations and 181 posters Also at this meeting the selection was made without knowledge of the authors identity

**Computer Vision - ECCV 2008** David Forsyth, Philip Torr, Andrew Zisserman, 2008-10-07 The four volume set comprising LNCS volumes 5302 5303 5304 5305 constitutes the refereed proceedings of the 10th European Conference on Computer Vision ECCV 2008 held in Marseille France in October 2008 The 243 revised papers presented were carefully reviewed and selected from a total of 871 papers submitted The four books cover the entire range of current issues in computer vision The papers are organized in topical sections on recognition stereo people and face recognition object tracking matching learning and features MRFs segmentation computational photography and active reconstruction

Structural, Syntactic, and Statistical Pattern Recognition Andrea Torsello, Luca Rossi, Marcello Pelillo, Battista Biggio, Antonio Robles-Kelly, 2021-04-09 This book constitutes the proceedings of the Joint IAPR International Workshop on Structural Syntactic and Statistical Pattern Recognition S SSPr 2020 held in Padua Italy in January 2021 The 35 papers presented in this volume were carefully reviewed and selected from 81 submissions The accepted papers cover the major topics of current interest in pattern recognition including classification and clustering deep learning structural matching and graph theoretic methods and multimedia analysis and understanding

*Computer Vision -- ACCV 2012* Kyoung Mu Lee, Yasuyuki Matsushita, James M. Rehg, Zhanyi Hu, 2013-03-27 The four volume set LNCS 7724 7727 constitutes the thoroughly refereed post conference proceedings of the 11th Asian Conference on Computer Vision ACCV 2012 held in Daejeon Korea in November 2012 The total of 226 contributions presented in these volumes was carefully reviewed and selected from 869 submissions The papers are organized in topical sections on object detection learning and matching object recognition feature representation and recognition segmentation grouping and classification image representation image and video retrieval and medical image analysis face and gesture analysis and recognition optical flow and tracking motion tracking and computational photography video analysis and action recognition shape reconstruction and optimization shape from X and photometry applications of computer vision low level vision and applications of computer vision

The Oxford Handbook of Perceptual Organization Johan Wagemans, 2015 Perceptual organization comprises a wide range of processes such as perceptual grouping figure ground organization filling in completion and perceptual switching The Oxford Handbook of Perceptual Organization provides a broad and extensive review of the current literature written in an accessible form for scholars and students

*Computer Vision -- ECCV 2010* Kostas Daniilidis, Petros Maragos, Nikos Paragios, 2010-08-30 The six volume set comprising LNCS volumes 6311 until 6313 constitutes the refereed proceedings of the 11th European Conference on Computer Vision ECCV 2010 held in Heraklion Crete Greece in September 2010 The 325 revised papers presented were carefully reviewed and selected from 1174 submissions The papers are organized in topical sections on object and scene recognition segmentation and grouping face gesture biometrics motion and tracking statistical

models and visual learning matching registration alignment computational imaging multi view geometry image features video and event characterization shape representation and recognition stereo reflectance illumination color medical image analysis

Computer Vision - ACCV 2010 Ron Kimmel, Reinhard Klette, Akihiro Sugimoto, 2011-02-28 The four volume set LNCS 6492 6495 constitutes the thoroughly refereed post proceedings of the 10th Asian Conference on Computer Vision ACCV 2009 held in Queenstown New Zealand in November 2010 All together the four volumes present 206 revised papers selected from a total of 739 Submissions All current issues in computer vision are addressed ranging from algorithms that attempt to automatically understand the content of images optical methods coupled with computational techniques that enhance and improve images and capturing and analyzing the world's geometry while preparing the higher level image and shape understanding Novel geometry techniques statistical learning methods and modern algebraic procedures are dealt with as well

Groupware: Design, Implementation, and Use Jörg M. Haake, Jose A. Pino, 2002-08-14 Welcome to the 8th International Workshop on Groupware CRIWG 2002 The previous workshops took place in Lisbon Portugal 1995 Puerto Varas Chile 1996 El Escorial Spain 1997 Bzios Brazil 1998 Cancun Mexico 1999 Madeira Portugal 2000 and Darmstadt Germany 2001 CRIWG workshops follow a simple recipe for success good papers a small number of participants extensive time for lively and constructive discussions and a high level of cooperation both within and between paper sessions CRIWG 2002 continued this tradition CRIWG 2002 attracted 36 submissions from 13 countries nine of them outside Ibero America Each of the 36 articles submitted was reviewed by at least three members of an internationally renowned Program Committee This year we used a double blind reviewing process i.e. the reviewers did not know who the authors of the papers were In addition the reviewers were chosen based on their expertise and we also ensured that they came from countries and institutions not related to those of the paper's authors This reviewer assignment worked remarkably well as indicated by the high average confidence value the reviewers gave their own reviews This means that papers were usually reviewed by experts in the paper's topic As a consequence reviews were usually quite extensive and contained many suggestions for improvements I would like to thank all the members of the Program Committee for their hard work which I am sure contributed to improving the quality of the final articles

**Computer Vision in Control Systems-3** Margarita N. Favorskaya, Lakhmi C. Jain, 2017-10-25 The research book is a continuation of the authors previous works which are focused on recent advances in computer vision methodologies and technical solutions using conventional and intelligent paradigms The book gathers selected contributions addressing aerial and satellite image processing and related fields Topics covered include novel tensor and wave models a new comparative morphology scheme warping compensation in video stabilization image deblurring based on physical processes of blur impacts and a rapid and robust core structural verification algorithm for feature extraction in images and videos among others All chapters focus on practical implementations Given the tremendous interest among researchers in the development and applications of computer vision paradigms in the field of business engineering

medicine security and aviation this book offers a timely guide      Advances in Visual Computing George Bebis, Richard Boyle, Bahram Parvin, Darko Koracin, Ronald Chung, Hammoud, Muhammad Hussain, Kar-Han Tan, Roger Crawfis, Daniel Thalmann, David Kao, Lisa Avila, 2010-11-05 The three volume set LNCS 6453 LNCS 6454 and LNCS 6455 constitutes the refereed proceedings of the 6th International Symposium on Visual Computing ISVC 2010 held in Las Vegas NV USA in November December 2010 The 93 revised full papers and 73 poster papers presented together with 44 full and 6 poster papers of 7 special tracks were carefully reviewed and selected from more than 300 submissions The papers of part I LNCS 6453 are organized in computational bioimaging computer graphics behavior detection and modeling low level color image processing feature extraction and matching visualization motion and tracking unconstrained biometrics advances and trends 3D mapping modeling and surface reconstruction and virtual reality Part II LNCS 6454 comprises topics such as calibration pose estimation and reconstruction segmentation stereo registration medical imaging low cost virtual reality expanding horizons best practices in teaching visual computing applications and video analysis and event recognition Part III LNCS 6455 mainly contains papers of the poster session and concludes with contributions addressing visualization as well as motion and tracking      **Handbook of Applied Algorithms** Amiya Nayak, Ivan Stojmenovic, 2007-11-09 Discover the benefits of applying algorithms to solve scientific engineering and practical problems Providing a combination of theory algorithms and simulations Handbook of Applied Algorithms presents an all encompassing treatment of applying algorithms and discrete mathematics to practical problems in hot application areas such as computational biology computational chemistry wireless networks and computer vision In eighteen self contained chapters this timely book explores Localized algorithms that can be used in topology control for wireless ad hoc or sensor networks Bioinformatics algorithms for analyzing data Clustering algorithms and identification of association rules in data mining Applications of combinatorial algorithms and graph theory in chemistry and molecular biology Optimizing the frequency planning of a GSM network using evolutionary algorithms Algorithmic solutions and advances achieved through game theory Complete with exercises for readers to measure their comprehension of the material presented Handbook of Applied Algorithms is a much needed resource for researchers practitioners and students within computer science life science and engineering Amiya Nayak PhD has over seventeen years of industrial experience and is Full Professor at the School of Information Technology and Engineering at the University of Ottawa Canada He is on the editorial board of several journals Dr Nayak s research interests are in the areas of fault tolerance distributed systems algorithms and mobile ad hoc networks Ivan Stojmenovic PhD is Professor at the University of Ottawa Canada www site uottawa ca ivan and Chair Professor of Applied Computing at the University of Birmingham United Kingdom Dr Stojmenovic received the Royal Society Wolfson Research Merit Award His current research interests are mostly in the design and analysis of algorithms for wireless ad hoc and sensor networks

**Computer Vision** Richard Szeliski, 2022-01-03 Computer Vision Algorithms and Applications explores the variety of

techniques used to analyze and interpret images It also describes challenging real world applications where vision is being successfully used both in specialized applications such as image search and autonomous navigation as well as for fun consumer level tasks that students can apply to their own personal photos and videos More than just a source of recipes this exceptionally authoritative and comprehensive textbook reference takes a scientific approach to the formulation of computer vision problems These problems are then analyzed using the latest classical and deep learning models and solved using rigorous engineering principles Topics and features Structured to support active curricula and project oriented courses with tips in the Introduction for using the book in a variety of customized courses Incorporates totally new material on deep learning and applications such as mobile computational photography autonomous navigation and augmented reality Presents exercises at the end of each chapter with a heavy emphasis on testing algorithms and containing numerous suggestions for small mid term projects Includes 1 500 new citations and 200 new figures that cover the tremendous developments from the last decade Provides additional material and more detailed mathematical topics in the Appendices which cover linear algebra numerical techniques estimation theory datasets and software Suitable for an upper level undergraduate or graduate level course in computer science or engineering this textbook focuses on basic techniques that work under real world conditions and encourages students to push their creative boundaries Its design and exposition also make it eminently suitable as a unique reference to the fundamental techniques and current research literature in computer vision

14th International Machine Vision and Image Processing Conference Marie-Louise O'Connell,2020-05-15 Established in 1997 the International Machine Vision and Image Processing IMVIP conferences bring together theoreticians practitioners industrialists and academics from the numerous related disciplines involved in the processing and analysis of image based information These events provide a platform for communication and exchange between participants whereby cutting edge research and advances within the field can be communicated discussed and information exchanged IMVIP events are hosted annually by different universities on the island of Ireland These proceedings reflect the manuscripts selected for oral presentation at the 14th instalment of the series hosted by the University of Limerick Ireland in 2010 in association with the Irish Pattern Recognition and Classification Society IPRCS a member organisation of the International Association of Pattern Recognition IAPR

Computer Vision Christopher W. Tyler,2011-01-24 Computer Vision is the first book to take a full approach to the challenging issue of veridical 3D object representation It introduces mathematical and conceptual advances that offer an unprecedented framework for analyzing the complex scene structure of the world Leading theorists cover full 3D scene reconstruction instead of the simplistic 2D planar algorithms employed in the past They explore cutting edge research on computational algorithms for scene analysis and present an integrated complementary treatment of neural behavioral mathematical and computational approaches The text includes numerous graphics of complex processes with many in color

**Handbook of Cognition** Koen Lamberts,Robert L. Goldstone,2005 The Handbook of Cognition provides a definitive



synthesis of the most up to date and advanced work in cognitive psychology in a single volume The editors have gathered together a team of world leading researchers in specialist areas of the field both traditional and hot new areas to present a benchmark in terms of theoretical insight and advances in methodology of the discipline This book contains a thorough overview of the most significant and current research in cognitive psychology that will serve this academic community like no other volume

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