

STATISTICAL OPTIMIZATION FOR GEOMETRIC COMPUTATION: THEORY AND PRACTICE

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Statistical Optimization For Geometric Computation Theory And Practice

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Statistical Optimization For Geometric Computation Theory And Practice:

Statistical optimization for geometric computation Kenichi Kanatani, 2005 **Statistical Optimization for Geometric Computation** Kenichi Kanatani, 2005-07-26 This text for graduate students discusses the mathematical foundations of statistical inference for building three dimensional models from image and sensor data that contain noise a task involving autonomous robots guided by video cameras and sensors The text employs a theoretical accuracy for the optimization procedure which maximizes the reliability of estimations based on noise data The numerous mathematical prerequisites for developing the theories are explained systematically in separate chapters These methods range from linear algebra optimization and geometry to a detailed statistical theory of geometric patterns fitting estimates and model selection In addition examples drawn from both synthetic and real data demonstrate the insufficiencies of conventional procedures and the improvements in accuracy that result from the use of optimal methods **Statistical Optimization for Geometric Computation: Theory and Practice** Ken'ichi Kanatani, 1996-03-14 This book discusses mathematical foundations of statistical inference for building a 3 D model of the environment from image and sensor data that contain noise a central task for autonomous robots guided by video cameras and sensors A theoretical accuracy bound is derived for the optimization procedure for maximizing the reliability of the estimation based on noisy data and practical computational schemes that attain that bound are derived Many synthetic and real data examples are given to demonstrate that conventional methods are not optimal and how accuracy improves if truly optimal methods are employed Institutions to benefit from this book include University departments related to computer science information processing image processing robotics and mechatronics governmental research organizations for computer related advanced technology and corporate laboratories of computer and electronic industries Vision Algorithms: Theory and Practice Bill Triggs, Andrew Zisserman, Richard Szeliski, 2000-09-06 This book constitutes the thoroughly refereed post workshop proceedings of the International Workshop on Vision Algorithms held in Corfu Greece in September 1999 in conjunction with ICCV 99 The 15 revised full papers presented were carefully reviewed and selected from 65 submissions each paper is complemented by a brief transcription of the discussion that followed its presentation Also included are two invited contributions and two expert reviews as well as a panel discussion The volume spans the whole range of algorithms for geometric vision The authors and volume editors succeeded in providing added value beyond a mere collection of papers and made the volume a state of the art survey of their field *Statistical Methods in Video Processing* Dorin Comaniciu, Kenichi Kanatani, Rudolf Mester, David Suter, 2004-12-06 The 2nd International Workshop on Statistical Methods in Video Processing SMVP 2004 was held in Prague Czech Republic as an associated workshop of ECCV 2004 the 8th European Conference on Computer Vision A total of 30 papers were submitted to the workshop Of these 17 papers were accepted for presentation and included in these proceedings following a double blind review process The workshop had 42 registered participants The focus of the meeting was on recent progress in the

application of advanced statistical methods to solve computer vision tasks The one day scientific program covered areas of high interest in vision research such as dense reconstruction of 3D scenes multibody motion segmentation 3D shape inference errors in variables estimation probabilistic tracking information fusion optical flow computation learning for nonstationary video data novelty detection in dynamic backgrounds background modeling grouping using feature uncertainty and crowd segmentation from video We wish to thank the authors of all submitted papers for their interest in the workshop We also wish to thank the members of our program committee and the external reviewers for their commitment of time and effort in providing valuable recommendations for each submission We are thankful to Vaclav Hlavac the General Chair of ECCV 2004 and to Radim Sára for the local organization of the workshop and registration management We hope you will find these proceedings both inspiring and of high scientific quality

Handbook of Pattern Recognition and Computer Vision Chi-hau Chen, 2010 Both pattern recognition and computer vision have experienced rapid progress in the last twenty five years This book provides the latest advances on pattern recognition and computer vision along with their many applications It features articles written by renowned leaders in the field while topics are presented in readable form to a wide range of readers The book is divided into five parts basic methods in pattern recognition basic methods in computer vision and image processing recognition applications life science and human identification and systems and technology There are eight new chapters on the latest developments in life sciences using pattern recognition as well as two new chapters on pattern recognition in remote sensing

Computer Vision - ECCV 2002 Anders Heyden, Gunnar Sparr, Mads Nielsen, Peter 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 Öresund 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 final selection 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

Ellipse Fitting for Computer Vision Kenichi Kanatani, Yasuyuki Sugaya, Yasushi Kanazawa, 2022-05-31 Because circular objects are projected to ellipses in images ellipse fitting is a first step for 3D analysis of circular objects in computer vision applications For this reason the study of ellipse

fitting began as soon as computers came into use for image analysis in the 1970s but it is only recently that optimal computation techniques based on the statistical properties of noise were established These include renormalization 1993 which was then improved as FNS 2000 and HEIV 2000 Later further improvements called hyperaccurate correction 2006 HyperLS 2009 and hyper renormalization 2012 were presented Today these are regarded as the most accurate fitting methods among all known techniques This book describes these algorithms as well implementation details and applications to 3 D scene analysis We also present general mathematical theories of statistical optimization underlying all ellipse fitting algorithms including rigorous covariance and bias analyses and the theoretical accuracy limit The results can be directly applied to other computer vision tasks including computing fundamental matrices and homographies between images This book can serve not simply as a reference of ellipse fitting algorithms for researchers but also as learning material for beginners who want to start computer vision research The sample program codes are downloadable from the website <https://sites.google.com/a/morganclaypool.com/ellipse-fitting-for-computer-vision-implementation-and-applications>

Knowledge-Based Intelligent Information and Engineering Systems Vasile Palade, 2003-10-25 During recent decades we have witnessed not only the introduction of automation into the work environment but we have also seen a dramatic change in how automation has influenced the conditions of work While some 30 years ago the addition of a computer was considered only for routine and boring tasks in support of humans the balance has dramatically shifted to the computer being able to perform almost any task the human is willing to delegate The very fast pace of change in processor and information technology has been the main driving force behind this development Advances in automation and especially Artificial Intelligence AI have enabled the formation of a rather unique team with human and electronic members The team is still supervised by the human with the machine as a subordinate associate or assistant sharing responsibility authority and autonomy over many tasks The requirement for teaming human and machine in a highly dynamic and unpredictable task environment has led to impressive achievements in many supporting technologies These include methods for system analysis design and engineering and in particular for information processing for cognitive and complex knowledge 1 engineering

The Maximum Consensus Problem Tat-Jun Chin, David Suter, 2022-06-01 Outlier contaminated data is a fact of life in computer vision For computer vision applications to perform reliably and accurately in practical settings the processing of the input data must be conducted in a robust manner In this context the maximum consensus robust criterion plays a critical role by allowing the quantity of interest to be estimated from noisy and outlier prone visual measurements The maximum consensus problem refers to the problem of optimizing the quantity of interest according to the maximum consensus criterion This book provides an overview of the algorithms for performing this optimization The emphasis is on the basic operation or inner workings of the algorithms and on their mathematical characteristics in terms of optimality and efficiency The applicability of the techniques to common computer vision tasks is also highlighted By collecting existing techniques in a

single article this book aims to trigger further developments in this theoretically interesting and practically important area

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