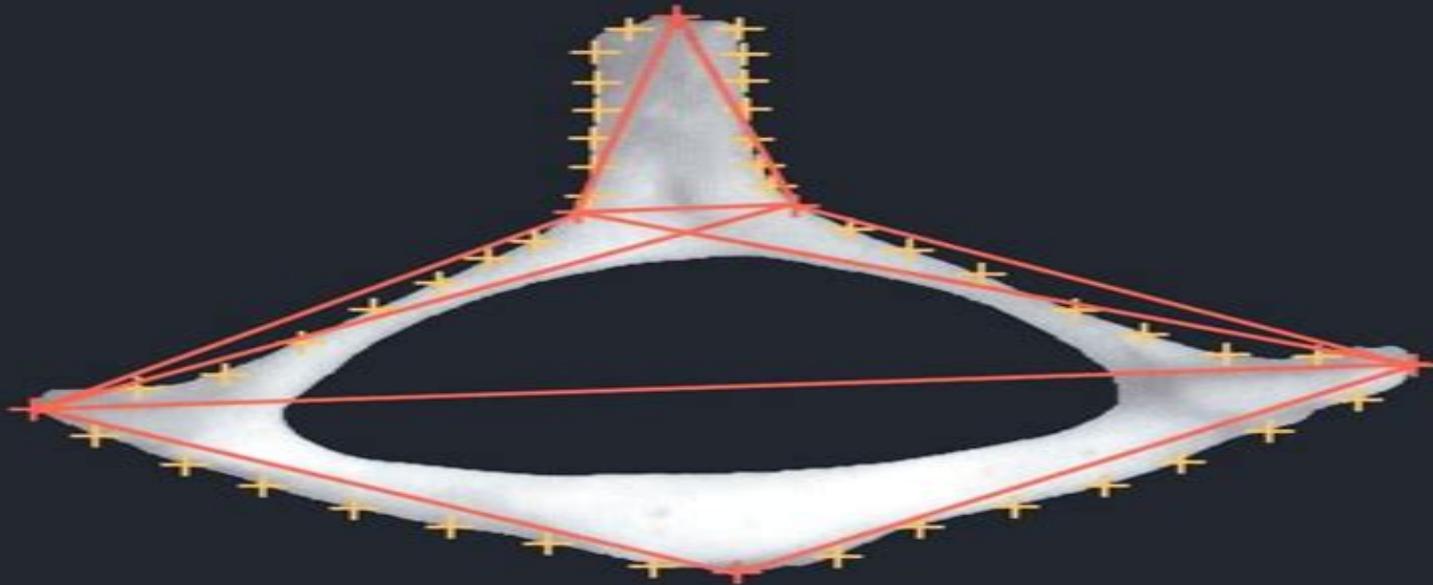


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# STATISTICAL SHAPE ANALYSIS



IAN L. DRYDEN AND KANTI V. MARDIA

# Statistical Shape Analysis

**Daniel Alejandro Valdés Amaro**



## **Statistical Shape Analysis:**

Statistical Shape Analysis Ian L. Dryden, Kanti V. Mardia, 2016-07-08 A thoroughly revised and updated edition of this introduction to modern statistical methods for shape analysis Shape analysis is an important tool in the many disciplines where objects are compared using geometrical features Examples include comparing brain shape in schizophrenia investigating protein molecules in bioinformatics and describing growth of organisms in biology This book is a significant update of the highly regarded Statistical Shape Analysis by the same authors The new edition lays the foundations of landmark shape analysis including geometrical concepts and statistical techniques and extends to include analysis of curves surfaces images and other types of object data Key definitions and concepts are discussed throughout and the relative merits of different approaches are presented The authors have included substantial new material on recent statistical developments and offer numerous examples throughout the text Concepts are introduced in an accessible manner while retaining sufficient detail for more specialist statisticians to appreciate the challenges and opportunities of this new field Computer code has been included for instructional use along with exercises to enable readers to implement the applications themselves in R and to follow the key ideas by hands on analysis Offers a detailed yet accessible treatment of statistical methods for shape analysis Includes numerous examples and applications from many disciplines Provides R code for implementing the examples Covers a wide variety of recent developments in shape analysis Shape Analysis with Applications in R will offer a valuable introduction to this fast moving research area for statisticians and other applied scientists working in diverse areas including archaeology bioinformatics biology chemistry computer science medicine morphometrics and image analysis

**Statistical Shape Analysis** Ian L. Dryden, Kanti V. Mardia, 1998-09-16 This book involves methods for the geometrical study of random objects where location rotation and scale information

**Statistical Shape Analysis** Ian L. Dryden, Kanti V. Mardia, 2016-06-28 A thoroughly revised and updated edition of this introduction to modern statistical methods for shape analysis Shape analysis is an important tool in the many disciplines where objects are compared using geometrical features Examples include comparing brain shape in schizophrenia investigating protein molecules in bioinformatics and describing growth of organisms in biology This book is a significant update of the highly regarded Statistical Shape Analysis by the same authors The new edition lays the foundations of landmark shape analysis including geometrical concepts and statistical techniques and extends to include analysis of curves surfaces images and other types of object data Key definitions and concepts are discussed throughout and the relative merits of different approaches are presented The authors have included substantial new material on recent statistical developments and offer numerous examples throughout the text Concepts are introduced in an accessible manner while retaining sufficient detail for more specialist statisticians to appreciate the challenges and opportunities of this new field Computer code has been included for instructional use along with exercises to enable readers to implement the applications themselves in R and to follow the key ideas by hands on analysis Offers a

detailed yet accessible treatment of statistical methods for shape analysis Includes numerous examples and applications from many disciplines Provides R code for implementing the examples Covers a wide variety of recent developments in shape analysis Shape Analysis with Applications in R will offer a valuable introduction to this fast moving research area for statisticians and other applied scientists working in diverse areas including archaeology bioinformatics biology chemistry computer science medicine morphometrics and image analysis

*Statistical Shape Analysis for Bio-structures* Daniel Alejandro Valdés Amaro,2009

*Statistical Shape Analysis of Anatomical Structures* Poilna Golland,2001

Cont For morphological studies the discriminative direction can be conveniently represented by a deformation of the original shape yielding an intuitive description of shape differences for visualization and further analysis Based on this approach we present a system for statistical shape analysis using distance transforms for shape representation and the Support Vector Machines learning algorithm for the optimal classifier estimation We demonstrate it on artificially generated data sets as well as real medical studies

*The Statistical Theory of Shape* Christopher G. Small,2012-12-06

In general terms the shape of an object data set or image can be de fined as the total of all information that is invariant under translations rotations and isotropic rescalings Thus two objects can be said to have the same shape if they are similar in the sense of Euclidean geometry For example all equilateral triangles have the same shape and so do all cubes In applications bodies rarely have exactly the same shape within measure ment error In such cases the variation in shape can often be the subject of statistical analysis The last decade has seen a considerable growth in interest in the statis tical theory of shape This has been the result of a synthesis of a number of different areas and a recognition that there is considerable common ground among these areas in their study of shape variation Despite this synthesis of disciplines there are several different schools of statistical shape analysis One of these the Kendall school of shape analysis uses a variety of mathe matical tools from differential geometry and probability and is the subject of this book The book does not assume a particularly strong background by the reader in these subjects and so a brief introduction is provided to each of these topics Anyone who is unfamiliar with this material is advised to consult a more complete reference As the literature on these subjects is vast the introductory sections can be used as a brief guide to the literature

**Statistical Shape Analysis of Facial Motions** Kirsten T. Namesnik,2000

**Permutation Tests in Shape Analysis** LUIGI SALMASO,Chiara Brombin,2013-09-06

Statistical shape analysis is a geometrical analysis from a set of shapes in which statistics are measured to describe geometrical properties from similar shapes or different groups for instance the difference between male and female Gorilla skull shapes normal and pathological bone shapes etc Some of the important aspects of shape analysis are to obtain a measure of distance between shapes to estimate average shapes from a possibly random sample and to estimate shape variability in a sample 1 One of the main methods used is principal component analysis Specific applications of shape analysis may be found in archaeology architecture biology geography geology agriculture genetics medical imaging security applications such as face recognition entertainment

industry movies games computer aided design and manufacturing This is a proposal for a new Brief on statistical shape analysis and the various new parametric and non parametric methods utilized to facilitate shape analysis **Statistical Shape Analysis for Image Segmentation and Physical Model-based Non-rigid Registration** Yongmei Wang,1999

Statistical Shape Analysis for Bilateral Symmetry Kolamunnage Dona Rasanga Ruwanthi,2005 **Nonrigid Shape Correspondence for Statistical Shape Analysis** Theodor Dan Richardson,2006 **Statistical Shape Modeling for Custom Design and Analysis** Xilu Wang,2017 The goal of this dissertation research is to use pre existing shape data to improve efficiency and quality of custom design and analysis The rapid advancement of sensor miniaturization and growing sensor networks and computer power has lead to wide availability of massive shape data from populations of objects Such massive shape data range from human body shapes to longitudinal knee observations of osteoarthritis patients Populations of shape data also include shapes of man made objects such as part shapes of the same model due to manufacturing process variation as well as part shapes due to shape degradation after deployment Mining and analysis of such massive population based shape data can result in knowledge of shape variability of the population and lead to the construction of faithful subject specific 3D shape models from sparse measurements It is then possible to predict shape specific functional performance and population wide structural performance variation Such an ability brings about unprecedented capabilities and tantalizing opportunities for mass customization part specific failure prediction and just in time part maintenance and patient specific biomedical intervention and treatment This work aims at developing efficient approaches that can 1 construct faithful subject specific shape models from sparse measurements 2 predict shape specific structural performance from a given subject specific shape model and 3 predict structural performance variation over a shape population Toward this end we present a statistical atlas based approach that incorporates statistical shape modeling in subject specific shape reconstruction finite element FE modeling and analysis The statistical atlas contains three parts the mean shape and the variation modes of the shape population which span a linear shape space the FE mesh of the mean shape and the selected feature points and sizing dimensions The feature points and sizing dimensions are selected by maximizing the total variance they capture of the shape population Given a subject e g a person the corresponding dimensions are measured and the subject specific shape model is synthesized The FE mesh of the mean shape serves as the template mesh which can be morphed to the subject shape to conduct subject specific FE analysis The FE solution on the template mesh can also be extrapolated to the subject shape through Taylor expansion The shape variances along the variation modes are obtained by the principal component analysis These variances tell the amount of shape variabilities in the population and are combined with the Taylor expansion of the FE solution to obtain the structural performance variation across the population The numerical testings with various 2D and 3D shape databases demonstrate the efficiency and effectiveness of the proposed approach for custom design and analysis In this dissertation a statistical atlas based framework is developed for custom

design and analysis The main contributions of this work are 1 An approach that selects feature points and sizing dimensions based on the total variance captured of the shape population 2 Automated subject specific FE modeling through mesh morphing based on the shape correspondence obtained by searching in the shape space A multi correlation based metric is developed to evaluate the quality of the obtained shape correspondences 3 A Taylor expansion approach for predicting subject specific structural performance and computing structural performance variation over a shape population Multi point Taylor expansion approach is developed for the cases that the structural performance is highly nonlinear with respect to the shape parameters

Parametric and Nonparametric Inference for Statistical Dynamic Shape Analysis with Applications  
Chiara Brombin, Luigi Salmaso, Lara Fontanella, Luigi Ippoliti, Caterina Fusilli, 2016-02-11 This book considers specific inferential issues arising from the analysis of dynamic shapes with the attempt to solve the problems at hand using probability models and nonparametric tests The models are simple to understand and interpret and provide a useful tool to describe the global dynamics of the landmark configurations However because of the non Euclidean nature of shape spaces distributions in shape spaces are not straightforward to obtain The book explores the use of the Gaussian distribution in the configuration space with similarity transformations integrated out Specifically it works with the offset normal shape distribution as a probability model for statistical inference on a sample of a temporal sequence of landmark configurations This enables inference for Gaussian processes from configurations onto the shape space The book is divided in two parts with the first three chapters covering material on the offset normal shape distribution and the remaining chapters covering the theory of NonParametric Combination NPC tests The chapters offer a collection of applications which are bound together by the theme of this book They refer to the analysis of data from the FG NET Face and Gesture Recognition Research Network database with facial expressions For these data it may be desirable to provide a description of the dynamics of the expressions or testing whether there is a difference between the dynamics of two facial expressions or testing which of the landmarks are more informative in explaining the pattern of an expression

Proceedings of the IEEE Workshop on Mathematical Methods in Biomedical Image Analysis, 2001 Robust Methods in Statistical Shape Analysis Fikret Er, 1998 Methods in Statistical Shape Analysis for Landmark-based Three-dimensional Data, with Applications to an Orthodontic Study Jennifer Pamela Gamble, 2008 **Statistical Shape Analysis of Helices** Mai F. A. M. Alfahad, 2018 Shape Analysis in Medical Image Analysis Shuo Li, João Manuel R. S. Tavares, 2014-01-28 This book contains thirteen contributions from invited experts of international recognition addressing important issues in shape analysis in medical image analysis including techniques for image segmentation registration modelling and classification and applications in biology as well as in cardiac brain spine chest lung and clinical practice This volume treats topics such as for example anatomic and functional shape representation and matching shape based medical image segmentation shape registration statistical shape analysis shape deformation shape based abnormality detection shape tracking and longitudinal shape analysis machine learning for

shape modeling and analysis shape based computer aided diagnosis shape based medical navigation benchmark and validation of shape representation analysis and modeling algorithms This work will be of interest to researchers students and manufacturers in the fields of artificial intelligence bioengineering biomechanics computational mechanics computational vision computer sciences human motion mathematics medical imaging medicine pattern recognition and physics

**Probabilistic Multi-label Representations for Anatomical Statistical Shape Analysis** Neda Changizi,2010 Several sources of uncertainties in shape boundaries in medical images have motivated the use of probabilistic labeling approaches Being able to perform statistical analysis on these probabilistic multi shape representations is important in understanding normal and pathological geometrical variability of anatomical structures By making use of methods for dealing with what is known as compositional data we propose a new framework intrinsic to the unit simplex for statistical analysis of probabilistic multi shape anatomy In this framework an isometric log ratio transformation is used to isometrically and bijectively map the simplex to the Euclidean real space As another contribution of this thesis the label space multi shape representation of Malcolm et al 49 is extended to the barycentric label space in which a proper invertible mapping between probability vectors and label space is proposed Favorable properties of the proposed methods are demonstrated quantitatively and qualitatively on artificial objects and brain image data *Statistical Shape Analysis of Large Molecular Data Sets* Anthony Hennessey,2018

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