

# Directional Statistics

Data in degrees or coordinates

# Directional Statistics

**Lloyd Milton Short**



## **Directional Statistics:**

**Directional Statistics** Kanti V. Mardia, Peter E. Jupp, 2009-09-25 Presents new and up dated material on both the underlying theory and the practical methodology of directional statistics helping the reader to utilise and develop the techniques appropriate to their work The book is divided into three parts The first part concentrates on statistics on the circle Topics covered include tests of uniformity tests of good of fit inference on von Mises distributions and non parametric methods The second part considers statistics on spheres of arbitrary dimension and includes a detailed account of inference on the main distributions on spheres Recent material on correlation regression time series robust techniques bootstrap methods density estimation and curve fitting is presented The third part considers statistics on more general sample spaces in particular rotation groups Stiefel manifolds Grassmann manifolds and complex projective spaces Shape analysis is considered from the perspective of directional statistics Written by leading authors in the field this text will be invaluable not only to researchers in probability and statistics interested in the latest developments in directional statistics but also to practitioners and researchers in many scientific fields including astronomy biology computer vision earth sciences and image analysis

**Modern Directional Statistics** Christophe Ley, Thomas Verdebout, 2017-08-03 Modern Directional Statistics collects important advances in methodology and theory for directional statistics over the last two decades It provides a detailed overview and analysis of recent results that can help both researchers and practitioners Knowledge of multivariate statistics eases the reading but is not mandatory The field of directional statistics has received a lot of attention over the past two decades due to new demands from domains such as life sciences or machine learning to the availability of massive data sets requiring adapted statistical techniques and to technological advances This book covers important progresses in distribution theory high dimensional statistics kernel density estimation efficient inference on directional supports and computational and graphical methods Christophe Ley is professor of mathematical statistics at Ghent University His research interests include semi parametrically efficient inference flexible modeling directional statistics and the study of asymptotic approximations via Stein's Method His achievements include the Marie Jeanne Laurent Duhamel prize of the Soci t  Fran aise de Statistique and an elected membership at the International Statistical Institute He is associate editor for the journals Computational Statistics Data Analysis and Econometrics and Statistics Thomas Verdebout is professor of mathematical statistics at Universit  libre de Bruxelles ULB His main research interests are semi parametric statistics high dimensional statistics directional statistics and rank based procedures He has won an annual prize of the Belgian Academy of Sciences and is an elected member of the International Statistical Institute He is associate editor for the journals Statistics and Probability Letters and Journal of Multivariate Analysis

**Statistics of Directional Data** K. V. Mardia, 2014-07-03 Probability and Mathematical Statistics A Series of Monographs and Textbooks Statistics of Directional Data aims to provide a systematic account of statistical theory and methodology for observations which are directions The publication first

elaborates on angular data and frequency distributions descriptive measures and basic concepts and theoretical models Discussions focus on moments and measures of location and dispersion distribution function corrections for grouping calculation of the mean direction and the circular variance interrelations between different units of angular measurement and diagrammatical representation The book then examines fundamental theorems and distribution theory point estimation and tests for samples from von Mises populations The text takes a look at non parametric tests distributions on spheres and inference problems on the sphere Topics include tests for axial data point estimation distribution theory moments and limiting distributions and tests of goodness of fit and tests of uniformity The publication is a dependable reference for researchers interested in probability and mathematical statistics

### **Directional Statistics for Innovative Applications**

Ashis SenGupta, Barry C. Arnold, 2022-06-15 In commemoration of the bicentennial of the birth of the lady who gave the rose diagram to us this special contributed book pays a statistical tribute to Florence Nightingale This book presents recent phenomenal developments both in rigorous theory as well as in emerging methods for applications in directional statistics in 25 chapters with contributions from 65 renowned researchers from 25 countries With the advent of modern techniques in statistical paradigms and statistical machine learning directional statistics has become an indispensable tool Ranging from data on circles to that on the spheres tori and cylinders this book includes solutions to problems on exploratory data analysis probability distributions on manifolds maximum entropy directional regression analysis spatio directional time series optimal inference simulation statistical machine learning with big data and more with their innovative applications to emerging real life problems in astro statistics bioinformatics crystallography optimal transport statistical process control and so on

**Applied Directional Statistics** Christophe Ley, Thomas Verdebout, 2019 *Directional Statistics* Kantilal Varichand

Mardia, 1999 **Directional Statistics** Gary L. Gaile, James E. Burt, 1980 *Probability Distributions for Directional Data on Smooth Manifolds* Ashis SenGupta, Kunio Shimizu, 2022-04-26 This book provides a comprehensive and rigorous treatment of real life scientific problems which encounter non linear data The authors first present methods for developing distributions on a circle Then they proceed to show how such methods are generalized for other manifolds They also consider new methods peculiar to certain other manifolds like disc and hyperdisc The organization of the book develops the methods from the beginning for a simple manifold letting the reader appreciate how these unfold and generalize to more complicated manifolds Next rather than separately treating one distribution at a time the authors develop the generalizations of the methods of derivations Finally new distributions are presented as outcomes of these generalizations The authors also provide several real life examples which not only attest to the ongoing usefulness but will also help the reader visualize other modern day areas of the applications of these important distributions *Geofizicheskiĭ bĭulletin*, 2001 *Current Index to Statistics, Applications, Methods and Theory*, 1997 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields Bulletin - Institute of Mathematical Statistics Institute of Mathematical

Statistics,1979      **Wind and Wave Climate Atlas: The East Coast of Canada** ,1991      **Oceanology** Society for  
Underwater Technology,1986-02-28      *Journal of the Indian Society of Agricultural Statistics* Indian Society of Agricultural  
Statistics,1996 Includes articles along with Society s activities      **Proceedings of the IEEE ... Working Conference on**  
**Current Measurement** ,1990      *Statistics of the State of Tasmania for the Year ...* ,1922      **The Development of**  
**National Administrative Organization in the United States** Lloyd Milton Short,1923      Analytical Urban Geography  
Martin T. Cadwallader,1985      **Report** Washington (State). Department of Public Service,1930      *Annual Report on*  
*Reforms and Progress in Chosen (Korea)*. Korea,1915

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