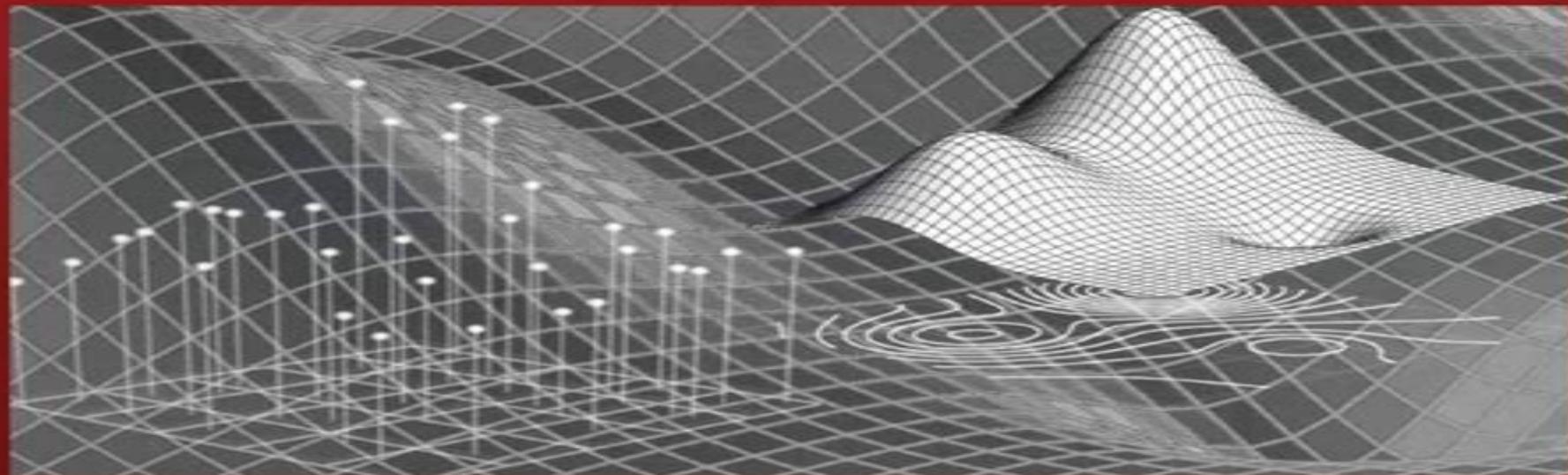




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Multidimensional Minimizing Splines



***Rémi Arcangéli
María Cruz López de Silanes
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Multidimensional Minimizing Splines Theory And Applications

Ying Liu



Multidimensional Minimizing Splines Theory And Applications:

Multidimensional Minimizing Splines R. Arcangéli, María Cruz López de Silanes, Juan José Torrens, 2006-02-27 This book is of interest to mathematicians geologists engineers and in general researchers and post graduate students involved in spline function theory surface fitting problems or variational methods From reviews The book is well organized and the English is very good I recommend the book to researchers in approximation theory and to anyone interested in bivariate data fitting L L Schumaker *Mathematical Reviews* 2005

Polynomials Cheon Seoung Ryoo, 2019-05-02 Polynomials are well known for their ability to improve their properties and for their applicability in the interdisciplinary fields of engineering and science Many problems arising in engineering and physics are mathematically constructed by differential equations Most of these problems can only be solved using special polynomials Special polynomials and orthonormal polynomials provide a new way to analyze solutions of various equations often encountered in engineering and physical problems In particular special polynomials play a fundamental and important role in mathematics and applied mathematics Until now research on polynomials has been done in mathematics and applied mathematics only This book is based on recent results in all areas related to polynomials Divided into sections on theory and application this book provides an overview of the current research in the field of polynomials Topics include cyclotomic and Littlewood polynomials Descartes rule of signs obtaining explicit formulas and identities for polynomials defined by generating functions polynomials with symmetric zeros numerical investigation on the structure of the zeros of the q tangent polynomials investigation and synthesis of robust polynomials in uncertainty on the basis of the root locus theory pricing basket options by polynomial approximations and orthogonal expansion in time domain method for solving Maxwell's equations using paralleling in order scheme

Spline Functions on Triangulations Ming-Jun Lai, Larry L. Schumaker, 2007-04-19 Comprehensive graduate text offering a detailed mathematical treatment of polynomial splines on triangulations

Analytic Number Theory, Approximation Theory, and Special Functions Gradimir V. Milovanović, Michael Th. Rassias, 2014-07-08 This book in honor of Hari M Srivastava discusses essential developments in mathematical research in a variety of problems It contains thirty five articles written by eminent scientists from the international mathematical community including both research and survey works Subjects covered include analytic number theory combinatorics special sequences of numbers and polynomials analytic inequalities and applications approximation of functions and quadratures orthogonality and special and complex functions The mathematical results and open problems discussed in this book are presented in a simple and self contained manner The book contains an overview of old and new results methods and theories toward the solution of longstanding problems in a wide scientific field as well as new results in rapidly progressing areas of research The book will be useful for researchers and graduate students in the fields of mathematics physics and other computational and applied sciences

Mathematical Reviews, 2005 *The British National Bibliography* Arthur James Wells, 2004

Topics in Splines and Applications Young Kinh-Nhue Truong, Muhammad

Sarfraz,2018-06-06 Splines provide a significant tool for the design of computationally economical curves and surfaces for the construction of various objects like automobiles ship hulls airplane fuselages and wings propeller blades shoe insoles bottles etc It also contributes in the description of geological physical statistical and even medical phenomena Spline methods have proven to be indispensable in a variety of modern industries including computer vision robotics signal and image processing visualization textile graphic designs and even media This book aims to provide a valuable source on splines and their applications It focuses on collecting and disseminating information in various disciplines including computer aided geometric design computer graphics data visualization data fitting power systems clinical and epidemiologic studies disease detection regression curves social media and biological studies The book is useful for researchers scientists practitioners and many others who seek state of the art techniques and applications using splines It is also useful for undergraduate senior students as well as graduate students in the areas of computer science engineering health science statistics and mathematics Each chapter also provides useful information on software developments and their extensions

Proceedings of the Third ACM Symposium on Solid Modeling and Applications Christoph Martin Hoffmann,1995

Variational Regularization of 3D Data Hebert Montegranario,Jairo Espinosa,2014-03-14 Variational Regularization of 3D Data provides an introduction to variational methods for data modelling and its application in computer vision In this book the authors identify interpolation as an inverse problem that can be solved by Tikhonov regularization The proposed solutions are generalizations of one dimensional splines applicable to n dimensional data and the central idea is that these splines can be obtained by regularization theory using a trade off between the fidelity of the data and smoothness properties As a foundation the authors present a comprehensive guide to the necessary fundamentals of functional analysis and variational calculus as well as splines The implementation and numerical experiments are illustrated using MATLAB The book also includes the necessary theoretical background for approximation methods and some details of the computer implementation of the algorithms A working knowledge of multivariable calculus and basic vector and matrix methods should serve as an adequate prerequisite

SIAM Journal on Scientific and Statistical Computing Society for Industrial and Applied Mathematics,1987

Nonlinear Modeling And Forecasting Martin Casdagli,Stephen Eubank,1992-06-20 Based on a Santa Fe Institute and NATO sponsored workshop this book brings together the ideas of leading researchers in the rapidly expanding interdisciplinary field of nonlinear modeling in an attempt to stimulate the cross fertilization of ideas and the search for unifying themes The central theme of the workshop was the construction of nonlinear models from time series data Approaches to this problem have drawn from the disciplines of multivariate function approximation and neural nets dynamical systems and chaos statistics information theory and control theory Applications have been made to economics mechanical engineering meteorology speech processing biology and fluid dynamics

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Bulletin of the Novosibirsk Computing Center ,1993 **Dissertation Abstracts International** ,2005 **Handbook of
Medical Image Processing and Analysis** Isaac Bankman,2008-12-24 The Handbook of Medical Image Processing and
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