Curve and Surface Fitting with Splines

PAUL DIERCKX

Curve And Surface Fitting With Splines Numerical Mathematics And Scientific Computation

Dingyu Xue,YangQuan Chen

Curve And Surface Fitting With Splines Numerical Mathematics And Scientific Computation:

Curve and Surface Fitting with Splines Paul Dierckx,1995 Describes the algorithms and mathematical fundamentals of a widely used FORTRAN package for curve and surface fitting with splines **Scientific Computing with MATLAB and Octave** Alfio Quarteroni,Fausto Saleri,Paola Gervasio,2014-02-20 This textbook is an introduction to Scientific Computing in which several numerical methods for the computer based solution of certain classes of mathematical problems are illustrated The authors show how to compute the zeros the extrema and the integrals of continuous functions solve linear systems approximate functions using polynomials and construct accurate approximations for the solution of ordinary and partial differential equations To make the format concrete and appealing the programming environments Matlab and Octave are adopted as faithful companions The book contains the solutions to several problems posed in exercises and examples often originating from important applications At the end of each chapter a specific section is devoted to subjects which were not addressed in the book and contains bibliographical references for a more comprehensive treatment of the material From the review This carefully written textbook the third English edition contains substantial new developments on the numerical solution of differential equations It is typeset in a two color design and is written in a style suited for readers who have mathematics natural sciences computer sciences or economics as a background and who are interested in a well organized introduction to the subject Roberto Plato Siegen Zentralblatt MATH 1205 65002 **Numerical Methods in Scientific Computing** Germund Dahlquist,Ake Bjorck,2008-01-01 This new book from the authors of the classic book Numerical methods addresses the increasingly important role of numerical methods in science and engineering More cohesive and comprehensive than any other modern textbook in the field it combines traditional and well developed topics with other material that is rarely found in numerical analysis texts such as interval arithmetic elementary functions operator series convergence acceleration and continued fractions Although this volume is self contained more comprehensive treatments of matrix computations will be given in a forthcoming volume A supplementary Website contains three appendices an introduction to matrix computations a description of Mulprec a MATLAB multiple precision package and a guide to literature algorithms and software in numerical analysis Review questions problems and computer exercises are also included For use in an introductory graduate course in numerical analysis and for researchers who use numerical methods in science and engineering **Approximation Theory and Numerical Analysis Meet Algebra, Geometry, Topology** Martina Lanini,Carla Manni,Henry Schenck,2024-12-22 The book based on the INdAM Workshop Approximation Theory and Numerical Analysis Meet Algebra Geometry Topology provides a bridge between different communities of mathematicians who utilize splines in their work Splines are mathematical objects which allow researchers in geometric modeling and approximation theory to tackle a wide variety of questions Splines are interesting for both applied mathematicians and also for those working in purely theoretical mathematical settings This book contains contributions by researchers from different

mathematical communities on the applied side those working in numerical analysis and approximation theory and on the theoretical side those working in GKM theory equivariant cohomology and homological algebra **Proceedings of the Conference on Applied Mathematics and Scientific Computing** Zlatko Drmac,Miljenko Marusic,Zvonimir Tutek,2005-02-23 The Third Conference on Applied Mathematics and Scienti c Computing took place June 23 27 2003 on island of Brijuni Croatia The main goal of the conference was to interchange ideas among applied mathematicians in the broadest sense both from and outside academia as well as experts from other areas who apply different mathematical techniques During the meeting there were invited and contributed talksand software presentations Invited presentations were given by active researchers from the eldsof approximation theory numerical methods for differential equations and numericallinear algebra These proceedings contain research and review papers by invited speakers and selected contributed papers from the elds of applied and numerical mathematics A particular aim of the conference was to encourage young scientists to present results of their research Traditionally the best presentation given by PhD student was rewarded This year awardee was Luka Grubisi c University of Hagen Hagen Germany and we congratulate him for this achievement It would be hard to organize the conference without generous support of the Croatian Ministry of Science and Technology and we acknowledge it We are also indebted to themainorganizer Department of Mathematics University of Zagreb Motivating beautiful nature should bealso mentioned And attheend we are thankful to Drs JosipTambaca and Ivica Nakic for giving this book its nal shape **Scientific Computing with MATLAB** Alfio Quarteroni,Fausto Saleri,2012-12-06 It is important to prove is more but it important to improve This textbook is an introduction to Scientific Computing We will illustrate several numerical methods for the computer solution of cer tain classes of mathematical problems that cannot be faced by paper and pencil We will show how to compute the zeros or the integrals of continuous functions solve linear systems approximate functions by polynomials and construct accurate approximations for the solution of differential equations With this aim in Chapter 1 we will illustrate the rules of the game that computers adopt when storing and operating with real and complex numbers vectors and matrices In order to make our presentation concrete and appealing we will adopt the programming environment MATLAB 1 as a faithful companion We will gradually discover its principal commands statements and con structs We will show how to execute all the algorithms that we intro duce throughout the book This will enable us to furnish an immediate quantitative assessment of their theoretical properties such as stability accuracy and complexity We will solve several problems that will be raised through exercises and examples often stemming from specific ap plications

Numerical Mathematics Alfio Quarteroni,Riccardo Sacco,Fausto Saleri,2010-11-30 This book provides the mathematical foundations of numerical methods and demonstrates their performance on examples exercises and real life applications This is done using the MATLAB software environment which allows an easy implementation and testing of the algorithms for any specific class of problems The book is addressed to students in Engineering Mathematics Physics and Computer Sciences In

the second edition of this extremely popular textbook on numerical analysis the readability of pictures tables and program headings has been improved Several changes in the chapters on iterative methods and on polynomial approximation have also been **Computational Methods for Algebraic Spline Surfaces** Tor Dokken,Bert Jüttler,2006-05-24 This volume contains revised papers that were presented at the international workshop entitled Computational Methods for Algebraic Spline Surfaces COMPASS which was held from September 29 to October 3 2003 at Schlo Weinberg Kefermarkt A tria The workshop was mainly devoted to approximate algebraic geometry and its plications The organizers wanted to emphasize the novel idea of approximate implici zation that has strengthened the existing link between CAD CAGD Computer Aided Geometric Design and classical algebraic geometry The existing methods for exact implicitization i e for conversion from the parametric to an implicit representation of a curve or surface require exact arithmetic and are too slow and too expensive for industrial use Thus the duality of an implicit representation and a parametric repres tation is only used for low degree algebraic surfaces such as planes spheres cylinders cones and toroidal surfaces On the other hand this duality is a very useful tool for veloping ef cient algorithms Approximate implicitization makes this duality available for general curves and surfaces The traditional exact implicitization of parametric surfaces produce global rep sentations which are exact everywhere The surface patches used in CAD however are always de ned within a small box only they are obtained for a bounded parameter domain typically a rectangle or in the case of trimmed surface patches a subset of a rectangle Consequently a globally exact representation is not really needed in practice **Mathematical Methods for Curves and Surfaces** Morten Dæhlen,Michael S. Floater,Tom Lyche,Jean-Louis Merrien,Knut Morken,Larry L. Schumaker,2010-03-02 This volume constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Mathematical Methods for Curves and Surfaces MMCS 2008 held in T nsberg Norway in June July 2008 The 28 revised full papers presented were carefully reviewed and selected from 129 talks presented at the conference The topics addressed by the papers range from mathematical analysis of various methods to practical implementation on modern graphics processing units **On the Capacity to Absorb Public Investment: How Much is Too Much?** Daniel Gurara,Mr.Kangni R Kpodar,Mr.Andrea F Presbitero,Dawit Tessema,2020-02-28 While expanding public investment can help filling infrastructure bottlenecks scaling up too much and too fast often leads to inefficient outcomes This paper rationalizes this outcome looking at the association between cost inflation and public investment in a large sample of road construction projects in developing countries Consistent with the presence of absorptive capacity constraints our results show a non linear U shaped relationship between public investment and project costs Unit costs increase once public investment is close to 10% of GDP This threshold is lower about 7% of GDP in countries with low investment efficiency and in general the effect of investment scaling up on costs is especially strong during investment booms **Scientific Computing** Michael T. Heath,2018-11-14 This book differs from traditional numerical analysis texts in that it focuses on the motivation and ideas behind the

algorithms presented rather than on detailed analyses of them It presents a broad overview of methods and software for solving mathematical problems arising in computational modeling and data analysis including proper problem formulation selection of effective solution algorithms and interpretation of results In the 20 years since its original publication the modern fundamental perspective of this book has aged well and it continues to be used in the classroom This Classics edition has been updated to include pointers to Python software and the Chebfun package expansions on barycentric formulation for Lagrange polynomial interpretation and stochastic methods and the availability of about 100 interactive educational modules that dynamically illustrate the concepts and algorithms in the book Scientific Computing An Introductory Survey Second Edition is intended as both a textbook and a reference for computationally oriented disciplines that need to solve mathematical problems **Numerical Analysis** Walter Gautschi,2011-12-06 Revised and updated this second edition of Walter Gautschi s successful Numerical Analysis explores computational methods for problems arising in the areas of classical analysis approximation theory and ordinary differential equations among others Topics included in the book are presented with a view toward stressing basic principles and maintaining simplicity and teachability as far as possible while subjects requiring a higher level of technicality are referenced in detailed bibliographic notes at the end of each chapter Readers are thus given the guidance and opportunity to pursue advanced modern topics in more depth Along with updated references new biographical notes and enhanced notational clarity this second edition includes the expansion of an already large collection of exercises and assignments both the kind that deal with theoretical and practical aspects of the subject and those requiring machine computation and the use of mathematical software Perhaps most notably the edition also comes with a complete solutions manual carefully developed and polished by the author which will serve as an exceptionally valuable resource for instructors *Computational Science – ICCS 2023* Jiří Mikyška,Clélia de Mulatier,Maciej Paszynski,Valeria V. Krzhizhanovskaya,Jack J. Dongarra,Peter M.A. Sloot,2023-06-29 The five volume set LNCS 14073 14077 constitutes the proceedings of the 23rd International Conference on Computational Science ICCS 2023 held in Prague Czech Republic during July 3 5 2023 The total of 188 full papers and 94 short papers presented in this book set were carefully reviewed and selected from 530 submissions 54 full and 37 short papers were accepted to the main track 134 full and 57 short papers were accepted to the workshops thematic tracks The theme for 2023 Computation at the Cutting Edge of Science highlights the role of Computational Science in assisting multidisciplinary research This conference was a unique event focusing on recent developments in scalable scientific algorithms advanced software tools computational grids advanced numerical methods and novel application areas These innovative novel models algorithms and tools drive new science through efficient application in physical systems computational and systems biology environmental systems finance and others **Computational Science - ICCS 2007** Yong Shi,2007-05-18 Part of a four volume set this book constitutes the refereed proceedings of the 7th International Conference on Computational Science ICCS 2007 held in Beijing China in May 2007 The papers cover a large

volume of topics in computational science and related areas from multiscale physics to wireless networks and from graph theory to tools for program development **Exploring Numerical Methods** Peter Linz,Richard Wang,2003 Advanced Mathematics Nature-Inspired Computation in Engineering Xin-She Yang,2016-03-19 This timely review book summarizes the state of the art developments in nature inspired optimization algorithms and their applications in engineering Algorithms and topics include the overview and history of nature inspired algorithms discrete firefly algorithm discrete cuckoo search plant propagation algorithm parameter free bat algorithm gravitational search biogeography based algorithm differential evolution particle swarm optimization and others Applications include vehicle routing swarming robots discrete and combinatorial optimization clustering of wireless sensor networks cell formation economic load dispatch metamodeling surrogated assisted cooperative co evolution data fitting and reverse engineering as well as other case studies in engineering This book will be an ideal reference for researchers lecturers graduates and engineers who are interested in nature inspired computation artificial intelligence and computational intelligence It can also serve as a reference for relevant courses in computer science artificial intelligence and machine learning natural computation engineering optimization and data mining **Scientific Computing with MATLAB** Dingyu Xue,YangQuan Chen,2018-09-03 Scientific Computing with MATLAB Second Edition improves students ability to tackle mathematical problems It helps students understand the mathematical background and find reliable and accurate solutions to mathematical problems with the use of MATLAB avoiding the tedious and complex technical details of mathematics This edition retains the structure of its predecessor while expanding and updating the content of each chapter The book bridges the gap between problems and solutions through well grouped topics and clear MATLAB example scripts and reproducible MATLAB generated plots Students can effortlessly experiment with the scripts for a deep hands on exploration Each chapter also includes a set of problems to strengthen understanding of the material **Mathematics of Computation 1943-1993: A Half-Century of Computational Mathematics** Walter Gautschi,1994 Proceedings of an International Conference held in Vancouver B C August 1993 to commemorate the 50th anniversary of the founding of the journal Mathematics of Computation It consisted of a Symposium on Numerical Analysis and a Minisymposium of Computational Number Theory This proceedings contains 14 invited papers including two not presented at the conference an historical essay on integer factorization and a paper on componentwise perturbation bounds in linear algebra The invited papers present surveys on the various subdisciplines covered by Mathematics of Computation in a historical perspective and in a language accessible to a wide audience The 46 contributed papers address contemporary specialized work Annotation copyright by Book News Inc Portland OR **Interpolating Cubic Splines** Gary D. Knott,2012-12-06 A spline is a thin flexible strip composed of a material such as bamboo or steel that can be bent to pass through or near given points in the plane or in 3 space in a smooth manner Mechanical engineers and drafting specialists find such physical splines useful in designing and in drawing plans for a wide variety of objects such as for hulls of boats or

for the bodies of automobiles where smooth curves need to be specified These days physi cal splines are largely replaced by computer software that can compute the desired curves with appropriate encouragment The same mathematical ideas used for computing spline curves can be extended to allow us to compute spline surfaces The application ofthese mathematical ideas is rather widespread Spline functions are central to computer graphics disciplines Spline curves and surfaces are used in computer graphics renderings for both real and imagi nary objects Computer aided design CAD systems depend on algorithms for computing spline functions and splines are used in numerical analysis and statistics Thus the construction of movies and computer games trav els side by side with the art of automobile design sail construction and architecture and statisticians and applied mathematicians use splines as everyday computational tools often divorced from graphic images

Advances in Computational Intelligence Ignacio Rojas,Gonzalo Joya,Andreu Catala,2015-06-05 This two volume set LNCS 9094 and LNCS 9095 constitutes the thoroughly refereed proceedings of the 13th International Work Conference on Artificial Neural Networks IWANN 2015 held in Palma de Mallorca Spain in June 2013 The 99 revised full papers presented together with 1 invited talk were carefully reviewed and selected from 195 submissions The papers are organized in topical sections on brain computer interfaces applications and tele services multi robot systems applications and theory MRSAT video and image processing transfer learning structures algorithms and methods in artificial intelligence interactive and cognitive environments mathematical and theoretical methods in fuzzy systems pattern recognition embedded intelligent systems expert systems advances in computational intelligence and applications of computational intelligence

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