



Multiresolution Methods in Scattered Data Modelling



Multiresolution Methods In Scattered Data Modelling

Armin Iske

Multiresolution Methods In Scattered Data Modelling:

Multiresolution Methods in Scattered Data Modelling Armin Iske,2004-04-01 This application oriented work concerns the design of efficient robust and reliable algorithms for the numerical simulation of multiscale phenomena To this end various modern techniques from scattered data modelling such as splines over triangulations and radial basis functions are combined with customized adaptive strategies which are developed individually in this work The resulting multiresolution methods include thinning algorithms multi levelapproximation schemes and meshfree discretizations for transport equa tions The utility of the proposed computational methods is supported by their wide range of applications such as image compression hierarchical sur face visualization and multiscale flow simulation Special emphasis is placed on comparisons between the various numerical algorithms developed in this work and comparable state of the art methods To this end extensive numerical examples mainly arising from real world applications are provided This research monograph is arranged in six chapters 1 Introduction 2 Algorithms and Data Structures 3 Radial Basis Functions 4 Thinning Algorithms 5 Multilevel Approximation Schemes 6 Meshfree Methods for Transport Equations Chapter 1 provides a preliminary discussion on basic concepts tools and principles of multiresolution methods scattered data modelling multilevel methods and adaptive irregular sampling Relevant algorithms and data structures such as triangulation methods heaps and quadtrees are then introduced in Chapter 2

Multiscale Modeling and Simulation in Science Björn Engquist,Per Lötstedt,Olof Runborg,2009-02-11 Most problems in science involve many scales in time and space An example is turbulent flow where the important large scale quantities of lift and drag of a wing depend on the behavior of the small vortices in the boundarylayer Another example is chemical reactions with concentrations of the species varying over seconds and hours while the time scale of the oscillations of the chemical bonds is of the order of femtoseconds A third example from structural mechanics is the stress and strain in a solid beam which is well described by macroscopic equations but at the tip of a crack modeling details on a microscale are needed A common difficulty with the simulation of these problems and many others in physics chemistry and biology is that an attempt to represent all scales will lead to an enormous computational problem with unacceptably long computation times and large memory requirements On the other hand if the discretization at a coarse level ignoresthe nescale informationthenthesolutionwillnotbephysicallymeaningful The in uence of the ne scales must be incorporated into the model This volume is the result of a Summer School on Multiscale Modeling and S ulation in Science held at Boso n Lidingo outside Stockholm Sweden in June 2007 Sixty PhD students from applied mathematics the sciences and engineering parti pated in the summer school

Meshfree Approximation Methods with MATLAB Gregory E. Fasshauer,2007 Meshfree approximation methods are a relatively new area of research This book provides the salient theoretical results needed for a basic understanding of meshfree approximation methods It places emphasis on a hands on approach that includes MATLAB routines for all basic operations

Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2018

Spencer J. Sherwin, David Moxey, Joaquim Peiró, Peter E. Vincent, Christoph Schwab, 2020-08-11 This open access book features a selection of high quality papers from the presentations at the International Conference on Spectral and High Order Methods 2018 offering an overview of the depth and breadth of the activities within this important research area. The carefully reviewed papers provide a snapshot of the state of the art while the extensive bibliography helps initiate new research directions

Modeling, Simulation and Optimization of Fluid Dynamic Applications Armin Iske, Thomas Rung, 2023-12-13 This book describes recent collaborations combining the expertise of applied mathematicians, engineers and geophysicists within a research training group RTG on Modeling, Simulation and Optimization of Fluid Dynamic Applications funded by the Deutsche Forschungsgemeinschaft DFG. The focus is on mathematical modeling, adaptive discretization, approximation strategies and shape optimization with PDEs. The balanced research program is based on the guiding principle that mathematics drives applications and is inspired by applications. With this leitmotif the RTG advances research in Modeling, Simulation and Optimization by an interdisciplinary approach, i.e. to stimulate fundamental education and research by highly complex applications and at the same time to transfer tailored mathematical methods to applied sciences. The reported research involves nine projects and addresses challenging fluid dynamic problems inspired by applied sciences such as climate research, meteorology, energy, aerospace, marine engineering or medicine. More fundamental research concerning analysis, approximation and numerics is also covered. The material represents a successful attempt to exchange research paradigms between different disciplines and thus displays a modern approach to basic research into scientifically and societally relevant contemporary problems

Approximation Theory XV: San Antonio 2016 Gregory E. Fasshauer, Larry L. Schumaker, 2017-07-19 These proceedings are based on papers presented at the international conference Approximation Theory XV which was held May 22–25, 2016 in San Antonio, Texas. The conference was the fifteenth in a series of meetings in Approximation Theory held at various locations in the United States and was attended by 146 participants. The book contains longer survey papers by some of the invited speakers covering topics such as compressive sensing, isogeometric analysis and scaling limits of polynomials and entire functions of exponential type. The book also includes papers on a variety of current topics in Approximation Theory drawn from areas such as advances in kernel approximation with applications, approximation theory and algebraic geometry, multivariate splines for applications, practical function approximation, approximation of PDEs, wavelets and framelets with applications, approximation theory in signal processing, compressive sensing, rational interpolation, spline approximation in isogeometric analysis, approximation of fractional differential equations, numerical integration formulas and trigonometric polynomial approximation.

Meshfree Methods for Partial Differential Equations III Michael Griebel, Marc Alexander Schweitzer, 2007-07-18 Meshfree methods for the numerical solution of partial differential equations are becoming more and more mainstream in many areas of applications. Their flexibility and wide applicability are attracting engineers, scientists and mathematicians to this very dynamic research area. This volume represents the state of

the art in meshfree methods It consists of articles which address the different meshfree techniques their mathematical properties and their application in applied mathematics physics and engineering **Computational Methods in Transport** Frank Graziani,2006-02-17 There exist a wider range of applications where a sign can't fraction of the momentum and energy present in a physical problem is carried by the transport of particles Depending on the specific application the particles involved may be photons neutrons neutrinos or charged particles Regardless of which phenomena is being described at the heart of each application is the fact that a Boltzmann like transport equation has to be solved The complexity and hence expense involved in solving the transport problem can be understood by realizing that the general solution to the 3D Boltzmann transport equation is in fact really seven dimensional 3 spatial coordinates 2 angles 1 time and 1 for speed or energy Low order approximations to the transport equation are frequently used due in part to physical justification but many in cases simply because a solution to the full transport problem is too computationally expensive An example is the diffusion equation which effectively drops the two angles in phase space by assuming that a linear representation in angle is adequate Another approximation is the grey approximation which drops the energy variable by averaging over it If the grey approximation is applied to the diffusion equation the expense of solving what amounts to the simplest possible description of transport is roughly equal to the cost of implicit computational fluid dynamics It is clear therefore that for those application areas needing some form of transport fast accurate and robust transport algorithms can lead to an increase in overall code performance and a decrease in time to solution

Tutorials on Multiresolution in Geometric Modelling

Armin Iske,Ewald Quak,Michael S. Floater,2002-06-12 This is the only textbook available on multiresolution methods in geometric modeling a central topic in visualization which is of great importance for industrial applications Written in tutorial form the book is introductory in character and includes supporting exercises Other supplementary material and software can be downloaded from the website www.math.tum.de/primus/2001

Computational Science and Its Applications - ICCSA

2023 Osvaldo Gervasi,Beniamino Murgante,David Taniar,Bernady O. Apduhan,Ana Cristina Braga,Chiara Garau,Anastasia Stratigea,2023-06-29 The two volume set LNCS 13956 and 13957 constitutes the refereed proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Lesvos Island Greece during July 3-6 2023 The 67 full papers and 13 short papers and 6 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 283 submissions The contributions are grouped in topics which deal with General Track 1 Computational Methods Algorithms and Scientific Applications General Track 2 High Performance Computing and Networks General Track 3 Geometric Modeling Graphics and Visualization General Track 4 Advanced and Emerging Applications General Track 5 Information Systems and Technologies General Track 6 Urban and Regional Planning and PHD Showcase Papers

SIAM Journal on Scientific Computing ,2008 [Vision Geometry](#) ,2001 **Proceedings** ,2009

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new emerging areas of interdisciplinary and multidisciplinary research Continues Proceedings Mathematical and physical sciences **Rundbrief der Gesellschaft fur Angewandte Mathematik und Mechanik** Gesellschaft für Angewandte Mathematik und Mechanik,2002 **Scientific Visualization** Lawrence J. Rosenblum,1994 Numerical simulations of global warming Mars observation data and aircraft design are but a few of the topics where the use of human visual perception for data understanding are considered essential Ten years ago a handful of pioneers professed the value of visualization to skeptical audiences Today with supercomputers and sensors producing ever increasing amounts of data scientific visualization is accepted throughout much of science and engineering as the fundamental tool for data analysis Written by a world wide panel of visualization experts Scientific Visualization Advances and Challenges presents astute coverage of prevailing trends issues and practice of scientific visualization From algorithmic topics such as volume graphics and the modeling and visualization of large data sets to foundations perception and interface technology including virtual reality this book provides the latest advances in the area The book demonstrates new techniques examines diverse application areas and discusses current limitations and upcoming requirements Scientific Visualization Advances and Challenges presents readers with a unique opportunity to examine expert thinking and current practice and to obtain a vision of potential future directions It will be essential reading for scientific and engineering practitioners and visualization researchers alike Offers extremely topical and timely coverage of a rapidly evolving area Includes contributions from an international panel of visualization experts in one accessible volume Provides scientific and engineering practitioners as well as visualization researchers with an essential guide to the literature **Tutorials on Multiresolution in Geometric Modelling** Armin Iske,Ewald Quak,Michael S. Floater,2014-01-15 *Mathematical Reviews* ,2005 *Course Notes* ,1995 **Bulletin of the Belgian Mathematical Society, Simon Stevin** ,2004 **Proceedings of the ... IEEE Conference on Visualization** ,1990

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