

Editorial

Recent Theories and Applications in Approximation Theory

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Approximation theory is a deep theoretical study of methods that use numerical approximation for the problems of mathematical analysis. In practical use, it is typically the application of computer simulation and other forms of computation to problems in various scientific disciplines. Recently, numerical algorithms in approximation theory have been a major thrust of research with numerous applications.

This special issue was opened in the middle of 2014 and closed in February of 2015. A number of selected submissions were accepted for publication after strict reviews, which furnished significant improvements in the topics of the special issue and its related applications. The guest editors of this special issue hope that the published results could provide outstanding viewpoints for further studies.

The fundamental aim of this special issue was to provide new trends in the field of approximation theory and related applications in mathematics. The authors were invited to submit original research articles to stimulate the continuing efforts in numerical approximation of mathematical problems and related theories. The special issue provided a forum for researchers and writers to communicate their state-of-the-art improvements and to propose their new findings on approximation theory.

The topics of the accepted papers cover the area from theory to real applications. Some new schemes and their corresponding convergence analysis have been discussed for some numerical problems. Furthermore, they have been equipped with several numerical tests with some applications.

Now, we have the pleasure to present, the selected papers for this special issue as follows.

S. S. Motsa et al. presented a novel scheme for solving higher order nonlinear evolution partial differential equations (NPDEs). Their discussed approach combines quasilinearisation, the Chebyshev spectral collocation method, and bivariate Lagrange interpolation. They also showed that there is congruence between the numerical results and the exact solutions to a high order of accuracy.

The paper of M. Sharifi et al. presented interesting iterative methods including three steps for solving nonlinear equations. Their iterative approach possesses eighth-order of convergence which is optimal in the sense of Kung-Traub while it is also derivative-free. An integral equation has also been solved as an application-oriented experiment.

T. Lotfi et al., in their paper, investigate an optimal three-step method which has eighth-order of convergence. Then, they applied a self-accelerator parameter with Newtonian interpolation using the highest possible degree to improve the R-order of convergence as much as possible, that is, from 8 to 12 without any additional functional evaluations. This meant that a high computational efficiency index has been obtained for solving nonlinear equations.

H. S. Nik and P. Rebelo presented an application of pseudospectral method for solving the hyperchaotic complex systems. The proposed method, called the Multistage Spectral Relaxation Method (MSRM), was based on a technique of extending Gauss-Seidel type relaxation ideas to systems of nonlinear differential equations, while using the Chebyshev pseudospectral methods to solve the resulting system on a sequence of multiple intervals. Finally, it has been used to solve famous hyperchaotic complex systems such

Journal Approximation Theory Applications

V.A Profillidis, G.N. Botzoris



Journal Approximation Theory Applications:

Approximation Theory VIII - Volume 1: Approximation And Interpolation Charles K Chui, Larry L

Schumaker, 1995-11-07 This is the collection of the refereed and edited papers presented at the 8th Texas International Conference on Approximation Theory It is interdisciplinary in nature and consists of two volumes The central theme of Vol I is the core of approximation theory It includes such important areas as qualitative approximations interpolation theory rational approximations radial basis functions and splines The second volume focuses on topics related to wavelet analysis including multiresolution and multi level approximation subdivision schemes in CAGD and applications **The Schur**

Complement and Its Applications Fuzhen Zhang, 2006-03-30 What's in a name To paraphrase Shakespeare's Juliet that which ilie Haynsworth called the Schur complement by any other name would be just as beautiful Nevertheless her 1968 naming decision in honor of Issai Schur 1875 1941 has gained lasting acceptance by the mathematical community The Schur complement plays an important role in matrix analysis statistics numerical analysis and many other areas of mathematics and its applications Our goal is to expose the Schur complement as a rich and basic tool in mathematical research and applications and to discuss many significant results that illustrate its power and fertility Although our book was originally conceived as a research reference it will also be useful for graduate and upper division undergraduate courses in mathematics applied mathematics and statistics The contributing authors have developed an exposition that makes the material accessible to readers with a sound foundation in linear algebra The eight chapters of the book Chapters 0-7 cover themes and variations on the Schur complement including its historical development basic properties eigenvalue and singular value inequalities matrix inequalities in both finite and infinite dimensional settings closure properties and applications in statistics probability and numerical analysis The chapters need not be read in the order presented and the reader should feel at leisure to browse freely through topics of interest **Approximation Theory VIII** Charles K. Chui, 1995 This

is the collection of the refereed and edited papers presented at the 8th Texas International Conference on Approximation Theory It is interdisciplinary in nature and consists of two volumes The central theme of Vol I is the core of approximation theory It includes such important areas as qualitative approximations interpolation theory rational approximations radial basis functions and splines The second volume focuses on topics related to wavelet analysis including multiresolution and multi level approximation subdivision schemes in CAGD and applications *Computational Learning Theory* Paul

Fischer, Hans U. Simon, 2003-07-31 This book constitutes the refereed proceedings of the 4th European Conference on Computational Learning Theory EuroCOLT 99 held in Nordkirchen Germany in March 1999 The 21 revised full papers presented were selected from a total of 35 submissions also included are two invited contributions The book is divided in topical sections on learning from queries and counterexamples reinforcement learning online learning and expert advice teaching and learning inductive inference and statistical theory of learning and pattern recognition **Research Review**

,1968-07 Emerging Applications of Differential Equations and Game Theory Alparslan Gök, S?rma Zeynep,Aru?aslan Çinçin, Duygu,2019-11-22 Branches of mathematics and advanced mathematical algorithms can help solve daily problems throughout various fields of applied sciences Domains like economics mechanical engineering and multi person decision making benefit from the inclusion of mathematics to maximize utility and cooperation across disciplines There is a need for studies seeking to understand the theories and practice of using differential mathematics to increase efficiency and order in the modern world Emerging Applications of Differential Equations and Game Theory is a collection of innovative research that examines the recent advancements on interdisciplinary areas of applied mathematics While highlighting topics such as artificial neuron networks stochastic optimization and dynamical systems this publication is ideally designed for engineers cryptologists economists computer scientists business managers mathematicians mechanics academicians researchers and students

Handbook of Research on Modeling, Analysis, and Application of Nature-Inspired Metaheuristic Algorithms Dash, Sujata,Tripathy, B.K.,Rahman, Atta ur,2017-08-10 The digital age is ripe with emerging advances and applications in technological innovations Mimicking the structure of complex systems in nature can provide new ideas on how to organize mechanical and personal systems The Handbook of Research on Modeling Analysis and Application of Nature Inspired Metaheuristic Algorithms is an essential scholarly resource on current algorithms that have been inspired by the natural world Featuring coverage on diverse topics such as cellular automata simulated annealing genetic programming and differential evolution this reference publication is ideal for scientists biological engineers academics students and researchers that are interested in discovering what models from nature influence the current technology centric world

The Theory of Canonical Moments with Applications in Statistics, Probability, and Analysis Holger Dette,William J. Studden,1997-09-08 Abweichend von dem in der Literatur blichen Ansatz wird die Momententheorie und ihre Anwendung hier aus dem Blickwinkel von Statistik Wahrscheinlichkeitstheorie und Analysis betrachtet Zweck des Buches ist aufzuzeigen da die kanonischen Momente ein sehr leistungsstarkes Instrument sind zur Bestimmung der optimalen Versuchsplanung zur Berechnung der Hauptmerkmale der Random Walk Theorie und zur Behandlung wahrscheinlichkeits und statistikspezifischer Momentproblematik Die Themenauswahl erfolgte unter dem Gesichtspunkt da einerseits anwendungsorientierte Leser einen ausreichend gro en Einblick gewinnen um mit dieser Problematik ganz konkret arbeiten zu k nnen und andererseits Theoretiker eine ersch pfende Darstellung des mathematischen Hintergrundes erhalten 10 97

Current Developments in Solid Mechanics and Their Applications Holm Altenbach,2025-07-07 This book is a collection of articles by eminent scientists from different countries who participated in the traditional international conference Topical Problems of Continuum Mechanics held at the Institute of Mechanics of the National Academy of Sciences of Armenia since 2007 The topics of the articles Coupled Fields in Solids Composites Soil Mechanics Fluid Mechanics Mechanics of Nano Systems Structural Mechanics Biomechanics Hydraulics and Hydraulic Facilities Experimental Mechanics *In the Light of Logic*

Solomon Feferman,1998-11-19 In this collection of essays written over a period of twenty years Solomon Feferman explains advanced results in modern logic and employs them to cast light on significant problems in the foundations of mathematics Most troubling among these is the revolutionary way in which Georg Cantor elaborated the nature of the infinite and in doing so helped transform the face of twentieth century mathematics Feferman details the development of Cantorian concepts and the foundational difficulties they engendered He argues that the freedom provided by Cantorian set theory was purchased at a heavy philosophical price namely adherence to a form of mathematical platonism that is difficult to support Beginning with a previously unpublished lecture for a general audience Deciding the Undecidable Feferman examines the famous list of twenty three mathematical problems posed by David Hilbert concentrating on three problems that have most to do with logic Other chapters are devoted to the work and thought of Kurt G del whose stunning results in the 1930s on the incompleteness of formal systems and the consistency of Cantors continuum hypothesis have been of utmost importance to all subsequent work in logic Though G del has been identified as the leading defender of set theoretical platonism surprisingly even he at one point regarded it as unacceptable In his concluding chapters Feferman uses tools from the special part of logic called proof theory to explain how the vast part if not all of scientifically applicable mathematics can be justified on the basis of purely arithmetical principles At least to that extent the question raised in two of the essays of the volume Is Cantor Necessary is answered with a resounding no This volume of important and influential work by one of the leading figures in logic and the foundations of mathematics is essential reading for anyone interested in these subjects Probability Theory and Extreme Value Theory Madan Lal Puri,2011-07-11 No detailed description available for Probability Theory and Extreme Value Theory **Genericity in Nonlinear Analysis** Simeon Reich,Alexander J. Zaslavski,2013-11-21 This book presents an extensive collection of state of the art results and references in nonlinear functional analysis demonstrating how the generic approach proves to be very useful in solving many interesting and important problems Nonlinear analysis plays an ever increasing role in theoretical and applied mathematics as well as in many other areas of science such as engineering statistics computer science economics finance and medicine The text may be used as supplementary material for graduate courses in nonlinear functional analysis optimization theory and approximation theory and is a treasure trove for instructors researchers and practitioners in mathematics and in the mathematical sciences Each chapter is self contained proofs are solid and carefully communicated Genericity in Nonlinear Analysis is the first book to systematically present the generic approach to nonlinear analysis Topics presented include convergence analysis of powers and infinite products via the Baire Category Theorem fixed point theory of both single and set valued mappings best approximation problems discrete and continuous descent methods for minimization in a general Banach space and the structure of minimal energy configurations with rational numbers in the Aubry Mather theory *Handbook of Analytic Computational Methods in Applied Mathematics* George Anastassiou,2019-06-03 Working computationally in applied mathematics is the very essence of dealing with real

world problems in science and engineering Approximation theory on the borderline between pure and applied mathematics has always supplied some of the most innovative ideas computational methods and original approaches to many types of problems The f

Numerical Control: Part B Emmanuel Trélat, Enrique Zuazua, 2023-02-20 Numerical Control Part B Volume 24 in the Handbook of Numerical Analysis series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Chapters in this volume include Control problems in the coefficients and the domain for linear elliptic equations Computational approaches for extremal geometric eigenvalue problems Non overlapping domain decomposition in space and time for PDE constrained optimal control problems on networks Feedback Control of Time dependent Nonlinear PDEs with Applications in Fluid Dynamics Stabilization of the Navier Stokes equations Theoretical and numerical aspects Reconstruction algorithms based on Carleman estimates and more Other sections cover Discrete time formulations as time discretization strategies in data assimilation Back and forth iterations Time reversal methods Unbalanced Optimal Transport from Theory to Numerics An ADMM Approach to the Exact and Approximate Controllability of Parabolic Equations Nonlocal balance laws an overview over recent results Numerics and control of conservation laws Numerical approaches for simulation and control of superconducting quantum circuits and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Handbook of Numerical Analysis series Updated release includes the latest information on Numerical Control

Recent Developments in Optimization Theory and Nonlinear Analysis Yair Censor, Simeon Reich, 1997 This volume contains the refereed proceedings of the special session on Optimization and Nonlinear Analysis held at the Joint American Mathematical Society Israel Mathematical Union Meeting which took place at the Hebrew University of Jerusalem in May 1995 Most of the papers in this book originated from the lectures delivered at this special session In addition some participants who didn't present lectures and invited speakers who were unable to attend contributed their work The fields of optimization theory and nonlinear analysis continue to be very active This book presents not only the wide spectrum and diversity of the results but also their manifold connections to other areas such as differential equations functional analysis operator theory calculus of variations numerical analysis and mathematical programming In reading this book one encounters papers that deal for example with convex quasiconvex and generalized convex functions fixed and periodic points fractional linear transformations moduli of convexity monotone operators Morse lemmas Navier Stokes equations nonexpansive maps nonsmooth analysis numerical stability products of projections steepest descent the Leray Schauder degree the turnpike property and variational inequalities

Scientific and Engineering Computations for the 21st Century - Methodologies and Applications M. Mori, T. Mitsui, 2002-12-03 The 20th century saw tremendous achievements and progress in science and technology Undoubtedly computers and computer related technologies acted as one of vital catalysts for accelerating this progress in the latter half of the century The contributions of mathematical sciences have been

equally profound and the synergy between mathematics and computer science has played a key role in accelerating the progress of both fields as well as science and engineering. Mathematical sciences will undoubtedly continue to play this vital role in this new century. In particular, mathematical modeling and numerical simulation will continue to be among the essential methodologies for solving massive and complex problems that arise in science, engineering, and manufacturing. Underpinning this all from a sound theoretical perspective will be numerical algorithms. In recognition of this observation, this volume focuses on the following specific topics: 1. Fundamental numerical algorithms, 2. Applications of numerical algorithms, 3. Emerging technologies. The articles included in this issue by experts on advanced scientific and engineering computations from numerous countries elucidate state-of-the-art achievements in these three topics from various angles and suggest the future directions. Although we cannot hope to cover all the aspects in scientific and engineering computations, we hope that the articles will interest, inform, and inspire members of the science and engineering community. *Frontiers of Fractal Analysis*

Santo Banerjee, A. Gowrisankar, 2022-07-07. The history of describing natural objects using geometry is as old as the advent of science itself, in which traditional shapes are the basis of our intuitive understanding of geometry. However, nature is not restricted to such Euclidean objects, which are only characterized typically by integer dimensions. Hence, the conventional geometric approach cannot meet the requirements of solving or analysing nonlinear problems, which are related with natural phenomena; therefore, the fractal theory has been born, which aims to understand complexity and provide an innovative way to recognize irregularity and complex systems. Although the concepts of fractal geometry have found wide applications in many forefront areas of science, engineering, and societal issues, they also have interesting implications of a more practical nature for the older classical areas of science. Since its discovery, there has been a surge of research activities in using this powerful concept in almost every branch of scientific disciplines to gain deep insights into many unresolved problems. This book includes eight chapters which focus on gathering cutting-edge research and proposing application of fractals, features in both traditional scientific disciplines and in applied fields. **Modeling of Transport Demand**

V.A. Profillidis, G.N. Botzoris, 2018-10-23. *Modeling of Transport Demand* explains the mechanisms of transport demand from analysis to calculation and forecasting. Packed with strategies for forecasting future demand for all transport modes, the book helps readers assess the validity and accuracy of demand forecasts. Forecasting and evaluating transport demand is an essential task of transport professionals and researchers that affects the design, extension, operation, and maintenance of all transport infrastructures. Accurate demand forecasts are necessary for companies and government entities when planning future fleet size, human resource needs, revenues, expenses, and budgets. The operational and planning skills provided in *Modeling of Transport Demand* help readers solve the problems they face on a daily basis. *Modeling of Transport Demand* is written for researchers, professionals, undergraduate and graduate students at every stage in their careers, from novice to expert. The book assists those tasked with constructing qualitative models based on executive judgment, Delphi scenario

writing survey methods or quantitative ones based on statistical time series econometric gravity artificial neural network and fuzzy methods in choosing the most suitable solution for all types of transport applications Presents the most recent and relevant findings and research both at theoretical and practical levels of transport demand Provides a theoretical analysis and formulations that are clearly presented for ease of understanding Covers analysis for all modes of transportation Includes case studies that present the most appropriate formulas and methods for finding solutions and evaluating results

Matrix Theory Mykhaylo Andriychuk, 2023 Matrix Theory Classics and Advances examines matrix theory and its application in solving a series of problems related to natural phenomena and applied science It consists of eleven chapters divided into two sections Section 1 Theory and Progress discusses the classical problems of matrix theory and its contribution to different fields of pure mathematics Section 2 Applications contains the research related to the application of matrix theory in applied science

Dyadic Walsh Analysis from 1924 Onwards Walsh-Gibbs-Butzer Dyadic Differentiation in Science Volume 2 Extensions and Generalizations Radomir Stankovic, Paul Leo Butzer, Ferenc Schipp, William R. Wade, Weiyi Su, Yasushi Endow, Sandor Fridli, Boris I. Golubov, Franz Pichler, 2015-12-29 The second volume of the two volumes book is dedicated to various extensions and generalizations of Dyadic Walsh analysis and related applications Considered are dyadic derivatives on Vilenkin groups and various other Abelian and finite non Abelian groups Since some important results were developed in former Soviet Union and China we provide overviews of former work in these countries Further we present translations of three papers that were initially published in Chinese The presentation continues with chapters written by experts in the area presenting discussions of applications of these results in specific tasks in the area of signal processing and system theory Efficient computing of related differential operators on contemporary hardware including graphics processing units is also considered which makes the methods and techniques of dyadic analysis and generalizations computationally feasible The volume 2 of the book ends with a chapter presenting open problems pointed out by several experts in the area

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