

Introduction To Shape Optimization Theory Approximation And Computation

Selected Topics in Approximation and Computation
Approximation and Computation
Computation and Approximation
Introduction to Shape Optimization
Analysis, Approximation, Optimization: Computation and Applications
Approximation and Computation: A Festschrift in Honor of Walter Gautschi
Complexity and Approximation
Approximation and Computation in Stochastic Programming
Approximate Computation of Expectations
The Best Approximation Method in Computational Mechanics
Principles of Approximate Computations
Imprecise and Approximate Computation
Fast and approximate computation of Laplace and Fourier transforms
Scientific Computation on Mathematical Problems and Conjectures
Approximation and Computation
KWIC Index for Numerical Algebra
Computer Aided Verification
Brain and Mathematical Cognition
ACM Transactions on Programming Languages and Systems
Proceedings of the American Academy of Arts and Sciences
Marek A. Kowalski
Walter Gautschi
Vijay Gupta
J. Haslinger
Marija P. Stanić
R.V.M. Zahar
Ding-Zhu Du
Charles Stein
Theodore V., II
Hromadka
Joseph John Skinner
Swaminathan Natarajan
Ines Melzer
Richard S. Varga
Ramsay Vincent
Michael Zahar
Alston Scott Householder
Arie Gurfinkel
Xinlin Zhou
Association for Computing Machinery
American Academy of Arts and Sciences

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selected topics in approximation and computation is a combination of expositions of basic classical methods of approximation leading to

popular splines and new explicit tools of computation including sinc methods elliptic function methods and positive operator approximation methods it also provides an excellent summary of worst case analysis in information based complexity it relates optimal computational methods with the theory of s numbers and m widths

approximation theory and numerical analysis are central to the creation of accurate computer simulations and mathematical models research in these areas can influence the computational techniques used in a variety of mathematical and computational sciences this collection of contributed chapters dedicated to renowned mathematician gradimir v milovanovi \square represent the recent work of experts in the fields of approximation theory and numerical analysis these invited contributions describe new trends in these important areas of research including theoretic developments new computational algorithms and multidisciplinary applications special features of this volume presents results and approximation methods in various computational settings including polynomial and orthogonal systems analytic functions and differential equations provides a historical overview of approximation theory and many of its subdisciplines contains new results from diverse areas of research spanning mathematics engineering and the computational sciences approximation and computation is intended for mathematicians and researchers focusing on approximation theory and numerical analysis but can also be a valuable resource to students and researchers in the computational and applied sciences

this brief studies recent work conducted on certain exponential type operators and other integral type operators it consists of three chapters the first on exponential type operators the second a study of some modifications of linear positive operators and the third on difference estimates between two operators it will be of interest to students both graduate and undergraduate studying linear positive operators and the area of approximation theory

treats sizing and shape optimization in a comprehensive way covering everything from mathematical theory through computational aspects to industrial applications

this contributed volume is dedicated to academician gradimir v milovanovi \square on his 75th birthday and contains recent results in the fields of approximation theory numerical analysis mathematical analysis optimization theory and various applications of an interdisciplinary character most of these results were presented in person during an international conference analysis approximations and applications aaa2023 organized by the faculty of science university of kragujevac in vrnja \square ka banja serbia june 21 24 2023 this book is intended for researchers and students of mathematics and other computational and applied sciences this book provides surveys of state of the art results in the fields of extremal problems optimization and calculus of variations orthogonal systems and quadrature formulas differential and integral equations integral transforms and operation calculus analytic number theory and special functions real and complex functions sequences series approximations and expansions functional analysis operator theory fixed point theory and iterative

processes as well as in miscellaneous applications

On the sixtieth birthday of Walter Gautschi provided an opportune moment for an international symposium in his honor to recognize his many contributions to mathematics and computer sciences conceived by John Rice and sponsored by Purdue University the conference took place in West Lafayette from December 2 to 5 1993 and was organized around the four main themes representing Professor Gautschi's principal research interests approximation orthogonal polynomials quadrature and special functions thirty eight speakers colleagues co authors research collaborators or doctoral students of Professor Gautschi were invited to present articles at the conference their lectures providing an approximately equal representation of the four disciplines five invited speakers Germund Dahlquist Philip Davis Luigi Gatteschi Werner Rheinboldt and Stephan Ruscheweyh were unable to present their talks because of illness or other commitments although Professors Dahlquist Gatteschi and Ruscheweyh subsequently contributed articles to these proceedings thus the final program contained thirty three technical lectures ten of which were plenary sessions approximately eighty scientists attended the conference and for some sessions in particular Walter's presentation of his entertaining and informative reflections and recollections that number was complemented by many visitors and friends as well as the family of the honoree a surprise visit by Paul Erdos provided one of the highlights of the conference week the ambiance at the symposium was extremely collegial due no doubt to the common academic interests and the personal friendships shared by the participants

This festschrift is in honor of Ker-i-ko Professor in the Stony Brook University USA Ker-i-ko was one of the founding fathers of computational complexity over real numbers and analysis he and Harvey Friedman devised a theoretical model for real number computations by extending the computation of Turing machines he contributed significantly to advancing the theory of structural complexity especially on polynomial time isomorphism instance complexity and relativization of polynomial time hierarchy Ker-i also made many contributions to approximation algorithm theory of combinatorial optimization problems this volume contains 17 contributions in the area of complexity and approximation those articles are authored by researchers over the world including North America Europe and Asia most of them are co authors colleagues friends and students of Ker-i-ko

With the overwhelming use of computers in engineering science and physics the approximate solution of complex mathematical systems of equations is almost commonplace the best approximation method unifies many of the numerical methods used in computational mechanics nevertheless despite the vast quantities of synthetic data there is still some doubt concerning the validity and accuracy of these approximations this publication assists the computer modeller in his search for the best approximation by presenting functional analysis concepts computer programs are provided which can be used by readers with Fortran capability the classes of problems examined include engineering applications applied mathematics numerical analysis and computational mechanics the best approximation method in computational mechanics serves as an introduction to functional analysis and mathematical analysis of

computer modelling algorithms it makes computer modellers aware of already established principles and results assembled in functional analysis

real time systems are now used in a wide variety of applications conventionally they were configured at design to perform a given set of tasks and could not readily adapt to dynamic situations the concept of imprecise and approximate computation has emerged as a promising approach to providing scheduling flexibility and enhanced dependability in dynamic real time systems the concept can be utilized in a wide variety of applications including signal processing machine vision databases networking etc for those who wish to build dynamic real time systems which must deal safely with resource unavailability while continuing to operate leading to situations where computations may not be carried through to completion the techniques of imprecise and approximate computation facilitate the generation of partial results that may enable the system to operate safely and avert catastrophe audience of special interest to researchers may be used as a supplementary text in courses on real time systems

in this thesis we treat the computation of transforms with asymptotically smooth and oscillatory kernels we introduce the discrete laplace transform in a modern form including a generalization to more general kernel functions these more general kernels lead to specific function transforms moreover we treat the butterfly fast fourier transform based on a local error analysis we develop a rigorous error analysis for the whole butterfly scheme in the final part of the thesis the laplace and fourier transform are combined to a fast fourier transform for nonequispaced complex evaluation nodes all theoretical results on accuracy and computational complexity are illustrated by numerical experiments

this book studies the use of scientific computation as a tool in attacking a number of mathematical problems and conjectures in this case scientific computation refers primarily to computations that are carried out with a large number of significant digits for calculations associated with a variety of numerical techniques such as the second remez algorithm in polynomial and rational approximation theory richardson extrapolation of sequences of numbers the accurate finding of zeros of polynomials of large degree and the numerical approximation of integrals by quadrature techniques the goal of this book is not to delve into the specialized field dealing with the creation of robust and reliable software needed to implement these high precision calculations but rather to emphasize the enormous power that existing software brings to the mathematician s arsenal of weapons for attacking mathematical problems and conjectures

this open access book constitutes the proceedings of the 36th international conference on computer aided verification cav 2024 which took place in montreal canada during july 24 27 2024 the primary focus of cav is to extend the frontiers of verification techniques by expanding to new domains such as security quantum computing and machine learning

this book intends to present a series of insights coming from in depth investigation of brain and mathematical cognition in chinese population specifically the book introduces research on the associations among number sense visual form perception and mathematical fluency symbolic and non symbolic mental number line and the role of spatial modeling and logical inference in mathematical problem solving the book summarizes author s previous studies on the involvement of semantic network other than visuospatial network in mathematical cognition the three component mathematical model that comes out of more than 10 years of research on mathematical cognition is introduced the book presents the effect of learning experience on arithmetic related brain system chinese abacus that can be used to eradicate developmental dyscalculia in classroom is briefly discussed special attention in this book is paid to mathematical anxiety and mathematical learning disorders in chinese schoolchildren finally gender differences in mathematical cognition are also reviewed

vol 12 from may 1876 to may 1877 includes researches in telephony by a graham bell

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