

Ostrowski Type Inequalities and Applications in Numerical Integration

**Edited by
Sever S. Dragomir and Themistocles M. Rassias**

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Ostrowski Type Inequalities And Applications In Numerical Integration

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Ostrowski Type Inequalities And Applications In Numerical Integration:

Ostrowski Type Inequalities and Applications in Numerical Integration Sever S. Dragomir, Themistocles M. Rassias, 2002-05-31 It was noted in the preface of the book *Inequalities Involving Functions and Their Integrals and Derivatives* Kluwer Academic Publishers 1991 by D S Mitrinovic J E Pecaric and A M Fink since the writing of the classical book by Hardy Littlewood and Polya 1934 the subject of differential and integral inequalities has grown by about 800% Ten years on we can confidently assert that this growth will increase even more significantly Twenty pages of Chapter XV in the above mentioned book are devoted to integral inequalities involving functions with bounded derivatives or Ostrowski type inequalities This is now itself a special domain of the Theory of Inequalities with many powerful results and a large number of applications in Numerical Integration Probability Theory and Statistics Information Theory and Integral Operator Theory The main aim of the present book jointly written by the members of the Victoria University node of RGMIA Research Group in Mathematical Inequalities and Applications <http://rgmia.vu.edu.au> and Themistocles M Rassias is to present a selected number of results on Ostrowski type inequalities Results for univariate and multivariate real functions and their natural applications in the error analysis of numerical quadrature for both simple and multiple integrals as well as for the Riemann Stieltjes integral are given

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Operator Inequalities of Ostrowski and Trapezoidal Type Silvestru Sever Dragomir, 2011-12-08 *Inequalities of Ostrowski and Trapezoidal Type for Functions of Selfadjoint Operators on Hilbert Spaces* presents recent results concerning Ostrowski and Trapezoidal type inequalities for continuous functions of bounded Selfadjoint operators on complex Hilbert spaces The first chapter recalls some fundamental facts concerning bounded Selfadjoint operators on complex Hilbert spaces The generalized Schwarz s inequality for positive Selfadjoint operators as well as some results for the spectrum of this class

of operators are presented. The author also introduces and explores the fundamental results for polynomials in a linear operator continuous functions of selfadjoint operators that will play a central role throughout the book. The following chapter is devoted to the Ostrowski's type inequalities which provide sharp error estimates in approximating the value of a function by its integral mean and can be used to obtain a priori error bounds for different quadrature rules in approximating the Riemann integral by different Riemann sums. The author also presents recent results extending Ostrowski inequality in various directions for continuous functions of selfadjoint operators in complex Hilbert spaces. The final chapter illustrates recent results obtained in extending trapezoidal type inequality in various directions for continuous functions of selfadjoint operators in complex Hilbert spaces. Applications for mid point inequalities and some elementary functions of operators are also provided. This book is intended for use by researchers in various fields of Linear Operator Theory and Mathematical Inequalities. As well as postgraduate students and scientists applying inequalities in their specific areas.

New Perspectives on the Theory of Inequalities for Integral and Sum Nazia Irshad, Asif R. Khan, Faraz Mehmood, Josip Pečarić, 2022-03-29. This book provides new contributions to the theory of inequalities for integral and sum and includes four chapters. In the first chapter linear inequalities via interpolation polynomials and green functions are discussed. New results related to Popoviciu type linear inequalities via extension of the Montgomery identity, the Taylor formula, Abel, Gontscharoff's interpolation polynomials, Hermite interpolation polynomials and the Fink identity with Green's functions are presented. The second chapter is dedicated to Ostrowski's inequality and results with applications to numerical integration and probability theory. The third chapter deals with results involving functions with nondecreasing increments. Real life applications are discussed as well as and connection of functions with nondecreasing increments together with many important concepts including arithmetic integral mean, Wright convex functions, convex functions, nabla convex functions, Jensen m -convex functions, m -convex functions, m -nabla convex functions, k -monotonic functions, absolutely monotonic functions, completely monotonic functions, Laplace transform and exponentially convex functions by using the finite difference operator of order m . The fourth chapter is mainly based on Popoviciu and Cebaysev Popoviciu type identities and inequalities. In this last chapter the authors present results by using delta and nabla operators of higher order.

Handbook of Functional Equations Themistocles M. Rassias, 2014-11-18. As Richard Bellman has so elegantly stated at the Second International Conference on General Inequalities Oberwolfach 1978: "There are three reasons for the study of inequalities: practical, theoretical, and aesthetic." On the aesthetic aspects he said: "As has been pointed out, beauty is in the eye of the beholder. However, it is generally agreed that certain pieces of music, art, or mathematics are beautiful. There is an elegance to inequalities that makes them very attractive." The content of the Handbook focuses mainly on both old and recent developments on approximate homomorphisms, on a relation between the Hardy-Hilbert and the Gabriel inequality, generalized Hardy-Hilbert type inequalities on multiple weighted Orlicz spaces, half-discrete Hilbert type inequalities on affine mappings, on contractive operators, on multiplicative

Ostrowski and trapezoid inequalities Ostrowski type inequalities for the Riemann Stieltjes integral means and related functional inequalities Weighted Gini means controlled additive relations Szasz Mirakyan operators extremal problems in polynomials and entire functions applications of functional equations to Dirichlet problem for doubly connected domains nonlinear elliptic problems depending on parameters on strongly convex functions as well as applications to some new algorithms for solving general equilibrium problems inequalities for the Fisher's information measures financial networks mathematical models of mechanical fields in media with inclusions and holes

Approximation Theory and Analytic Inequalities Themistocles M. Rassias, 2021-07-21 This contributed volume focuses on various important areas of mathematics in which approximation methods play an essential role It features cutting edge research on a wide spectrum of analytic inequalities with emphasis on differential and integral inequalities in the spirit of functional analysis operator theory nonlinear analysis variational calculus featuring a plethora of applications making this work a valuable resource The reader will be exposed to convexity theory polynomial inequalities extremal problems prediction theory fixed point theory for operators PDEs fractional integral inequalities multidimensional numerical integration Gauss Jacobi and Hermite Hadamard type inequalities Hilbert type inequalities and Ulam's stability of functional equations Contributions have been written by eminent researchers providing up to date information and several results which may be useful to a wide readership including graduate students and researchers working in mathematics physics economics operational research and their interconnections

Analytic Inequalities B.G. Pachpatte, 2012-01-05 For more than a century the study of various types of inequalities has been the focus of great attention by many researchers interested both in the theory and its applications In particular there exists a very rich literature related to the well known Chebyshev Grüss Trapezoid Ostrowski Hadamard and Jensen type inequalities The present monograph is an attempt to organize recent progress related to the above inequalities which we hope will widen the scope of their applications The field to be covered is extremely wide and it is impossible to treat all of these here The material included in the monograph is recent and hard to find in other books It is accessible to any reader with a reasonable background in real analysis and an acquaintance with its related areas All results are presented in an elementary way and the book could also serve as a textbook for an advanced graduate course The book deserves a warm welcome to those who wish to learn the subject and it will also be most valuable as a source of reference in the field It will be invaluable reading for mathematicians and engineers and also for graduate students scientists and scholars wishing to keep abreast of this important area of research

Mathematical Analysis, Approximation Theory and Their Applications Themistocles M. Rassias, Vijay Gupta, 2016-06-03 Designed for graduate students researchers and engineers in mathematics optimization and economics this self contained volume presents theory methods and applications in mathematical analysis and approximation theory Specific topics include approximation of functions by linear positive operators with applications to computer aided geometric design numerical analysis optimization theory and solutions of differential equations Recent and

significant developments in approximation theory special functions and q calculus along with their applications to mathematics engineering and social sciences are discussed and analyzed Each chapter enriches the understanding of current research problems and theories in pure and applied research

Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy Manoj Sahni, José M. Merigó, Ritu Sahni, Rajkumar Verma, 2021-12-11 This book presents new knowledge and recent developments in all aspects of computational techniques mathematical modeling energy systems and applications of fuzzy sets and intelligent computing The book is a collection of best selected research papers presented at the Second International Conference on Mathematical Modeling Computational Intelligence Techniques and Renewable Energy MMCITRE 2021 organized by the Department of Mathematics Pandit Deendayal Petroleum University in association with Forum for Interdisciplinary Mathematics The book provides innovative works of researchers academicians and students in the area of interdisciplinary mathematics statistics computational intelligence and renewable energy

Advanced Inequalities George A Anastassiou, 2010-10-26 This monograph presents univariate and multivariate classical analyses of advanced inequalities This treatise is a culmination of the author's last thirteen years of research work The chapters are self contained and several advanced courses can be taught out of this book Extensive background and motivations are given in each chapter with a comprehensive list of references given at the end The topics covered are wide ranging and diverse Recent advances on Ostrowski type inequalities Opial type inequalities Poincare and Sobolev type inequalities and Hardy Opial type inequalities are examined Works on ordinary and distributional Taylor formulae with estimates for their remainders and applications as well as Chebyshev Grüss Grüss and Comparison of Means inequalities are studied The results presented are mostly optimal that is the inequalities are sharp and attained Applications in many areas of pure and applied mathematics such as mathematical analysis probability ordinary and partial differential equations numerical analysis information theory etc are explored in detail as such this monograph is suitable for researchers and graduate students It will be a useful teaching material at seminars as well as an invaluable reference source in all science libraries

Mathematical Analysis in Interdisciplinary Research Ioannis N. Parasidis, Efthimios Providas, Themistocles M. Rassias, 2022-03-10 This contributed volume provides an extensive account of research and expository papers in a broad domain of mathematical analysis and its various applications to a multitude of fields Presenting the state of the art knowledge in a wide range of topics the book will be useful to graduate students and researchers in theoretical and applicable interdisciplinary research The focus is on several subjects including optimal control problems optimal maintenance of communication networks optimal emergency evacuation with uncertainty cooperative and noncooperative partial differential systems variational inequalities and general equilibrium models anisotropic elasticity and harmonic functions nonlinear stochastic differential equations operator equations max product operators of Kantorovich type perturbations of operators integral operators dynamical systems involving maximal monotone operators the three body

problem deceptive systems hyperbolic equations strongly generalized preinvex functions Dirichlet characters probability distribution functions applied statistics integral inequalities generalized convexity global hyperbolicity of spacetimes Douglas Rachford methods fixed point problems the general Rodrigues problem Banach algebras affine group Gibbs semigroup relator spaces sparse data representation Meier Keeler sequential contractions hybrid contractions and polynomial equations Some of the works published within this volume provide as well guidelines for further research and proposals for new directions and open problems

Analysis, Geometry, Nonlinear Optimization And Applications Panos M Pardalos, Themistocles M Rassias, 2023-03-20 This volume features an extensive account of both research and expository papers in a wide area of engineering and mathematics and its various applications Topics treated within this book include optimization of control points game theory equilibrium points algorithms Cartan matrices integral inequalities Volterra integro differential equations Caristi Kirk theorems Laplace type integral operators etc This useful reference text benefits graduate students beginning research engineers and mathematicians as well as established researchers in these domains

Integral Inequalities and Generalized Convexity Shashi Kant Mishra, Nidhi Sharma, Jaya Bisht, 2023-09-18 The book covers several new research findings in the area of generalized convexity and integral inequalities Integral inequalities using various type of generalized convex functions are applicable in many branches of mathematics such as mathematical analysis fractional calculus and discrete fractional calculus The book contains integral inequalities of Hermite Hadamard type Hermite Hadamard Fejer type and majorization type for the generalized strongly convex functions It presents Hermite Hadamard type inequalities for functions defined on Time scales Further it provides the generalization and extensions of the concept of preinvexity for interval valued functions and stochastic processes and give Hermite Hadamard type and Ostrowski type inequalities for these functions These integral inequalities are utilized in numerous areas for the boundedness of generalized convex functions Features Covers Interval valued calculus Time scale calculus Stochastic processes all in one single book Numerous examples to validate results Provides an overview of the current state of integral inequalities and convexity for a much wider audience including practitioners Applications of some special means of real numbers are also discussed The book is ideal for anyone teaching or attending courses in integral inequalities along with researchers in this area

Optimization and Related Topics Alexander M. Rubinov, Barney M. Glover, 2013-04-17 This volume contains in part a selection of papers presented at the sixth Australian Optimization Day Miniconference Ballarat 16 July 1999 and the Special Sessions on Nonlinear Dynamics and Optimization and Operations Research Methods and Applications which were held in Melbourne July 11 15 1999 as a part of the Joint Meeting of the American Mathematical Society and Australian Mathematical Society The editors have strived to present both contributed papers and survey style papers as a more interesting mix for readers Some participants from the meetings mentioned above have responded to this approach by preparing survey and semi survey papers based on presented lectures Contributed papers which contain new and interesting results are also

included The fields of the presented papers are very large as demonstrated by the following selection of key words from selected papers in this volume optimal control stochastic optimal control MATLAB economic models implicit constraints Bellman principle Markov process decision making under uncertainty risk aversion dynamic programming optimal value function emergent computation complexity traveling salesman problem signal estimation neural networks time congestion teletraffic gap functions nonsmooth variational inequalities derivative free algo rithm Newton s method auxiliary function generalized penalty function modified Lagrange func tion convexity quasiconvexity abstract convexity Inequalities

Shigeru Furuichi,2020-01-15 Inequalities appear in various fields of natural science and engineering Classical inequalities are still being improved and or generalized by many researchers That is inequalities have been actively studied by mathematicians In this book we selected the papers that were published as the Special Issue Inequalities in the journal Mathematics MDPI publisher They were ordered by similar topics for readers convenience and to give new and interesting results in mathematical inequalities such as the improvements in famous inequalities the results of Frame theory the coefficient inequalities of functions and the kind of convex functions used for Hermite Hadamard inequalities The editor believes that the contents of this book will be useful to study the latest results for researchers of this field **Mathematical Inequalities**

Pietro Cerone,Silvestru Sever Dragomir,2010-12-01 Drawing on the authors research work from the last ten years Mathematical Inequalities A Perspective gives readers a different viewpoint of the field It discusses the importance of various mathematical inequalities in contemporary mathematics and how these inequalities are used in different applications such as scientific modeling The authors 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 **Probabilistic Inequalities** George A Anastassiou,2009-08-11 In this monograph the author presents univariate and multivariate probabilistic inequalities with coverage on basic probabilistic entities like expectation variance moment generating function and covariance These are built on the recent classical form of real analysis inequalities which are also discussed in full details This treatise is the culmination and crystallization of the author s last two decades of research work in related discipline Each of the chapters is self contained and a few advanced courses can be taught out of this book Extensive background and motivations for specific topics are given in each chapter A very extensive list of references is also provided at the end The topics covered in this unique book are wide ranging and diverse The opening chapters examine the probabilistic Ostrowski type inequalities and various related ones as well as the largely discusses about the Grothendieck type probabilistic inequalities The book is also about inequalities in information theory and the Csiszar s f Divergence between probability measures A great section of the book is also devoted to the applications in various directions

of Geometry Moment Theory Also the development of the Gr ss type and Chebyshev Gr ss type inequalities for Stieltjes integrals and the applications in probability are explored in detail The final chapters discuss the important real analysis methods with potential applications to stochastics The book will be of interest to researchers and graduate students and it is also seen as an invaluable reference book to be acquired by all science libraries as well as seminars that conduct discussions on related topics

4th International Conference on Computational Mathematics and Engineering Sciences (CMES-2019) Hemen Dutta,Zakia Hammouch,Hasan Bulut,Haci Mehmet Baskonus,2020-01-10 This book gathers original research papers presented at the 4th International Conference on Computational Mathematics and Engineering Sciences held at Akdeniz University Antalya Turkey on 20 22 April 2019 Focusing on computational methods in science mathematical tools applied to engineering mathematical modeling and new aspects of analysis the book discusses the applications of mathematical modelling in areas such as health science engineering computer science social science and economics It also describes a wide variety of analytical computational and numerical methods The conference aimed to foster cooperation between students and researchers in the areas of computational mathematics and engineering sciences and provide a platform for them to share significant research ideas This book is a valuable resource for graduate students researchers and educators interested in the mathematical tools and techniques required for solving various problems arising in science and engineering and understanding new methods and uses of mathematical analysis

Advanced Mathematical Analysis and its Applications Pradip Debnath,Delfim F. M. Torres,Yeol Je Cho,2023-10-17 Advanced Mathematical Analysis and its Applications presents state of the art developments in mathematical analysis through new and original contributions and surveys with a particular emphasis on applications in engineering and mathematical sciences New research directions are indicated in each of the chapters and while this book is meant primarily for graduate students there is content that will be equally useful and stimulating for faculty and researchers The readers of this book will require minimum knowledge of real complex and functional analysis and topology Features Suitable as a reference for graduate students researchers and faculty Contains the most up to date developments at the time of writing

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