

Frank R. S. Spigler

# Approximation Theory Using Positive Linear Operators

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**Francesco Altomare, Michele Campiti**



## **Approximation Theory Using Positive Linear Operators:**

**Approximation Theory Using Positive Linear Operators** Radu Paltanea, 2012-12-06 We deal in this work with quantitative results in the pointwise approximation of functions by positive linear functionals and operators One of the main objectives is to obtain estimates for the degree of approximation in terms of various types of second order moduli of continuity In the category of second order moduli we include both classical and newly introduced moduli Particular attention is paid to optimizing the constants appearing in such estimates In the last decades the study of linear positive operators with the aid of second order moduli was intensive thanks to their refinements in characterization of the smoothness of functions As promoters of this direction of research we mention Yu Brudnyi G Freud and J Petree Our approach is more akin to the approach taken by H Gonska who obtained the first general estimates for second order moduli with precise constants and with free parameters Two new methods will be presented The first one based on decomposition of functionals and the use of moments can be applied to diverse types of moduli and leads to simple estimates The second method gives sufficient conditions for obtaining absolute optimal constants The benefits of these more direct methods compared with the known method based on  $K$  functionals consist in the improvement and even the optimization of the constants and in the generalization of the framework

**Approximation Theory Using Positive Linear Operators** Radu Paltanea, 2011-09-28 Offers an examination of the multivariate approximation case Special focus on the Bernstein operators including applications and on two new classes of Bernstein type operators Many general estimates leaving room for future applications e.g the B spline case Extensions to approximation operators acting on spaces of vector functions Historical perspective in the form of previous significant results

**Approximation with Positive Linear Operators and Linear Combinations** Vijay Gupta, Gancho Tachev, 2017-06-27 This book presents a systematic overview of approximation by linear combinations of positive linear operators a useful tool used to increase the order of approximation Fundamental and recent results from the past decade are described with their corresponding proofs The volume consists of eight chapters that provide detailed insight into the representation of monomials of the operators  $L_n$  direct and inverse estimates for a broad class of positive linear operators and case studies involving finite and unbounded intervals of real and complex functions Strong converse inequalities of Type A in terminology of Ditzian Ivanov for linear combinations of Bernstein and Bernstein Kantorovich operators and various Voronovskaja type estimates for some linear combinations are analyzed and explained Graduate students and researchers in approximation theory will find the list of open problems in approximation of linear combinations useful The book serves as a reference for graduate and postgraduate courses as well as a basis for future study and development

**Moments of Linear Positive Operators and Approximation** Vijay Gupta, Michael Th. Rassias, 2019-05-25 This book is a valuable resource for Graduate students and researchers interested in current techniques and methods within the theory of moments in linear positive operators and approximation theory Moments are essential to the convergence of a

sequence of linear positive operators Several methods are examined to determine moments including direct calculations recurrence relations and the application of hypergeometric series A collection of operators in the theory of approximation are investigated through their moments and a variety of results are surveyed with fundamental theories and recent developments Detailed examples are included to assist readers understand vital theories and potential applications

*Approximation Theory* George A. Anastassiou, Sorin Gal, 1999-12-22 We study in Part I of this monograph the computational aspect of almost all moduli of continuity over wide classes of functions exploiting some of their convexity properties To our knowledge it is the first time the entire calculus of moduli of smoothness has been included in a book We then present numerous applications of Approximation Theory giving exact values of errors in explicit forms The K functional method is systematically avoided since it produces nonexplicit constants All other related books so far have allocated very little space to the computational aspect of moduli of smoothness In Part II we study examine the Global Smoothness Preservation Property GSPP for almost all known linear approximation operators of approximation theory including trigonometric operators and algebraic interpolation operators of Lagrange Hermite Fejer and Shepard type also operators of stochastic type convolution type wavelet type integral operators and singular integral operators etc We present also a sufficient general theory for GSPP to hold true We provide a great variety of applications of GSPP to Approximation Theory and many other fields of mathematics such as Functional analysis and outside of mathematics fields such as computer aided geometric design CAGD Most of the time GSPP methods are optimal Various moduli of smoothness are intensively involved in Part II Therefore methods from Part I can be used to calculate exactly the error of global smoothness preservation It is the first time in the literature that a book has studied GSPP

*Korovkin-type Approximation Theory and Its Applications* Francesco Altomare, Michele Campiti, 1994 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics In addition it can serve as a guide for lectures and seminars on a graduate level The series de Gruyter Studies in Mathematics was founded ca 35 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard written by scholars with an international reputation presenting current fields of research in pure and applied mathematics While the editorial board of the Studies has changed with the years the aspirations of the Studies are unchanged In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever not least to pave the way for the next generation of mathematicians In this sense the editorial board and the publisher of the Studies are devoted to continue the Studies as a service to the mathematical community Please submit any book proposals to Niels Jacob Titles in planning include Flavia Smarazzo and Alberto Tesi Measure Theory Radon Measures Young Measures and

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summability and approximation theory One of the most active areas of research in summability theory is the concept of statistical convergence which is a generalization of the familiar and widely investigated concept of convergence of real and complex sequences and it has been used in Fourier analysis probability theory approximation theory and in other branches of mathematics The theory of approximation deals with how functions can best be approximated with simpler functions In the study of approximation of functions by linear positive operators Bernstein polynomials play a highly significant role due to their simple and useful structure And during the last few decades different types of research have been dedicated to improving the rate of convergence and decreasing the error of approximation

*On Positive Linear Operators* Farzaneh Jannat, 2019 Approximation theory received much attention in the last century and an intriguing area in this field is positive linear operators This thesis is a literature survey on positive linear operators We discuss some of the well known examples of positive linear operators Preserving  $k$  monotonicity by positive linear operators is another interesting topic in this area We are interested if  $L_n f(x)$  is  $k$  monotone whenever function  $f$  is  $k$  monotone For a sequence of positive linear operators  $L_n f(x)$  it is a natural question if this sequence converges to  $f(x)$  and how fast is this convergence We study the saturation of these operators Usually there is a relation between the rate of convergence and the smoothness of the function being approximated If increasing smoothness of functions does not result in the increase of the degree of approximation this phenomenon is called saturation We discuss iteration of general positive linear operators and give numerical examples

Recent Advances in Constructive Approximation Theory Vijay Gupta, Themistocles M. Rassias, P. N. Agrawal, Ana Maria Acu, 2018-08-10 This book presents an in depth study on advances in constructive approximation theory with recent problems on linear positive operators State of the art research in constructive approximation is treated with extensions to approximation results on linear positive operators in a post quantum and bivariate setting Methods techniques and problems in approximation theory are demonstrated with applications to optimization physics and biology Graduate students research scientists and engineers working in mathematics physics and industry will broaden their understanding of operators essential to pure and applied mathematics Topics discussed include discrete operators quantitative estimates post quantum calculus integral operators univariate Grüss type inequalities for positive linear operators bivariate operators of discrete and integral type convergence of GBS operators

Quantitative Estimates for Certain Positive Linear Operators Gunjan Agarwal, 2024-01-28 The convergence behaviour of linear positive operators has been a prominent topic and many scholars have investigated it using a variety of methodologies for exactness Approximation theory is primarily concerned with the investigation of several direct results such as the asymptotic formula point wise convergence and error estimates in simultaneous and ordinary approximation These findings are necessary from a convergence standpoint Dunham Jackson 103 proved algebraic and trigonometric polynomial direct theorems Professor Edmund Georg Hermann Landau Jackson's supervisor was the one who came up with the Big O and small o symbols The asymptotic behaviour of a function is represented by these symbols Because

a function's rate of growth is known as its order the letter  $O$  or  $o$  is utilised As a result the order of approximation is represented by these symbols The crucial theorem proved by Weierstrass in 1885 made it possible to study some sorts of complicated functions by a simpler function with a suitable rate of approximation Thus linear positive operator approximation theory is based mostly on the Weierstrass approximation theorem which states that every continuous function defined on a closed and bounded interval may be uniformly approximated by a polynomial Polynomials are among the most basic functions and computers can instantly evaluate polynomials The Bernstein polynomials are used in the most typical proof of this well known theorem Additionally Borislav Dechev Boyanov [33] was one of the pioneers in the field of mathematics to demonstrate the presence and originality of answers to numerous issues pertaining to approximation theory Academician Blagovest Hristov Sendov who served as his supervisor visited Moscow State University in the early 1960s as new interesting fields in approximation theory began to emerge During this time Sergei Natanovich Bernstein was still engaged in mathematical studies

*Linear Operators and Approximation Theory* Pavel Petrovich Korovkin, 1960     [Approximation Theory IV](#) C. K. Chui, Larry L. Schumaker, J. D. Ward, 1983     [On Linear Positive Operators in Approximation Theory](#) Frans Schurer (Mathématicien.), 1965     **Approximation Theory VI** C. K. Chui, Larry L. Schumaker, J. D. Ward, 1989     *The Approximation of Continuous Functions by Positive Linear Operators* Ronald A. DeVore, 2006-11-15     **Успехи Математических Наук**, 2002     *Approximation Theory, Wavelets and Applications* S.P. Singh, 2013-03-09

Approximation Theory Wavelets and Applications draws together the latest developments in the subject provides directions for future research and paves the way for collaborative research The main topics covered include constructive multivariate approximation theory of splines spline wavelets polynomial and trigonometric wavelets interpolation theory polynomial and rational approximation Among the scientific applications were denoising using wavelets including the denoising of speech and images and signal and digital image processing In the area of the approximation of functions the main topics include multivariate interpolation quasi interpolation polynomial approximation with weights knot removal for scattered data convergence theorems in Padé theory Lyapunov theory in approximation Neville elimination as applied to shape preserving presentation of curves interpolating positive linear operators interpolation from a convex subset of Hilbert space and interpolation on the triangle and simplex Wavelet theory is growing extremely rapidly and has applications which will interest readers in the physical medical engineering and social sciences

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