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Nonlinear analysis by applying best approximation method in p -vector spaces

George Xianzhi Yuan^{1,2,3,4*}

This paper is dedicated to Professor Shih-sen Chang on his 90th Birthday

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Abstract

It is known that the class of p -vector spaces ($0 < p \leq 1$) is an important generalization of the usual norm spaces with rich topological and geometrical structure, but most tools and general principles with nature in nonlinearity have not been developed yet. The goal of this paper is to develop some useful tools in nonlinear analysis by applying the best approximation approach for the classes of 1-set contractive set-valued mappings in p -vector spaces. In particular, we first develop general fixed point theorems of compact (single-valued) continuous mappings for closed p -convex subsets, which also provide an answer to Schauder's conjecture of 1930s in the affirmative way under the setting of topological vector spaces for $0 < p \leq 1$. Then one best approximation result for upper semicontinuous and 1-set contractive set-valued mappings is established, which is used as a useful tool to establish fixed points of nonself set-valued mappings with either inward or outward set conditions and related various boundary conditions under the framework of locally p -convex spaces for $0 < p \leq 1$. In addition, based on the framework for the study of nonlinear analysis obtained for set-valued mappings with closed p -convex values in this paper, we conclude that development of nonlinear analysis and related tools for single-valued mappings in locally p -convex spaces for $0 < p \leq 1$ seems even more important, and can be done by the approach established in this paper.

MSC: 47H04; 47H10; 46A16; 46A55; 49J27; 49J35; 52A07; 54C60; 54H25; 55M20

Keywords: Nonlinear analysis; Best approximation; Fixed points; Schauder conjecture; p -convex p -vector space; Locally p -convex space; Measure of noncompactness; 1-set contractive mapping; Leray–Schauder alternative; Nonexpansive mapping; p -inward and p -outward set; Opial condition; Demiclosedness principle

1 Introduction

It is known that the class of p -seminorm spaces ($0 < p \leq 1$) is an important generalization of the usual normed spaces with rich topological and geometrical structures, and related study has received a lot of attention (e.g., see Agarwal et al. [1], Alghamdi et al. [5], Balaj [8], Balachandran [7], Bayoumi [9], Bayoumi et al. [10], Bernátes and Pena [12], Ding [31], Ennassik and Taoudi [34], Ennassik et al. [33], Gal and Goldstein [40], Gholizadeh et al. [41],

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Computing Methods I. S. Berezin, N. P. Zhidkov, 2014-05-16 Computing Methods Volume I generalizes and details the methods involved in computer mathematics The book has been developed in two volumes Volume I contains Chapters 1 to 5 and Volume II encompasses Chapters 6 to 10 The first chapter in this volume deals with operation on approximate quantities while the second chapter talks about the theory of interpolation and certain applications Chapter 3 covers numerical differentiation and integration The last two chapters discuss approximation and least square approximations The text will be of great interest to college students majoring in mathematics or computer science Numerical Computations: Theory and

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memory requirements Other papers discuss dynamic programming invariant imbedding quasilinearization Hilbert space and the computational aspects of a time optimal control problem The collection is suitable for computer programmers engineers designers of industrial processes and researchers involved in aviation or control systems technology

Approximate Computing Techniques Alberto Bosio, Daniel Ménard, Olivier Sentieys, 2022-06-10 This book serves as a single source reference to the latest advances in Approximate Computing AxC a promising technique for increasing performance or reducing the cost and power consumption of a computing system The authors discuss the different AxC design and validation techniques and their integration They also describe real AxC applications spanning from mobile to high performance computing and also safety critical applications

Computational Partial Differential Equations Hans Petter Langtangen, 2013-04-17 During the last decades there has been a tremendous advancement of computer hardware numerical algorithms and scientific software Engineers and scientists are now equipped with tools that make it possible to explore real world applications of high complexity by means of mathematical models and computer simulation Experimentation based on numerical simulation has become fundamental in engineering and many of the traditional sciences A common feature of mathematical models in physics geology astrophysics mechanics geophysics as well as in most engineering disciplines is the appearance of systems of partial differential equations PDEs This text aims at equipping the reader with tools and skills for formulating solution methods for PDEs and producing associated running code Successful problem solving by means of mathematical models in science and engineering often demands a synthesis of knowledge from several fields Besides the physical application itself one must master the tools of mathematical modeling numerical methods as well as software design and implementation In addition physical experiments or field measurements might play an important role in the derivation and the validation of models This book is written in the spirit of computational sciences as interdisciplinary activities Although it would be attractive to integrate subjects like mathematics physics numerics and software in book form few readers would have the necessary broad background to approach such a text

Numerical Methods in Scientific Computing: Germund Dahlquist, Åke Björck, 2008-09-04 This work addresses the increasingly important role of numerical methods in science and engineering It combines traditional and well developed topics with other material such as interval arithmetic elementary functions operator series convergence acceleration and continued fractions

Tensor Numerical Methods in Scientific Computing Boris N. Khoromskij, 2018-06-11 The most difficult computational problems nowadays are those of higher dimensions This research monograph offers an introduction to tensor numerical methods designed for the solution of the multidimensional problems in scientific computing These methods are based on the rank structured approximation of multivariate functions and operators by using the appropriate tensor formats The old and new rank structured tensor formats are investigated We discuss in detail the novel quantized tensor approximation method QTT which provides function operator calculus in higher dimensions in logarithmic complexity

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with current issues and applications of related topics As such it provides valuable information for professors researchers and graduate students in the area of soft computing techniques and applications

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Rough Sets, Fuzzy Sets, Data Mining, and Granular Computing Guoyin Wang,2003-05-08 This book constitutes the refereed proceedings of the 9th International Conference on Rough Sets Fuzzy Sets Data Mining and Granular Computing RSFDGrC 2003 held in Chongqing China in May 2003 The 39 revised full papers and 75 revised short papers presented together with 2 invited keynote papers and 11 invited plenary papers were carefully reviewed and selected from a total of 245 submissions The papers are organized in topical sections on rough sets foundations and methods fuzzy sets and systems granular computing neural networks and evolutionary computing data mining machine learning and pattern recognition logics and reasoning multi agent systems and Web intelligence and intelligent systems

Large-Scale Scientific Computing Ivan Lirkov,Svetozar Margenov,2022-03-17 This book constitutes revised selected papers from the 13th International Conference on Large Scale Scientific Computing LSSC 23021 which was held in Sozopol Bulgaria during June 7 11 2021 The 60 papers included in this book were carefully reviewed and selected from a total of 73 submissions The volume also includes two invited talks in full paper length The papers were organized in topical sections as follows Fractional diffusion problems numerical methods algorithms and applications large scale models numerical methods parallel computations and applications application of metaheuristics to large scale problems advanced discretizations and solvers for coupled systems of partial differential equations optimal control of ODEs PDEs and applications tensor and matrix factorization for big data analysis machine learning and model order reduction for large scale predictive simulations HPC and big data algorithms and applications and contributed papers

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