



# Nonlinear variational inequalities with variable regular bilateral constraints in variable domains

Alexander A. Kovalevsky

**Abstract.** We establish conditions for the convergence of solutions of variational inequalities with operators  $\mathcal{A}_s: W^{1,p}(\Omega_s) \rightarrow (W^{1,p}(\Omega_s))^*$  in divergence form and constraint sets  $V_s \subset W^{1,p}(\Omega_s)$  defined by lower constraint functions  $\varphi_s \in W^{1,p}(\Omega_s)$  and upper constraint functions  $\psi_s \in W^{1,p}(\Omega_s)$ , where  $\{\Omega_s\}$  is a sequence of domains in  $\mathbb{R}^n$  contained in a bounded domain  $\Omega \subset \mathbb{R}^n$  ( $n \geq 2$ ) and  $p > 1$ . These conditions include some requirements on the involved domains, operators, and constraints. In particular, we assume that the operators  $\mathcal{A}_s$  G-converge to an operator  $\mathcal{A}: W^{1,p}(\Omega) \rightarrow (W^{1,p}(\Omega))^*$  and  $\text{meas}\{\psi_s - \varphi_s < \alpha\} \rightarrow 0$  for a positive measurable function  $\alpha: \Omega \rightarrow \mathbb{R}$ .

**Mathematics Subject Classification.** 47J20, 49J40, 49J45.

**Keywords.** Nonlinear variational inequality, Regular bilateral constraints, G-Convergence of operators, Convergence of solutions, Variable domains.

## 1. Introduction

In this paper, we consider a sequence of continuous strictly monotone coercive operators  $\mathcal{A}_s: W^{1,p}(\Omega_s) \rightarrow (W^{1,p}(\Omega_s))^*$  in divergence form, where  $\{\Omega_s\}$  is a sequence of domains in  $\mathbb{R}^n$  contained in a bounded domain  $\Omega \subset \mathbb{R}^n$  ( $n \geq 2$ ) and  $p > 1$ . Along with this, we consider the sequence of sets

$$V_s = \{v \in W^{1,p}(\Omega_s): \varphi_s \leq v \leq \psi_s \text{ a.e. in } \Omega_s\}, \quad (1.1)$$

where  $\varphi_s$  and  $\psi_s$  are functions in the space  $W^{1,p}(\Omega_s)$  such that  $\varphi_s \leq \psi_s$  a.e. in  $\Omega_s$ . We establish conditions for the convergence of solutions  $u_s \in V_s$  of variational inequalities

$$\forall v \in V_s, \quad \langle \mathcal{A}_s u_s - f_s, u_s - v \rangle \leq 0, \quad (1.2)$$

# Nonlinear Analytical And Applications To Abstract Economics And Variational Inequalities

**G Z Liu**



## **Nonlinear Analytical And Applications To Abstract Economics And Variational Inequalities:**

*KKM Theory and Applications in Nonlinear Analysis* George Xian-Zhi Yuan, 1999-02-09 This reference provides a lucid introduction to the principles and applications of Knaster Kuratowski Mazurkiewicz KKM theory and explores related topics in nonlinear set valued analysis

**Set Valued Mappings with Applications in Nonlinear Analysis** Donal O'Regan, Ravi P. Agarwal, 2002-09-26 Interest in the mathematical analysis of multi functions has increased rapidly over the past thirty years partly because of its applications in fields such as biology control theory and optimization economics game theory and physics Set Valued Mappings with Applications to Nonlinear Analysis contains 29 research articles from leading mathematicians in this area The contributors were invited to submit papers on topics such as integral inclusion ordinary and partial differential inclusions fixed point theorems boundary value problems and optimal control This collection will be of interest to researchers in analysis and will pave the way for the creation of new mathematics in the future

*Variational Analysis and Applications* Boris S. Mordukhovich, 2018-08-02 Building on fundamental results in variational analysis this monograph presents new and recent developments in the field as well as selected applications Accessible to a broad spectrum of potential readers the main material is presented in finite dimensional spaces Infinite dimensional developments are discussed at the end of each chapter with comprehensive commentaries which emphasize the essence of major results track the genesis of ideas provide historical comments and illuminate challenging open questions and directions for future research The first half of the book Chapters 1 6 gives a systematic exposition of key concepts and facts containing basic material as well as some recent and new developments These first chapters are particularly accessible to masters doctoral students taking courses in modern optimization variational analysis applied analysis variational inequalities and variational methods The reader s development of skills will be facilitated as they work through each or a portion of the multitude of exercises of varying levels Additionally the reader may find hints and references to more difficult exercises and are encouraged to receive further inspiration from the gems in chapter commentaries Chapters 7 10 focus on recent results and applications of variational analysis to advanced problems in modern optimization theory including its hierarchical and multiobjective aspects as well as microeconomics and related areas It will be of great use to researchers and professionals in applied and behavioral sciences and engineering

*Optimization: Techniques And Applications (Icota '95)* G Z Liu, 1995-09-01 With the advent of powerful computers and novel mathematical programming techniques the multidisciplinary field of optimization has advanced to the stage that quite complicated systems can be addressed The conference was organized to provide a platform for the exchange of new ideas and information and for identifying needs for future research The contributions covered both theoretical techniques and a rich variety of case studies to which optimization can be usefully applied

**Duality Principles in Nonconvex Systems** David Yang Gao, 2013-03-09 Motivated by practical problems in engineering and physics drawing on a wide range of applied mathematical disciplines this book is

the first to provide within a unified framework a self contained comprehensive mathematical theory of duality for general non convex non smooth systems with emphasis on methods and applications in engineering mechanics Topics covered include the classical minimax mono duality of convex static equilibria the beautiful bi duality in dynamical systems the interesting tri duality in non convex problems and the complicated multi duality in general canonical systems A potentially powerful sequential canonical dual transformation method for solving fully nonlinear problems is developed heuristically and illustrated by use of many interesting examples as well as extensive applications in a wide variety of nonlinear systems including differential equations variational problems and inequalities constrained global optimization multi well phase transitions non smooth post bifurcation large deformation mechanics structural limit analysis differential geometry and non convex dynamical systems With exceptionally coherent and lucid exposition the work fills a big gap between the mathematical and engineering sciences It shows how to use formal language and duality methods to model natural phenomena to construct intrinsic frameworks in different fields and to provide ideas concepts and powerful methods for solving non convex non smooth problems arising naturally in engineering and science Much of the book contains material that is new both in its manner of presentation and in its research development A self contained appendix provides some necessary background from elementary functional analysis Audience The book will be a valuable resource for students and researchers in applied mathematics physics mechanics and engineering The whole volume or selected chapters can also be recommended as a text for both senior undergraduate and graduate courses in applied mathematics mechanics general engineering science and other areas in which the notions of optimization and variational methods are employed

*Topological Methods for Set-valued Nonlinear Analysis* Enayet Ullah Tarafdar, Mohammad Showkat Rahim Chowdhury, 2008 This book provides a comprehensive overview of the authors pioneering contributions to nonlinear set valued analysis by topological methods The coverage includes fixed point theory degree theory the KKM principle variational inequality theory the Nash equilibrium point in mathematical economics the Pareto optimum in optimization and applications to best approximation theory partial equations and boundary value problems Self contained and unified in presentation the book considers the existence of equilibrium points of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities It also provides the latest developments in KKM theory and degree theory for nonlinear set valued mappings Sample Chapter s Chapter 1 Introduction 162 KB Contents Contraction Mappings Some Fixed Point Theorems in Partial Ordered Sets Topological Fixed Point Theorems Variational and Quasivariational Inequalities in Topological Vector Spaces and Generalized Games Best Approximation and Fixed Point Theorems for Set Valued Mappings in Topological Vector Spaces Degree Theory for Set Valued Mappings Nonexpansive Types of Mappings and Fixed Point Theorems in Locally Convex Topological Vector Spaces Readership Graduate students and researchers in mathematics economics finance and engineering The Study of Minimax Inequalities and Applications to Economics and Variational

Inequalities George Xian-Zhi Yuan, 1998 This book provides a unified treatment for the study of the existence of equilibria of abstract economics in topological vector spaces from the viewpoint of Ky Fan minimax inequalities which strongly depend on his infinite dimensional version of the classical Knaster Kuratowski and Mazurkiewicz Lemma KKM Lemma in 1961 Studied are applications of general system versions of minimax inequalities and generalized quasi variational inequalities and random abstract economies and its applications to the system of random quasi variational inequalities are given

**Variational Analysis and Applications** Franco Giannessi, Antonino Maugeri, 2007-03-06 This Volume contains the refereed papers presented at the 38th Conference of the School of Mathematics G Stampacchia of the E Majorana Centre for Scientific Culture of Erice Sicily held in Memory of G Stampacchia and J L Lions in the period June 20 July 2003 The presence of participants from Countries has greatly contributed to the success of the meeting The School of Mathematics was dedicated to Stampacchia not only for his great mathematical achievements but also because He founded it The core of the Conference has been the various features of the Variational Analysis and their motivations and applications to concrete problems Variational Analysis encompasses a large area of modern Mathematics such as the classical Calculus of Variations the theories of perturbation approximation subgradient subderivates set convergence and Variational Inequalities and all these topics have been deeply and intensely dealt during the Conference In particular Variational Inequalities which have been initiated by Stampacchia inspired by Signorini Problem and the related work of G Fichera have offered a very great possibility of applications to several fundamental problems of Mathematical Physics Engineering Statistics and Economics The pioneer work of Stampacchia and Lions can be considered as the basic kernel around which Variational Analysis is going to be outlined and constructed The Conference has dealt with both finite and infinite dimensional analysis showing that to carry on these two aspects disjointly is unsuitable for both

**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

**Vector Variational Inequalities and Vector Optimization** Qamrul Hasan Ansari, Elisabeth Köbis, Jen-Chih Yao, 2017-10-31 This book presents the mathematical theory of vector variational inequalities and their relations with vector optimization problems It is the first ever book to introduce well posedness and sensitivity analysis for vector equilibrium problems The first chapter provides basic notations and results from the areas of convex analysis functional analysis set valued analysis and fixed point theory for set valued maps as well as a brief introduction to variational inequalities and equilibrium problems Chapter 2 presents an overview of analysis over cones including continuity and convexity of vector valued functions The book then shifts its focus to solution concepts and classical methods in vector optimization It describes the formulation of vector variational inequalities and their applications to vector optimization followed by separate chapters on linear scalarization nonsmooth and generalized vector variational inequalities Lastly the book introduces readers to vector equilibrium problems and generalized vector equilibrium problems Written in an illustrative and reader friendly way the book offers a valuable resource for all researchers whose work involves optimization and vector optimization

**Advances in Variational and Hemivariational Inequalities** Weimin Han, Stanisław Migórski, Mircea Sofonea, 2015-03-02 This volume is comprised of articles providing new results on variational and hemivariational inequalities with applications to Contact Mechanics unavailable from other sources The book will be of particular interest to graduate students and young researchers in applied and pure mathematics civil aeronautical and mechanical engineering and can be used as supplementary reading material for advanced specialized courses in mathematical modeling New results on well posedness to stationary and evolutionary inequalities and their rigorous proofs are of particular interest to readers In addition to results on modeling and abstract problems the book contains new results on the numerical methods for variational and hemivariational inequalities

**Inequality Theory and Applications** Yeol Je Cho, Jong Kyu Kim, Sever Silvestru Dragomir, 2007 The aim of this volume is to introduce and exchange recent new topics on the areas of inequality theory and their applications dealing in pure and applied mathematics

**An Introduction to Nonlinear Analysis: Applications** Zdzisław Denkowski, Stanisław Migórski, Nikolaos S. Papageorgiou, 2003-01-31 This book offers an exposition of the main applications of Nonlinear Analysis beginning with a chapter on Nonlinear Operators and Fixed Points a connecting point and bridge from Nonlinear Analysis theory to its applications The topics covered include applications to ordinary and partial differential equations optimization optimal control calculus of variations and mathematical economics The presentation is supplemented with the inclusion of many exercises and their solutions

**Nonlinear Analysis: Problems, Applications and Computational Methods** Zakia Hammouch, Hemen Dutta, Said Melliani, Michael Ruzhansky, 2020-11-13 This book is a collection of original research papers as proceedings of the 6th

International Congress of the Moroccan Society of Applied Mathematics organized by Sultan Moulay Slimane University Morocco during 7th 9th November 2019 It focuses on new problems applications and computational methods in the field of nonlinear analysis It includes various topics including fractional differential systems of various types time fractional systems nonlinear Jerk equations reproducing kernel Hilbert space method thrombin receptor activation mechanism model labour force evolution model nonsmooth vector optimization problems anisotropic elliptic nonlinear problem viscous primitive equations of geophysics quadratic optimal control problem multi orthogonal projections and generalized continued fractions The conference aimed at fostering cooperation among students researchers and experts from diverse areas of applied mathematics and related sciences through fruitful deliberations on new research findings This book is expected to be resourceful for researchers educators and graduate students interested in applied mathematics and interactions of mathematics with other branches of science and engineering

*Handbook of Multivalued Analysis* Shouchuan Hu, Nikolaos S. Papageorgiou, 2013-11-21 In volume I we developed the tools of Multivalued Analysis In this volume we examine the applications After all the initial impetus for the development of the theory of set valued functions came from its applications in areas such as control theory and mathematical economics In fact the needs of control theory in particular the study of systems with a priori feedback led to the systematic investigation of differential equations with a multi valued vector field differential inclusions For this reason we start this volume with three chapters devoted to set valued differential equations However in contrast to the existing books on the subject i e J P Aubin A Cellina *Differential Inclusions* Springer Verlag 1983 and Deimling *Multivalued Differential Equations* W De Gruyter 1992 here we focus on Evolution Inclusions which are evolution equations with multi valued terms Evolution equations were raised to prominence with the development of the linear semigroup theory by Hille and Yosida initially with subsequent important contributions by Kato Phillips and Lions This theory allowed a successful unified treatment of some apparently different classes of nonstationary linear partial differential equations and linear functional equations The needs of dealing with applied problems and the natural tendency to extend the linear theory to the nonlinear case led to the development of the nonlinear semigroup theory which became a very effective tool in the analysis of broad classes of nonlinear evolution equations

**Variational Analysis and Generalized Differentiation in Optimization and Control** Regina S. Burachik, Jen-Chih Yao, 2010-11-25 This book presents some 20 papers describing recent developments in advanced variational analysis optimization and control systems especially those based on modern variational techniques and tools of generalized differentiation

**Handbook of Metric Fixed Point Theory** W.A. Kirk, B. Sims, 2013-04-17 Metric fixed point theory encompasses the branch of fixed point theory which metric conditions on the underlying space and or on the mappings play a fundamental role In some sense the theory is a far reaching outgrowth of Banach's contraction mapping principle A natural extension of the study of contractions is the limiting case when the Lipschitz constant is allowed to equal one Such mappings are called nonexpansive Nonexpansive mappings

arise in a variety of natural ways for example in the study of holomorphic mappings and hyperconvex metric spaces Because most of the spaces studied in analysis share many algebraic and topological properties as well as metric properties there is no clear line separating metric fixed point theory from the topological or set theoretic branch of the theory Also because of its metric underpinnings metric fixed point theory has provided the motivation for the study of many geometric properties of Banach spaces The contents of this Handbook reflect all of these facts The purpose of the Handbook is to provide a primary resource for anyone interested in fixed point theory with a metric flavor The goal is to provide information for those wishing to find results that might apply to their own work and for those wishing to obtain a deeper understanding of the theory The book should be of interest to a wide range of researchers in mathematical analysis as well as to those whose primary interest is the study of fixed point theory and the underlying spaces The level of exposition is directed to a wide audience including students and established researchers

*Equilibrium Problems and Applications* Gábor Kassay, Vicențiu

Rădulescu, 2018-10-09 *Equilibrium Problems and Applications* develops a unified variational approach to deal with single valued set valued and quasi equilibrium problems The authors promote original results in relationship with classical contributions to the field of equilibrium problems The content evolved in the general setting of topological vector spaces and it lies at the interplay between pure and applied nonlinear analysis mathematical economics and mathematical physics This abstract approach is based on tools from various fields including set valued analysis variational and hemivariational inequalities fixed point theory and optimization Applications include models from mathematical economics Nash equilibrium of non cooperative games and Browder variational inclusions The content is self contained and the book is mainly addressed to researchers in mathematics economics and mathematical physics as well as to graduate students in applied nonlinear analysis A rigorous mathematical analysis of Nash equilibrium type problems which play a central role to describe network traffic models competition games or problems arising in experimental economics Develops generic models relevant to mathematical economics and quantitative modeling of game theory aiding economists to understand vital material without having to wade through complex proofs Reveals a number of surprising interactions among various equilibria topics enabling readers to identify a common and unified approach to analysing problem sets Illustrates the deep features shared by several types of nonlinear problems encouraging readers to develop further this unifying approach from other viewpoints into economic models in turn

*Fixed Point Theory and Applications, Volume 6* Yeol Je Cho, Jong Kyu Kim, 2007 *Fixed Point Theory Applications*

*Variational Analysis and Generalized Differentiation I* Boris S. Mordukhovich, 2006-08-08 Variational analysis is a fruitful area in mathematics that on one hand deals with the study of optimization and equilibrium problems and on the other hand applies optimization perturbation and approximation ideas to the analysis of a broad range of problems that may not be of a variational nature This monograph in 2 volumes contains a comprehensive and state of the art study of the basic concepts and principles of variational analysis and generalized differentiation in both finite dimensional and infinite

dimensional spaces and presents numerous applications to problems in optimization equilibria stability and sensitivity control theory economics mechanics etc The first volume is devoted to the basic theory of variational analysis and generalized differentiations while the second volume describes various applications Both volumes include abundant bibliographies and extensive commentaries

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