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Siegfried Schaible memorial page Welcome

The Working Group on Generalized  
Convexity (WGGC) was founded during  
the 15th International Symposium on  
Mathematical Programming in Ann Arbor  
(Michigan, U.S.A.), August 1994. It is a  
growing, interdisciplinary group of scholars

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Generalized monotonicity of bifunctions or multifunctions is a rather new concept in optimization and nonsmooth analysis. It is shown in the present paper how quasiconvexity, pseudoconvexity, and strict pseudoconvexity of lower semicontinuous functions can be characterized via the quasimonotonicity, pseudomonotonicity, and strict pseudomonotonicity of different types of generalized derivatives ...

Generalized monotonicity and generalized convexity ...

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Generalized Convexity, Generalized Monotonicity and ...

While initial efforts to generalize convexity and monotonicity were limited to only a few research centers, today there are numerous

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researchers throughout the world and in various disciplines engaged in theoretical and applied studies of generalized convexity/monotonicity (see <http://www.genconv.org>):

Handbook of Generalized Convexity and Generalized Monotonicity

Studies in generalized convexity and generalized monotonicity have significantly increased during the last two decades.

Researchers with very diverse backgrounds such as mathematical programming, optimization theory, convex analysis, nonlinear analysis, nonsmooth analysis, linear algebra,

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Generalized Convexity, Generalized Monotonicity: Recent Results by Jean-Pierre Crouzeix, 9780792350880, available at Book



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In particular, 
$$\begin{aligned} \frac{\pi}{4} < f(r) < \frac{\pi}{4} + \bigg| \left( \frac{4}{\pi} - \frac{\pi}{4} \right) r \end{aligned}$$
 (1.4) for  $r \in (0, 1)$ . Both inequalities given in (1.4) are sharp as  $r \rightarrow 0$ , whereas the second inequality is also sharp as  $r \rightarrow 1$ .

Monotonicity, convexity, and inequalities  
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Monotonicity: Proceedings of the 6th  
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Convexity/Monotonicity, Samos,  
September 1999. Nicolas Hadjisavvas, Juan  
E. Martinez-Legaz, Jean-Paul Penot.  
Springer Science & Business Media, Apr 10,  
2001 - Mathematics - 410 pages.

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Handbook of Generalized Convexity and  
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Nicolas, Komlósi, Sándor, Schaible,  
Siegfried S.: Amazon.com.au: Books

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In recent years there is a growing interest in

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generalized convex functions and generalized monotone mappings among the researchers of applied mathematics and other sciences.

This is due to the fact that mathematical models with these functions are more suitable to describe problems of the real world than models using conventional convex and monotone functions.

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Of The 6th International  
Symposium On Generalized  
Convexity Monotonicity

Studies in generalized convexity and generalized monotonicity have significantly increased during the last two decades.

Researchers with very diverse backgrounds such as mathematical programming, optimization theory, convex analysis, nonlinear analysis, nonsmooth analysis, linear algebra, probability theory, variational inequalities, game theory, economic theory, engineering, management science, equilibrium analysis, for example are attracted to this fast growing field of study. Such enormous research activity is partially due to the discovery of a rich, elegant and deep theory which provides a basis for interesting existing and potential applications in different disciplines. The handbook offers an advanced and broad overview of the current state of the field. It contains fourteen chapters written by the

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leading experts on the respective subject; eight on generalized convexity and the remaining six on generalized monotonicity.

In recent years there is a growing interest in generalized convex functions and generalized monotone mappings among the researchers of applied mathematics and other sciences.

This is due to the fact that mathematical models with these functions are more suitable to describe problems of the real world than models using conventional convex and monotone functions.

Generalized convexity and monotonicity are now considered as an independent branch of applied mathematics with a wide range of applications in mechanics, economics, engineering, finance and many others. The present volume contains 20 full length papers which reflect current theoretical studies of generalized convexity and monotonicity, and numerous

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applications in optimization, variational inequalities, equilibrium problems etc. All these papers were refereed and carefully selected from invited talks and contributed talks that were presented at the 7th International Symposium on Generalized Convexity/Monotonicity held in Hanoi, Vietnam, August 27-31, 2002. This series of Symposia is organized by the Working Group on Generalized Convexity (WGGC) every 3 years and aims to promote and disseminate research on the field. The WGGC (<http://www.genconv.org>) consists of more than 300 researchers coming from 36 countries.

This volume contains a collection of refereed articles on generalized convexity and generalized monotonicity. The first part of the book contains invited papers by leading experts (J.M. Borwein, R.E. Burkard, B.S. Mordukhovich and H. Tuy)



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with applications of (generalized) convexity to such diverse fields as algebraic dynamics of the Gamma function values, discrete optimization, Lipschitzian stability of parametric constraint systems, and monotonicity of functions. The second part contains contributions presenting the latest developments in generalized convexity and generalized monotonicity: its connections with discrete and with continuous optimization, multiobjective optimization, fractional programming, nonsmooth Analysis, variational inequalities, and its applications to concrete problems such as finding equilibrium prices in mathematical economics, or hydrothermal scheduling. Audience This volume is suitable for faculty, graduate students, and researchers in mathematical programming, operations research, convex analysis, nonsmooth analysis, game theory and mathematical economics.

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A function is convex if its epigraph is convex. This geometrical structure has very strong implications in terms of continuity and differentiability. Separation theorems lead to optimality conditions and duality for convex problems. A function is quasiconvex if its lower level sets are convex. Here again, the geometrical structure of the level sets implies some continuity and differentiability properties for quasiconvex functions. Optimality conditions and duality can be derived for optimization problems involving such functions as well. Over a period of about fifty years, quasiconvex and other generalized convex functions have been considered in a variety of fields including economics, management science, engineering, probability and applied sciences in accordance with the need of particular applications. During the last twenty-five years, an increase of research

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activities in this field has been witnessed. More recently generalized monotonicity of maps has been studied. It relates to generalized convexity of functions as monotonicity relates to convexity. Generalized monotonicity plays a role in variational inequality problems, complementarity problems and more generally, in equilibrium problems.

Various generalizations of convex functions have been introduced in areas such as mathematical programming, economics, management science, engineering, stochastics and applied sciences, for example. Such functions preserve one or more properties of convex functions and give rise to models which are more adaptable to real-world situations than convex models. Similarly, generalizations of monotone maps have been studied recently. A growing literature of this interdisciplinary

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field has appeared, and a large number of international meetings are entirely devoted or include clusters on generalized convexity and generalized monotonicity. The present book contains a selection of refereed papers presented at the 6th International Symposium on Generalized Convexity/Monotonicity, and aims to review the latest developments in the field.

The authors have written a rigorous yet elementary and self-contained book to present, in a unified framework, generalized convex functions. The book also includes numerous exercises and two appendices which list the findings consulted.

Generalizations of the classical concept of a convex function have been proposed in various fields such as economics, management science, engineering, statistics and applied sciences during the second half

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of this century. In addition to new results in more established areas of generalized convexity, this book presents several important developments in recently emerging areas. Also, a number of interesting applications are reported.

Until now, no book addressed convexity, monotonicity, and variational inequalities together. Generalized Convexity, Nonsmooth Variational Inequalities, and Nonsmooth Optimization covers all three topics, including new variational inequality problems defined by a bifunction. The first part of the book focuses on generalized convexity and generalized monotonicity. The authors investigate convexity and generalized convexity for both the differentiable and nondifferentiable case. For the nondifferentiable case, they introduce the concepts in terms of a bifunction and the Clarke subdifferential. The second part

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offers insight into variational inequalities and optimization problems in smooth as well as nonsmooth settings. The book discusses existence and uniqueness criteria for a variational inequality, the gap function associated with it, and numerical methods to solve it. It also examines characterizations of a solution set of an optimization problem and explores variational inequalities defined by a bifunction and set-valued version given in terms of the Clarke subdifferential.

Integrating results on convexity, monotonicity, and variational inequalities into one unified source, this book deepens your understanding of various classes of problems, such as systems of nonlinear equations, optimization problems, complementarity problems, and fixed-point problems. The book shows how variational inequality theory not only serves as a tool for formulating a variety of equilibrium problems, but also provides algorithms for

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The aim of this volume is to strengthen the interest in generalized convexity, generalized monotonicity and related areas and to stimulate new research in these fields by update survey (or recent results) of known experts covering many important topics such as some new theoretical aspects of generalized convexity and generalized invexity, some applications of generalized monotonicity and pseudomonotonicity to equilibrium problems and to economic and financial problems, some applications of abstract convexity, some applications of discrete convex analysis to cooperative game theory, fractional programming, optimality conditions in vector optimization (smooth and non-smooth), semi-infinite optimization and a new method for solving multiobjective problems.

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