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Generalized convexity and generalized monotonicity Author Andrew
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 ...

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Uses of Generalized Convexity and Generalized Monotonicity in Economics Reinhard John 619 Index 667. Preface Convexity of functions plays a central role in many branches of applied mathematics. One of the reasons is that it is very well fitted to extremum problems.

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rjohn@uni-bonn.de June 2004 1 This paper has been prepared as a chapter for the Handbook of Generalized Convexity and Generalized Monotonicity, edited by N. Hadjisavvas ...

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the relationships of generalized convexity of non-differentiable functions and generalized monotonicity of set-valued mappings. This paper is devoted to study the relationships between generalized convexity of non-differentiable functions and generalized monotonicity as well as generalized co-coerciveness of set-valued mappings.

Generalized monotonicity and convexity of non ...

Generalized Convexity and Generalized Monotonicity. Proceedings of the 6th International Symposium on Generalized Convexity/Monotonicity, Samos, September 1999 . Nicolas Hadjisavvas, Juan Enrique Martinez-Legaz, and Jean Paul Penot (editors) Springer (2001), Lecture Notes in Economics and Mathematical Systems, Vol. 502, ISBN: 3-540-41806-7

Generalized Convexity and Generalized Monotonicity

Generalized monotonicity and convexity of non-differentiable functions ... In addition, the relations between generalized convexity of non-differentiable functions and generalized co-coerciveness of set-valued mappings are also analyzed. Previous article in issue; Next article in issue;

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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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They have proved that the generalized convexity of the function is equivalent to the generalized monotonicity of its gradient function . Motivated by the work of Karamardian and Schaible (1990), there has been increasing interest in the study of monotonicity and generalized monotonicity and their relationships to convexity and generalized convexity.

Generalized Invariant Monotonicity and Generalized ...

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.

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Generalized Convexity, Generalized Monotonicity: Recent ...

From convexity to generalized convexity. Quasiconvex functions. Pseudoconvex functions. Invex functions. Extensions of GC functions. Generalized monotone operators. References SummerSchool,Kaohsiung,July2008 p.2/43

An Overview of Generalized Convexity

Generalized Convexity and Generalized Monotonicity: Proceedings of the 6th International Symposium on Generalized Convexity/Monotonicity, Samos, September 1999 Volume 502 of Lecture Notes in Economics and Mathematical Systems: Editors: Nicolas Hadjisavvas, Juan E. Martinez-Legaz, Jean-Paul Penot: Edition: illustrated: Publisher

Generalized Convexity and Generalized Monotonicity ...

It begins with a review of convex analysis and the fundamental theoretical findings on generalized convexity and on optimization, including their applications. The text continues with an introductory chapter devoted to generalized monotonicity and its relationship to generalized convexity, with the characterizations of important classes of fractional programming, and with theoretical ...

Generalized Convexity and Optimization: Theory and ...

generalized convexity and monotonicity Crouzeix [8], see also Crouzeix-Ferland [9] and Diewert-Avriel-Zang [20]. A s i n Katzner, th e proof in [8] is based o n t h e implicit function theorem:

(PDF) Criteria for Generalized Convexity and Generalized ...

We provide the monotonicity and convexity properties and sharp bounds for the generalized elliptic integrals $\int_a^r K_{\alpha}(r) dr$ and $\int_a^r E_{\alpha}(r) dr$...

Monotonicity, convexity, and inequalities for the ...

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