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Uses of Generalized Convexity and Generalized Monotonicity in Economics Reinhard John1 Department of Economics University of Bonn Adenauerallee 24-42 53113 Bonn, Germany email: rjohn@uni-bonn.de June 2004 1This 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

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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 off unctions as monotonicity relates to convexity. Generalized monotonicity plays a role in variational inequality problems, complementarity problems and more generally, in equilibrium prob lems.

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

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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 $\mathscr{K}(a)(r)$ and $\mathscr{E}(a)(r)$...

Monotonicity, convexity, and inequalities for the ...

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