

Generalized Convexity Nonsmooth Variational Inequalities And Nonsmooth Optimization

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Generalized Convexity Nonsmooth Variational Inequalities

Book Description. 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.

Generalized Convexity, Nonsmooth Variational Inequalities ...

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Generalized Convexity, Nonsmooth Variational Inequalities ...

In this chapter, we endeavor to study those variational inequality problems that pertain to the optimization problems involving a nonsmooth objective. It is easy to observe that in case the objective function fails to be differentiable, then a necessary optimality condition may be derived in terms of a generalized directional derivative $h(x; d)$.

Nonsmooth Variational Inequalities | Generalized Convexity ...

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Generalized convexity, nonsmooth variational inequalities ...

9781439868201 Generalized convexity, nonsmooth variational inequalities, and nonsmooth optimization. Ansari, Q.H. and C.S. Lalitha, M. Mehta.

Generalized convexity, nonsmooth variational inequalities ...

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General convexity, nonsmooth variational inequalities, and ...

Variational-Like Inequalities and Nonsmooth Vector Optimization Problem Involving Higher Order Strong Invexity B.B. Upadhyay¹, and Priyanka Mishra² ... It is well known that convexity and generalized convexity have wider applications in optimization theory, engineering, economics, ...

182 On Generalized Minty and Stampacchia Vector ...

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Ansari Q.H., Lalitha C.S., Mehta M. Generalized Convexity ...

This paper deals with the study of weak sharp solutions for nonsmooth variational inequalities and finite convergence property of the proximal point method. We present several characterizations for weak sharpness of the solutions set of nonsmooth variational inequalities without using the gap functions. We show that under weak sharpness of the solutions set, the sequence generated by proximal ...

Weak Sharpness and Finite Convergence for Solutions of ...

Convexity and its generalizations played a critical role in multi-objective programming problems. In many generalizations, approximate convexity and invexity are two significant generalized versions of convexity, which tried to weaken the convexity hypotheses thus to study the relations between vector variational-like inequalities and multi-objective programming problems.

Vector critical points and generalized quasi-efficient ...

We introduce nonsmooth vector quasi-variational-like inequalities (NVQVLI) by means of a bifunction. We establish some existence results for solutions of these inequalities by using Fan-KKM theorem and a maximal element theorem. By using the technique and methodology adopted in Al-Homidan et al. (2012), one can easily derive the relations among these inequalities and a vector quasi ...

Existence Results for Nonsmooth Vector Quasi-Variational ...

Using the prox-regularity notion, we introduce and study a generalized mildly nonconvex variational inequality. We study existence and iterative approximation of its solution un-der the partially relaxed cocoercivity. Several consequences of the proposed nonconvex variational inequality are

also discussed.

Generalized mildly nonconvex variational inequalities and ...

class of variational inequality, which is called general variational inequality. For the numerical methods and other aspects of general variational inequalities, see [20] and the references therein. The concept of convexity and its variant forms have played a fundamental role in the development of various fields. Hermite (1883) and Hadamard (1896)

Generalized Convexity and Integral Inequalities

Generalized Minty and Stampacchia vector variational inequalities are introduced involving generalized subdifferential. Under strongly geodesic convexity, relations between solutions of these inequalities and a nonsmooth vector optimization problem are established.

Vector variational inequalities on Hadamard manifolds ...

Generalized Convexity, Nonsmooth Variational Inequalities, and Nonsmooth Optimization. (2013) A splitting algorithm for dual monotone inclusions involving cocoercive operators. Advances in Computational Mathematics 38 :3, 667-681.

Co-Coercivity and Its Role in the Convergence of Iterative ...

Generalized Convexity, Nonsmooth Variational Inequalities, and Nonsmooth Optimization covers all three topics, including new variational inequality problems defined by a bifunction.

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