论文

OPTIMALITY CONDITIONS IN NONSMOOTH MULTIOBJECTIVE PROGRAMMING

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摘要   In this paper, a separation theorem is established firstly. Applying this theorem the relationships between the solutions of a series of inequality systems are discussed. Then a necessary optimality condition without distance function is obtained under a new constraint qualification for a multiobjective programming in which all the objective functions and constraint functions are Lipschitz. Finally sufficient conditions are studied.

关键词   multiobjective programming, generalized
分类号

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Abstract In this paper, a separation theorem is established firstly. Applying this theorem the relationships between the solutions of a series of inequality systems are discussed.Then a necessary optimality condition without distance function is obtained under a new constraint qualification for a multiobjective programming in which all the objective functions and constraint functions are Lipschitz. Finally sufficient conditions are studied.

Key words   multiobjective programming   generalized gradient   separation theorem   weak Pareto-efficient solution

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