

Sufficiency optimality conditions for multiobjective programming under generalized univexity type I with semidifferentiable functions

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Abstract : In this paper we extend Hanson, Pini and Singh's type I vector invexity (V-type I) and Mishra, Rueda and Giorgi's generalized type I vector invexity to vector generalized univexity type I semidifferentiable functions. Some sufficiency results are established using Lagrange multiplier conditions under various type of generalized V-invexity type I with semidifferentiable functions

Key words and phrases : Multiobjective programming, sufficiency, semidifferentiability, generalized convexity.

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