

## Non-Differentiable Mond-Weir Type Symmetric Duality under Generalized Invexity

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**Abstract :** In the present paper, a pair of Mond-Weir type non-differentiable multiobjective second-order programming problems, involving two kernel functions, where each of the objective functions contains support function, is formulated. We prove weak, strong and converse duality theorem for the second-order symmetric dual programs under  $\eta$ -pseudoinvexity conditions.

**Keywords :** non-differentiable multiobjective programming, second-order symmetric duality, efficiency, support function,  $\eta$ -pseudoinvexity

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