

Tadeusz Antczak, Krzysztof Kisiel

Strict minimizers of order m in nonsmooth optimization problems

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Abstract: In the paper, some sufficient optimality conditions for strict minima of order m in constrained nonlinear mathematical programming problems involving (locally Lipschitz) (F, ρ) -convex functions of order m are presented. Furthermore, the concept of strict local minimizer of order m is also used to state various duality results in the sense of Mond-Weir and in the sense of Wolfe for such nondifferentiable optimization problems.

Keywords: nonsmooth programming, strict local minimizer of order m , Clarke's generalized gradient, (F, ρ) -convex function of order m with respect to θ

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