Optimality conditions for epsilon-quasi solutions of optimization problems via epsilon-convexificators

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Abstract

The aim of this talk is to present necessary and sufficient optimality conditions for a point to be an epsilon-quasi solution of a scalar optimization problem via epsilon-convexificators, which are closed sets, but not necessarily bounded or convex. The results are applied in order to obtain necessary optimality conditions for approximate solutions of a vector optimization problem with constraints, which, at its turn, provides necessary optimality conditions for epsilon-quasi efficient solutions of a vector equilibrium problem with constraints.