

On Constraint Qualifications for Multiobjective Optimization

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In this work, we are interested in differentiable constrained multiobjective optimization problems. We focus on the study of constraint qualifications to obtain weak stationary point. We discuss the relationships between constraint qualification and the distinct notions of regularity found in the literature. The main aspect of this contribution is the introduction of a new notion of a normal cone, which allows us to define weak constraint qualifications.