

Lipschitz Continuity of Regular Graphical Derivatives to Set-Valued Maps

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Abstract

In this talk we present a study of the graphical derivative associated to the Clarke tangent cone, for set-valued Lipschitz maps. We derive conditions under which the domain of the graphical derivative at a point is the whole space and the graphical derivative is Lipschitz continuous. These results are analogous to a well known Lipschitz continuity result for the graphical derivative associated to the Bouligand tangent cone.