Derivative Characterizations of Bi-metric Regularity of Set-Valued Maps

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Abstract

This concerns an equivalent characterization of bi-metric regularity of set-valued maps in terms of derivative. Such a characterization was more or less known for the classical metric regularity. The novelty consists in the statement of such characterization for *bi-metric* regularity which is also valid for Hölder bi-metric regularity. Our results concerns set-valued maps from a complete metric space to a Banach space. We also give an application to our characterization for the stability of the Pontryagin map for optimal control.

References

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