

Sublinear mappings and metric regularity

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ABSTRACT.

The metric regularity is a central concept in variational analysis. This concept is frequently used for the study of solutions to some generalized equations, to variational inequalities and to parametrized constraints systems. Fundamental theorems of this field are Eckart-Young's, Robinson-Ursescu's and Lyusternik-Grave's theorem. They have applications in single valuedness functions theory and also in set-valued mappings theory. The purpose of this article is to analyze the metric regularity property of some sublinear applications.

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