INVERSION THEOREM FOR NONCONVEX MULTIFUNCTIONS

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Abstract. Using the techniques of variational analysis, we extend the inversion theorem of Robinson for convex multifunctions to \( \gamma \)-paraconvex multifunctions, preinvex multifunctions and strongly convex multifunctions, respectively. The results are used to derive upper bounds on the distance from an approximate solution to the solution set.

Keywords and phrases: Inversion theorem, \( \gamma \)-paraconvex multifunction, preinvex multifunction, strongly convex multifunction, normed space.

REFERENCES