

Lipschitz Continuous Selectors, Part I: Linear Selectors

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Abstract: We study various properties of Lipschitz continuous linear selectors on the family of all convex, nonempty and compact subsets of \mathbb{R}^n . In particular, it is shown that if S is such a selector then the Lipschitz constant of S can be estimated from below by the norm of $S(B^n)$, where B^n is the unit ball. A notion of a parametric representation of convex bodies is introduced and illustrated with examples.



Classification (MSC2000): 54C65, 54C60, 52Axx

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