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On the extension of bi-Lipschitz mappings

Abstract: Let X be a closed semialgebraic set of dimension k . If $n \geq 2k + 1$, then there is a bi-Lipschitz and semialgebraic embedding of X into \mathbb{R}^n . Moreover, if $n \geq 2k + 2$, then this embedding is unique (up to a bi-Lipschitz and semialgebraic homeomorphism of \mathbb{R}^n). We also give local and complex algebraic counterparts of these results.