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	authors	• Luca Capogna • Enrico Le Donne	**authors**	• Luca Capogna • Enrico Le Donne	DUPLICATES	15
	title	Smoothness of subRiemannian isometries	**title**	Smoothness of subRiemannian isometries		
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	abstract	We show that the group of isometries (i.e., distance-preserving homeomorphisms) of an equiregular subRiemannian manifold is a finite-dimensional Lie group of smooth transformations. The proof is based on a new PDE argument, in the spirit of harmonic coordinates, establishing that in an arbitrary subRiemannian manifold there exists an open dense subset where all isometries are smooth.	**abstract**	We show that the group of isometries (i.e., distance-preserving homeomorphisms) of an equiregular subRiemannian manifold is a finite-dimensional Lie group of smooth transformations. The proof is based on a new PDE argument, in the spirit of harmonic coordinates, establishing that in an arbitrary subRiemannian manifold there exists an open dense subset where all isometries are smooth.		
	versions		**versions**			