Summary: One proves in this note that, if $X$ is a compact metric space such that $X \times [0, 1]$ is a quasiconvex metric space, $Y_1$ is a compact subset of a normed space $Y$ such that there exists an open subset $U$ of $Y$ with $Y_1 \subseteq U$ and $\varphi : U \to Y_1$ is a Lipschitz function with $\varphi|_{Y_1} = \text{Id}$, then every two Lipschitz functions $f, g : X \to Y_1$ which are homotopic are also Lipschitz homotopic. This work makes use of a result of G. Georganopoulos [C. R. Acad. Sci., Paris, Sér. A 264, 319-321 (1967; Zbl 0148.11504)] in order to generalize a result of Sze-Tsen Hu [Port. Math. 7, 45-49 (1948; Zbl 0034.25403)].

*Keywords* : Lipschitz function; homotopy

*Classification* :

*54E40* Special maps on metric spaces

*26A16* Lipschitz classes, etc. (one real variable)

*54C10* Special maps on topological spaces

Cited in ...