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A generalization of the Schauder fixed point theorem via multivalued contractions

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Abstract: We establish a fixed point theorem for a continuous function $f : X \rightarrow E$, where E is a Banach space and $X \subseteq E$. Our result, which involves multivalued contractions, contains the classical Schauder fixed point theorem as a special case. An application is presented.

Keywords: fixed points, multivalued contractions, absolute retracts

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