Fixed point theorems for Zamfirescu mappings in metric spaces endowed with a graph

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ABSTRACT.

Let (X, d) be a metric space endowed with a graph G such that the set $V(G)$ of vertices of G coincides with X. We define the notion of G-Zamfirescu maps and obtain a fixed point theorem for such mappings. This extends and subsumes many recent results which were obtained for mappings on metric spaces endowed with a graph and for cyclic operators.

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