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A note on invariant sets of iterated function systems. (English)

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Summary: We prove that the family of all invariant sets of iterated systems of contractions $\mathbb{R}^N \rightarrow \mathbb{R}^N$ is a nowhere dense F_σ type subset in the space of the nonempty compact subsets of \mathbb{R}^N equipped with the Hausdorff metric.

Keywords : iterated function system; fractal; invariant set; weak contraction

Classification :

*49Q20 Variational problems in geometric measure-theoretic setting