POINTWISE ATTRACTORS WHICH ARE NOT STRICT

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Abstract:

We deal with the finite family $\mathcal{F}$ of continuous maps on the normal Hausdorff space. Each nonempty compact subset A of such space is called a strict attractor if it has an open neighborhood U such that $A = \lim_{n\to\infty} \mathcal{F}^n(S)$ for every nonempty compact $S \subset U$. Every strict attractor is a pointwise attractor, which means that the set $\{x \in X; \lim_{n\to\infty} \mathcal{F}^n(x) = A\}$ contains A in its interior.

We present a class of examples of pointwise attractors which are not strict - from the finite set to the Sierpiński gasket.

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