

A classification of fractals

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Abstract

We remember some classical classes of fractals - finitely ramified selfsimilar structures (F.R.S.S.), post critical finite selfsimilar structures (P.C.F.S.S.), affine nested fractals (A.N.F.) - and give a classification of them with examples and counterexamples.

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1 Introduction

We introduce the basic concepts and structures used in our exposition and remember the most important classical results attached to them.

1.1 The space of fractals and Iteration Function Systems (I.F.S.)

For (X, d) metric space and $A, B \subset X$, define

$$h(A, B) := \inf\{\varepsilon \geq 0 \mid A \subseteq B + \varepsilon \text{ și } B \subseteq A + \varepsilon\}. \quad (1)$$

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