

On minimal homeomorphisms on Peano continua

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Following the question of Artigue we construct a minimal homeomorphism $g: X \rightarrow X$ on a Peano continuum X with the following property: there exist a positive number ε and a dense G_δ subset E of X such that every non-trivial subcontinuum of X intersecting E expands under iterations of g to a continuum of diameter greater than ε .

References

- [1] Artigue A. Minimal expansive systems and spiral points *Topology and its Applications*, **194**, 166–170, 2015.
- [2] Kato H., Continuum-wise expansive homeomorphisms *Canad. J. Math.*, **45(3)**, 576–598, 1993.
- [3] Mañé R. Expansive homeomorphisms and topological dimension *Trans. Am. Math. Soc.*, **252**, 313–319, 1979.