

Kato, Hisao**Generalized homogeneity of continua and a question of J. J. Charatonik.** (English)

Zbl 0635.54017

Houston J. Math. 13, 51-63 (1987).

A continuum X has the property of Kelley provided that for each $\epsilon > 0$, there is a $\delta > 0$ such that for each two points a and b in X satisfying $d(a, b) < \delta$ and for each subcontinuum A of X containing a , there exists a subcontinuum B of X containing b and such that the Hausdorff distance $d_H(A, B) < \epsilon$. The author constructs a contractible 2-dimensional continuum which is homogeneous with respect to the class of confluent mappings but does not have the property of Kelley. He also constructs a curve with the above properties, answering a question of Charatonik.

Reviewer: [J.Grispolakis](#)**MSC:****54F15** Continua and generalizations**54C10** Special maps on topological spaces (open, closed, perfect, etc.)Cited in **1** Review
Cited in **6** Documents**Keywords:**

homogeneity; property of Kelley; contractible 2-dimensional continuum; homogeneous; confluent mappings