

Arc folders: the fixed point property and weak chainability?

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A continuum is a compact, connected metric space. If a continuum X admits a monotone mapping η onto $[0, 1]$, we call the pair (X, η) a *continuum folder*. If for each $t \in [0, 1]$, $\eta^{-1}(t)$ is an arc or a point, we call (X, η) an *arc folder*. We give introductory remarks about continuum folders and arc folders. Thereafter, we discuss Rudy Gordh's 43 year-old question, "Do all arc folders have the fixed point property?", and we show that arc folders are weakly chainable.

(joint work with C.L. Hagopian and J.R. Prajs)