# Hyperspace Shadowing

Udayan Darji [*]

Department of Mathematics, University of Louisville, Louisville, KY 40292, USA
ubdarj01@gmail.com

We consider the following situation: Let $X$ be a continuum and $h : X \to X$ be a homeomorphism. Let $C(X)$ be the set of all subcontinua of $X$ and $2^h : C(X) \to C(X)$ be the map that takes $A \in C(X)$ to $h(A)$. Under what situation does $h$ having the shadowing property imply that $2^h$ has the shadowing property?

---