Alessandro Fedeli
On the cardinality of functionally Hausdorff spaces

Abstract: In this paper two new cardinal functions are introduced and investigated. In particular the following two theorems are proved:
(i) If X is a functionally Hausdorff space then $|X| \leq 2^{fs(X)\psi_\tau(X)}$;
(ii) Let X be a functionally Hausdorff space with $fs(X) \leq \kappa$. Then there is a subset S of X such that $|S| \leq 2^\kappa$ and $X = \bigcup\{cl_{\tau\theta}(A) : A \in [S]^{\leq\kappa}\}$.