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Let $X = \mathcal{C}(K)$ denote the continuous scalar-valued functions on a compact Hausdorff space K . We study the space $\mathcal{P}_s(nX)$ of continuous n -homogeneous polynomials $P : X \rightarrow \mathbb{K}$ with the following symmetric property:

$$\forall \varphi : K \rightarrow K, \text{ homeomorphisms, and } \forall f \in X, P(f) = P(f \circ \varphi).$$

In addition, we examine the algebra $A_{us}(B_X)$ of symmetric, uniformly continuous holomorphic functions $f : B \rightarrow \mathbb{C}$. These concepts are generalizations of earlier work of R. Alencar, A. Zagorodnyuk, and the authors [*Algebras of symmetric holomorphic functions on l_p* , Bull. London Math. Soc. 35 (2003), no. 1, 55-64, *Uniform algebras of symmetric holomorphic functions*, to appear.].

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