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COMPACT WEIGHTED COMPOSITION OPERATORS INDUCED BY A FINITE GROUP OF TRANSFORMATIONS

Abstract

Let X be a compact Hausdorff space and let $C(X)$ denote the space of all continuous complex-valued functions on X equipped with the Sup-norm. In this work we will study compactness of operators on uniformly closed subspaces A of $C(X)$, which are induced by a finite number of continuous mappings $\omega_i : X \to X (i = 1,...,n)$ of the form $T = \sum_{i=1}^{n} T_i$, where $T_i = u_i (f \circ \omega_i)$ are weighted composition operators on A and give some applications.