Hausdorff Operator on Hardy Spaces

Kalaivani Kamalakkannan

Department of Mathematics, Vellore Institute of Technology, Vellore, India

ABSTRACT

This paper is concerned with the characterization of the boundedness of the generalized Hausdorff operator on weighted spaces of integrable functions. As corollaries, the description of the generalized Hausdorff operator on L1 (w) is presented for different cases of w. Finally, we concluded with the range of the operator.

Keywords: Hausdorff operator, Generalized Hardy-Cesaro operators, Weighted spaces.



© 2022 Copyright held by the author(s). Published by AIJR Publisher in "Book of Abstracts of the 2nd International Conference on Applied Mathematics and Computational Sciences (ICAMCS-2022), 12–14 October 2022. Organized by the DIT University, Uttarakhand, India.