

A NEW SUBCLASS OF HARMONIC UNIVALENT FUNCTIONS ASSOCIATED WITH FRACTIONAL CALCULUS OPERATOR

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Abstract. The purpose of the present paper is to study a new subclass of harmonic univalent functions associated with fractional calculus operator. We obtain coefficient conditions, distortion bounds and extreme points for this class and discuss a class preserving integral operator. We also show that the class studied in this paper is closed under convolution and convex combination. The results obtained for the class reduce to the corresponding results for several known classes in the literature are briefly indicated.

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