

Study on Properties of Certain Subclass of Univalent Functions with Negative Coefficients Related to Fractional Calculus Operator

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Abstract: In this Paper, we have discussed a subclass $TS(\gamma, \alpha, \mu, \lambda)$ of univalent functions with negative coefficients related to fractional calculus operator in the unit disk $\mathbb{U} = \{z \in \mathbb{C}: |z| < 1\}$. We obtain basic properties like coefficient inequality, distortion and covering theorem, radii of starlikeness, convexity and close-to-convexity, extreme points, Hadamard product, and closure theorems for functions belonging to our class.

Keywords: Univalent, Fractional Operator, Starlike, Extreme points, Hadamard Product