CERTAIN CLASSES OF ANALYTIC FUNCTIONS WITH NEGATIVE COEFFICIENTS ASSOCIATED WITH A CONVOLUTION STRUCTURE

G. Murugusundaramoorthy and S. B. Joshi

Abstract. Making use of a convolution structure, we introduce a new class of analytic functions $PT_g(\lambda, \alpha, \beta, \gamma)$ defined in the open unit disc and investigate its various characteristics. Further we obtained distortion bounds, extreme points and radii of close-to-convexity, starlikeness and convexity for functions belonging to the class $PT_g(\lambda, \alpha, \beta, \gamma)$.


Keywords and phrases: Analytic, univalent, starlikeness, convexity, Hadamard product (convolution).

REFERENCES