Properties of harmonic functions which are convex of order Î² with respect to symmetric points

ABSTRACT

Let $\mathscr{H}$ denote the class of functions f which are harmonic and univalent in the open unit disc D = {z : |z| < 1}. This paper defines and investigates a family of complex-valued harmonic functions that are orientation preserving and univalent in $\mathscr{D}$ and are related to the functions convex of order β(0 ≤ β < 1), with respect to symmetric points. We obtain coefficient conditions, growth result, extreme points, convolution and convex combinations for the above harmonic functions.