MULTIVALENT FUNCTIONS WITH VARYING ARGUMENTS

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Abstract. Silverman [4] was defined the class of univalent functions $f(z) = z + \sum_{k=2}^{\infty} a_k z^k$ for which $arg(a_k)$ prescribed in such way that $f(z)$ is univalent if and only if $f(z)$ is starlike. In this paper we introduce the subclass of p-valent functions with varying arguments, especially p-valent starlike functions and $p-$ valent convex functions, moreover we give some interesting properties of functions in these classes, including coefficients estimates, distortion theorems and extreme functions.

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