

عنوان مقاله:

On norm estimation for certain subclasses of analytic functions in geometric functions theory

محل انتشار:

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خلاصه مقاله:

We investigate on some subclasses of analytic functions defined by subordination. Also, we give estimates of  $\sup_{|z|<1} (1 - |z|^\alpha) \left| \frac{f''(z)}{f'(z)} \right|$ , for functions belonging to extended class of starlike functions. For a locally univalent analytic function  $f$  defined on  $\Delta = \{z \in \mathbb{C} : |z| < 1\}$ , we consider the pre-Schwarzian norm by  $\|T\| = \sup_{|z|<1} (1 - |z|^\alpha) \left| \frac{f''(z)}{f'(z)} \right|$ . In this work, we find the sharp norm estimate for the functions  $f$  in the extended classes of starlike functions.

کلمات کلیدی:

Analytic Functions, Starlike functions, Pre-schwarzian derivatives, Subordination

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