
INITIAL COEFFICIENT INEQUALITIES FOR A SUBCLASS OF BI-UNIVALENT FUNCTIONS INVOLVING MERSENNE POLYNOMIALS

Murat Çağlar^{1,*} Mucahit Buyankara²,

¹*Department of Mathematics, Faculty of Science, Erzurum Technical University, Erzurum, Türkiye*

²*Vocational School of Social Sciences, Bingöl University, Bingöl, Türkiye*

ABSTRACT

In this article, we derive bounds for the initial Taylor–Maclaurin coefficients $|a_2|$ and $|a_3|$ for a newly defined subclass of analytic and bi-univalent functions in the open unit disk associated with Mersenne polynomials. In addition, several special cases and consequences of the proposed subclass are discussed.

Keywords Analytic and bi-univalent functions · Subordination · Coefficient inequalities · Mersenne polynomials

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*Corresponding Author's E-mail: murat.caglar@erzurum.edu.tr