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# Properties of multivalent functions associated with the integral operator defined by the hypergeometric function

Mohsan Raza<sup>1\*</sup> and Sarfraz Nawaz Malik<sup>2</sup>

\*Correspondence:  
mohsan976@yahoo.com  
<sup>1</sup>Department of Mathematics, GC University, Faisalabad, Pakistan  
Full list of author information is available at the end of the article

## Abstract

In this paper, we introduce a new class of multivalent functions by using a generalized integral operator defined by the hypergeometric function. Some properties such as inclusion, radius problem and integral preserving are considered.

**MSC:** 30C45; 30C50

**Keywords:** Bazilevič functions; multivalent functions; integral operator; hypergeometric functions

## 1 Introduction and preliminaries

Let  $A_p$  denote the class of functions  $f(z)$  of the form

$$f(z) = z^p + \sum_{n=p+1}^{\infty} a_n z^n \quad (p \in \mathbb{N} = \{1, 2, 3, \dots\}), \quad (1.1)$$

which are analytic in the open unit disc  $E$ . Also  $A_1 = A$ , the usual class of analytic functions defined in the open unit disc  $E = \{z : |z| < 1\}$ . A function  $f \in A_p$  is a  $p$ -valent starlike function of order  $\rho$  if and only if

$$\operatorname{Re} \frac{zf'(z)}{f(z)} > \rho, \quad 0 \leq \rho < p, z \in E.$$

This class of functions is denoted by  $S_p^*(\rho)$ . It is noted that  $S_p^*(0) = S_p$ . Let  $f(z)$  and  $g(z)$  be analytic in  $E$ , we say  $f(z)$  is subordinate to  $g(z)$ , written  $f \prec g$  or  $f(z) = g(z)$  if there exists a Schwarz function  $w(z)$ ,  $w(0) = 0$  and  $|w(z)| < 1$  in  $E$ , then  $f(z) = g(w(z))$ . In particular, if  $g$  is univalent in  $E$ , then we have the following equivalence

$$f(z) \prec g(z) \iff f(0) = g(0) \quad \text{and} \quad f(E) \subset g(E).$$

For any two analytic functions  $f(z)$  and  $g(z)$  with

$$f(z) = \sum_{n=0}^{\infty} a_n z^{n+1} \quad \text{and} \quad g(z) = \sum_{n=0}^{\infty} c_n z^{n+1}, \quad z \in E,$$

# Multivalent Functions

**Shigeo Ozaki**

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