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## Coefficient Functionals for a Class of Starlike Functions with Respect to Symmetric Points Involving the Balloon-Shaped Domain

### Communication Info

#### Authors:

Nur Hazwani Aqilah ABDUL WAHID <sup>1\*</sup>  
Shaharuddin CIK SOH <sup>1</sup>  
Muhammad Afif MOHAMAD SOBRI <sup>1</sup>  
Timilehin Gideon SHABA <sup>2</sup>

<sup>1</sup> Faculty of Computer and Mathematical Sciences  
Universiti Teknologi MARA  
40450 Shah Alam Selangor,  
Malaysia

<sup>2</sup> Department of Mathematics and Statistics, Redeemer's University, Ede 232101, Nigeria

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- (3) coefficient estimates
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### Abstract

Recent research in geometric function theory has extensively explored classes of starlike functions with respect to symmetric points across various domains. This study introduces a newly generalized subclass of starlike functions with respect to symmetric points associated with the balloon-shaped domain. Coefficient functionals for this newly defined subclass are derived, including the estimates of Taylor coefficients, logarithmic coefficients, the Fekete-Szegő inequality, and the Vandermonde determinant. The connection between the new results and existing results is discussed, which may also offer a new direction for research into the use of coefficient bounds in image enhancement.

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