BOUNDS ON THE COEFFICIENTS OF CERTAIN ANALYTIC AND UNIVALENT FUNCTIONS

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Abstract. For the real number $\alpha > 1$, we use a technique due to Nehari and Netanyahu and an application of certain integral iteration of Caratheodory functions to find the best-possible upper bounds on the coefficients of functions of the class $T_n^\alpha(\beta)$ introduced in [4] by Opoola.

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Key words. Coefficient bounds, analytic and univalent functions.

REFERENCES

[1] Babalola, K. O. and Opoola, T. O., *Iterated integral transforms of Caratheodory functions and their applications to analytic and univalent functions*, Tamkang J. Math., **37** (4) (2006), 355–366.

[2] Babalola, K. O. and Opoola, T. O., *On the coefficients of certain analytic and univalent functions*, Advances in Inequalities for Series, Nova Science Publishers (http://www.novapublishers.com) (2006), 5–17. (Edited by S. S. Dragomir and A. Sofo).

[3] Nehari, Z. and Netanyahu, E., *On the coefficients of meromorphic schlicht functions*, Proc. Amer. Math. Soc. **8** (1) (1957), 15–23.

[4] Opoola, T. O., *On a new subclass of univalent functions*, Matematica (Cluj) **36**, 59 (2)(1994), 195–200.

[5] Opoola, T. O., Babalola, K. O., Fadipe-Joseph O. A. and Rauf, K., *On the coefficient bounds of a subclass of univalent functions*, J. Nig. Math. Soc. **24** (2004), 87–92.

[6] Singh, R., *On Bazilevic functions*, Proc. Amer. Math. Soc. **38** (1973), 261–271.

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