

CERTAIN CLASS OF ANALYTIC FUNCTIONS
WITH VARYING ARGUMENTS DEFINED BY
SĂLĂGEAN AND RUSCHEWEYH DERIVATIVE

ÁGNES ORSOLYA PÁLL-SZABÓ

Abstract. In this paper we derive some results for a certain new class of analytic functions with varying arguments defined by using Sălăgean and Ruscheweyh derivative.

MSC 2010. 30C45.

Key words. Analytic function, Sălăgean operator, Ruscheweyh operator, Bernardi operator.

REFERENCES

- [1] AL-AMIRI, H.S., *On Ruscheweyh derivatives*, Ann. Polon. Math., **38** (1980), 87–94.
- [2] AL-OBOUDI, F.M., *On univalent functions defined by a generalized Sălăgean operator*, Int. J. Math. Math. Sci., **27** (2004), 1429–1436.
- [3] ATTIYA, A.A. and AOUF, M.K., *A study on certain class of analytic functions defined by Ruscheweyh derivative*, Soochow J. Math., **33** (2007), 273–289.
- [4] MOCANU, P.T., BULBOACĂ, T. and SĂLĂGEAN, G.S., *The Geometric Theory of Univalent Functions*, Casa Cărții de Știință, Cluj-Napoca, 2006.
- [5] PÁLL-SZABÓ, Á.O. and ENGEL, O., *Certain class of analytic functions with varying arguments defined by Salagean derivative*, Proceedings of the 8th International Conference on Theory and Applications of Mathematics and Informatics, Alba Iulia, Romania, 2015, 113–120.
- [6] RUSCHEWEYH, S., *New criteria for univalent functions*, Proc. Amer. Math. Soc., **49** (1975), 109–115.
- [7] SĂLĂGEAN, G.S., *Subclasses of univalent functions*, Lecture Notes in Math., Vol. 1013, 1983, 362–372.
- [8] SĂLĂGEAN, G.S., *Integral properties of certain classes of analytic functions with negative coefficients*, Int. J. Math. Math. Sci., **1** (2005), 125–131.
- [9] SILVERMAN, H., *Univalent functions with varying arguments*, Houston J. Math., **7** (1981), 283–287.

Received March 27, 2017

Accepted September 7, 2017

Babeș-Bolyai University

Faculty of Mathematics and Computer Science

1 M. Kogălniceanu St.

400084 Cluj-Napoca, Romania

E-mail: pallszaboagnes@math.ubbcluj.ro