Some univalence criteria for a family of integral operators

VIRGIL PESCAR and LAURA STANCIU

ABSTRACT.

The main objective of this paper is to obtain sufficient conditions for a family of integral operators to be univalent in the open unit disk $\mathcal{U}$, using new results on univalence of analytic functions. These integral operators were considered in a recent work, see [Stanciu, L., *The univalence conditions of some integral operators*, Abstr. Appl. Anal., **2012**, Art. ID 924645, 9 pp.].

REFERENCES

[1] Blezu, D., *On univalence criteria*, Gen. Math., **14** (2006), 77–84
[2] Blezu, D. and Pascu, R. N., *Univalence criteria for integral operators*, Glas. Mat., **36** (2001), 241–245
[3] Nehari, Z., Conformal Mapping, Dover, New York, NY, USA, 1975
[4] Pescar, V., *On the univalence of some integral operators*, Gen. Math., **14** (2006), No. 2, 77–84
[5] Pescar, V., *New generalizations of Ahlfors's, Becker's and Pascu's univalence criterions*, Acta Univ. Apul., No. **34** (2013), 173–178
[6] Pescar, V., *Univalence of certain integral operators*, Acta Univ. Apulensis Math. Inform., No. 12, (2006), 43–48
[7] Singh, V., *On a class of univalent functions*, Int. J. Math. Math. Sci., **23** (2000), 855–857
[8] Stanciu, L., *The univalence conditions of some integral operators*, Abstr. Appl. Anal., **2012**, Art. ID 924645, 9 pp.
[9] Yang, D. and Liu, J., *On a class of univalent functions*, Int. J. Math. Math. Sci. **22** (1999), No. 3, 605–610

DEPARTMENT OF MATHEMATICS
"TRANSILVANIA" UNIVERSITY OF BRAŞOV
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
BRAŞOV, ROMANIA
E-mail address: virgilpescar@unitbv.ro

DEPARTMENT OF MATHEMATICS
UNIVERSITY OF PITEŞTI
PITEŞTI, ROMANIA
E-mail address: laura_stanciu_30@yahoo.com