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Iterates of a class of discrete linear operators via contraction principle

Comment.Math.Univ.Carolinae 44,3 (2003) 555-563.

Abstract: In this paper we are concerned with a general class of positive linear operators of discrete type. Based on the results of the weakly Picard operators theory our aim is to study the convergence of the iterates of the defined operators and some approximation properties of our class as well. Some special cases in connection with binomial type operators are also revealed.

Keywords: linear positive operators, contraction principle, weakly Picard operators, delta operators, operators of binomial type

AMS Subject Classification: 41A36, 47H10