Rate of Convergence of a Kantorovich Variant of the Meyer–König and Zeller Operators

Ulrich Abel, Vijay Gupta and Mircea Ivan

Abstract. This paper is concerned with a Kantorovich variant of the Meyer-König and Zeller operators which was defined by Maier, Müller and Swetits. We derive sharp bounds for the first and second central moments yielding estimates for the rate of convergence in terms of the modulus of continuity. Finally, we study the asymptotic behaviour of these operators.

Key words and phrases: linear positive operators, rate of convergence, degree of approximation, sharp inequalities, asymptotic expansions.

REFERENCES