An Extension of Stancu Operator

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Abstract

In this talk, the linear positive Stancu operator stated in [2] is considered. An extension of the Stancu operator is proposed by means of the technique that was used in [1]. Approximation results for the sequence of these extended operators are given in the space of continuous, real valued functions on $[0, 1]$. For the rate of approximation, an estimate is obtained with the help of the modulus of smoothness. Some retaining properties of the new operator are also presented.

Keywords: Stancu operator, Modulus of smoothnes, Abel-Jensen formula, Lipschitz continuous function

References

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