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On Approximation Properties of some non-positive Bernstein-Durrmeyer Type Operators

Abstract

In this paper we shall introduce a new type of Bernstein Durrmeyer operators which are not positive on the entire interval $[0, 1]$. For these operators we will study the uniform convergence on all continuous functions on $[0, 1]$ as well as a result given in terms of modulus of continuity $\omega(f, \delta)$. A Voronovskaja type theorem will be proved as well.

References

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