A Note on the Bezier Variant of Certain Bernstein Durrmeyer Operators

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Abstract:

In the present note, we introduce a Bezier variant of a new type of Bernstein Durrmeyer operator, which was introduced by Gupta [3]. We estimate the rate of convergence by using the decomposition technique of functions of bounded variation and applying the optimum bound. It is observed that the analysis for our Bezier variant of new Bernstein Durrmeyer operators is different from the usual Bernstein Durrmeyer operators studied by Zeng and Chen [9].

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