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Approximation by genuine Lupaş-Beta-Stancu operators. (English) Zbl 1388.41016
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Summary: In this paper, we introduce a Stancu type generalization of genuine Lupaş-Beta operators of integral type. We establish some moment estimates and the direct results in terms of classical modulus of continuity, Voronovskaja-type asymptotic theorem, weighted approximation, rate of convergence and pointwise estimates using the Lipschitz type maximal function. Lastly, we propose a king type modification of these operators to obtain better estimates.

MSC:

41A36 Approximation by positive operators
41A25 Rate of convergence, degree of approximation

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Keywords:

Voronovskaja-type theorem; K -functional; rate of convergence; modulus of continuity; weighted approximation

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