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APPROXIMATION PROPERTIES OF BIVARIATE JAIN OPERATORS

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Abstract. In this paper we deal with bivariate Jain operators. We define a new Lipschitz type class and for functions of this class, we present an upper estimate for the approximation error by the sequence of these operators. Moreover, using a slight modification of the bivariate Jain operators, we show that the preservation of the classical Lipschitz class is achieved by each of these modified operators. Finally, we study weighted uniform approximation by the bivariate Jain operators.

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