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ON MULTIVARIATE APPROXIMATION BY MEJER-KONIG-ZELLER TYPE POLYNOMIALS

TIANZI JIANG

ABSTRACT. Multivariate positive linear operators have many good properties, such as convergence, convexity preserving, simultaneous approximation, and so on. They can been used in the field of computer graphics. The typical example is multivariate Bernstein polynomial. Recently, much effort was devoted to study the properties of multivariate positive linear operators. In this paper, we give a multivariate version of Mejer-Konig-Zeller operator and find out the approximation properties of this operator. Our results are theoretical, but they will provide the benchmark for the use of such operators in practice.

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School of Mathematics, The University of New South Wales, Sydney 2052, Australia
and National Laboratory of Pattern Recognition, Institute of Automation, Chinese Academy of Sciences Beijing 100080 P.R. China
E-mail: jiangtz@maths.unsw.EDU.AU and jiangtz@prlsun6.ia.ac.cn
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