

Exact Bounds for Some Basis Functions of Approximation Operators

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The exact bounds of Bernstein basic functions and Meyer-König and Zeller basis functions have been determined in [*J. Math. Anal. Appl.*, 219 (1998), 364–376]. In this note the exact bounds of some other basis functions of approximation operators and corresponding probability distributions are determined.

Keywords: Bounds; Basis functions of approximation operators; Probability distributions

AMS Mathematics Subject Classifications: 41A36, 41A35, 41A10

1. INTRODUCTION

In approximation theory the so-called Bernstein basis functions are

$$P_{nk}(x) = \binom{n}{k} x^k (1-x)^{n-k} \quad (0 \leq k \leq n, x \in [0, 1]), \quad (1)$$

the Meyer-König and Zeller basis functions are

$$M_{nk}(x) = \binom{n+k-1}{k} x^k (1-x)^n \quad (k \in \mathbb{N}, x \in [0, 1]), \quad (2)$$

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Approximation Of Functions Operators

Roman Wölfel



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