

Simultaneous approximation by Schurer type operators

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ABSTRACT. Let p be a given non negative integer. For $m \in \mathbb{N}$, let $\tilde{B}_{m,p} : C([0, 1 + p]) \rightarrow C([0, 1])$

$$(\tilde{B}_{m,p}f)(x) = \sum_{k=0}^{m+p} \tilde{p}_{m,k}(x)f(k/m)$$

be the Schurer operators (introduced and studied by Schurer, K., in 1962). Some approximation properties were studied in ([4]).

In the present paper we study properties of simultaneous approximation for $\tilde{B}_{m,p}$. As particular cases, we get similar properties for Bernstein operators.

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