On the Schurer-Stancu approximation formula

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ABSTRACT. Let $p \geq 0$ be a given integer and let $\alpha, \beta \in \mathbb{R}$ be parameters satisfying the conditions $0 \leq \alpha \leq \beta$. In [1] was introduced the Schurer-Stancu operator $\widetilde{S}_{m,p}^{(\alpha,\beta)} : C([0, 1 + p]) \to C([0, 1])$ defined for any $m \in \mathbb{N}$ and any $f \in C([0, 1 + p])$ by (1.1). Considering the Schurer-Stancu approximation formula (1.3), one studies its remainder term. As particular cases follow the remainder terms of Schurer, Stancu and respectively Bernstein approximation formulas.

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