
DIRECT AND INVERSE RESULTS FOR ITERATED BOOLEAN SUMS OF GENERALIZED SAMPLING OPERATORS

Tuncer ACAR^{1,2,*}, Borislav R. DRAGANOV^{3,4}, Metin TURGAY^{1,2}

¹*Selcuk University, Department of Mathematics, Faculty of Science, 42003, Selcuklu, Konya, Türkiye*

²*Constructive Mathematical Analysis Research Laboratory (CMARL), Selcuk University, 42003, Selcuklu, Konya, Türkiye*

³*Sofia University “St. Kliment Ohridski”, Department of Mathematics and Informatics, 5 James Bourchier Blvd., 1164 Sofia, Bulgaria*

⁴*Bulgarian Academy of Sciences, Institute of Mathematics and Informatics, bl. 8 Acad. G. Bonchev Str., 1113 Sofia, Bulgaria*

ABSTRACT

This study analyzes the approximation properties of iterated Boolean sums constructed from generalized sampling operators. We derive a direct theorem concerning the rate of convergence within the uniform norm on the real axis. To demonstrate that this estimate is sharp, we also prove a strong converse inequality. The arguments presented herein are based on established results regarding simultaneous approximation by generalized sampling operators.

Keywords sampling operators · direct results · boolean sums

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*Corresponding Author's E-mail: tunceracar@yahoo.com