

Journal of Analysis and Applications

Vol. 22 (2024), No.2, pp.69-79

ISSN: 0972-5954

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URL : www.sasip.net

Degree of simultaneous approximation of multivariate functions by neural networks with one hidden layer*

N.W. Hahm

Abstract. Many authors([1], [4], [5], [6]) have been examined simultaneous approximation by neural networks with one hidden layer. Hahm and Hong ([5], [6]) suggested some simultaneous approximation results for univariate functions. Hahm and Hong [7] obtained degree of multivariate functions by generalized translation networks with one hidden layer. In this paper, we suggest degree of simultaneous approximation of multivariate function by neural networks with one hidden layer.

AMS Subject Classification (2020): 65D15, 41A25

Keywords: Simultaneous approximation, Degree of approximation, Neural networks, Bernstein polynomials

*This research was supported by Incheon National University Research Grant in 2022.