Pinkus, Allan (IL-TECH)

Approximating by ridge functions. (English. English summary)


This paper surveys certain aspects of the study of ridge functions. Ridge functions are often encountered in the analysis of artificial neural networks. The relation of approximation by ridge functions with the Schwarz alternating method is discussed. When the degree of approximation is investigated, there is the natural question as to what function spaces are appropriate. At first glance, there seems to be a bound for the degree that is independent of the dimension, but the author emphasizes that the dimensionality factor has only been transferred to the function spaces.

{For the entire collection see 99g:65005}

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