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May 26th, 2020 - in this article we present and analyze a new scheme for the approximation of multivariate functions  $d \geq 3$  by sums of products of univariate functions the method is based on the adaptive cross approximation aca initially designed for the approximation of bivariate functions to demonstrate the linear plexity of the schemes we apply it to large scale multidimensional arrays generated by''constructive methods for factorization of matrix functions

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