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**Pinkus, Allan**

**Some density problems in multivariate approximation.**

Müller, Manfred W. (ed.) et al., Approximation theory. Proceedings of the 1st international Dortmund meeting IDoMAT 95 held in Witten, Germany, March 13-17, 1995. Berlin: Akademie Verlag. Math. Res. 86, 277-284 (1995).

Let  $f : \mathbb{R}_+ \rightarrow \mathbb{R}$  be a fix function. The paper is a review of some density problems related to the following three cases.

A)  $\text{span}\{f(|x - a|); a \in \mathbb{R}^n\}$ ,

B)  $\text{span}\{f(\rho|x - a|); a \in \mathbb{R}^a, \rho > 0\}$ ,

C)  $\text{span}\{g(|x - a|); g \in C(\mathbb{R}_+), a \in \mathcal{A}\}$  (here  $g$  varies but the centers  $a$  come from a fixed set  $\mathcal{A}$ ).

The questions were motivated by problems of neural networks, or computerized tomography, and some by the study of radial basis functions, ridge functions and the like.

*Y.A.Brudnyi (Haifa)*

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