Swetits, J. J.; Weinstein, S. E.
Construction of the best monotone approximation on $L_p[0, 1]$. (English) Zbl 0702.41048

In a recent paper (Huotari, et. al.) and explicit construction was given for a best $L_1$ approximation from the class of monotone nondecreasing $L_1$ functions to a given $L_1$ function. In this paper this construction is extended to all $L_p$-spaces, $1 < p < \infty$.

Reviewer: G.D.Taylor

MSC:
41A65 Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)
41A29 Approximation with constraints
41A50 Best approximation, Chebyshev systems

Keywords:
best $L_1$ approximation

Full Text: DOI

References:
[2] {\sc R. Huotari and D. Legg}, Best monotone approximation in \textit{L}1[0, 1], preprint. · Zbl 0534.41015

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