Iranmanesh, Mahdi; Soleimany, Fatemeh
Characterization of best approximation of closed convex subsets in $C_b(X,Y)$. (English)

Summary: The purpose of this paper is to prove various Kolmogorov type criteria for $C_b(X,Y)$, the space of bounded continuous functions supplied with the sup-norm from a topological space $X$ into a Banach space $Y$. We introduce the maximum numerical range $f$ with respect to $g$ for each $f, g$ to characterize best approximation points in closed convex subsets of $C_b(X,Y)$.

MSC:
41A50 Best approximation, Chebyshev systems
26B25 Convexity of real functions of several variables, generalizations

Full Text: [Link](#)

References:

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