

FUZZY FUNCTION APPROXIMATIONS USING FEEDFORWARD NETWORKS WITH SIGMOIDAL SIGNALS

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Abstract

Chen, Babri and their collaborators studied function approximations using sigmoidal and generalized sigmoidal functions. Ramakrishnan et.al. introduced left sigmoidal signals and studied function approximations of $C(\overline{R}^n)$. In this paper, we investigate the approximations of fuzzy subsets of $R = (-\infty, \infty)$ with left sigmoidal signals using the supremum operator \vee .

Key Words : *Left sigmoidal, Function approximation, Feedforward networks, Fuzzy set etc.*