

On the Regression Function Estimation by Haar Polynomial Expansion

T. W. Chen

Tamkang University

R.O.C.

Yen-Huei Li

Tamkang University

R.O.C.

Abstract

An estimate of a regression function via Haar polynomial is proposed and its consistency has been shown. Rate of convergence of the mean square error of the proposed estimator at a certain point under some conditions is also studied.

Keywords: Regression Function Estimation, Haar Polynomial, Mean Square Error.