

SPLINE ADDITIVE REGRESSION MODELS

AMMAR MUSLIM ABDULHUSSEIN¹, AMEERAJABER MOHAISEN² & FIRAS A. AL-SAADAWI³

^{1,3} Department of Mathematics, The Open Educational College in Basrah, Iraq

² Department of Mathematics, AL-Basrah University, College of Education for Pure Science, Iraq

ABSTRACT

In this paper, we study additive regression models with spline smoothing, and determining the numbers of knots and their locations by using some statistical criteria.

KEYWORDS: Spline, Penalized Spline, Mixed Models, Additive Regression, Knots, Cross-Validation