Non-Parametric Identification Of Generalized Hammerstein Models

Emara-Shabaik, HE; Moustafa, KAF

King Fahd University of Petroleum & Minerals

http://www.kfupm.edu.sa

Summary

The Hammerstein model is considered in a generalized form, where its nonlinear element can have multi-inputs and a finite memory. The identification of the multi-input finite memory nonlinearity and the impulse response sequence of the model is treated using a non-parametric approach. A numerical example is given. The identification results of the example illustrate the effectiveness of the developed technique.

References:
1. HABER R, 1990, AUTOMATICA, V26
2. RAO BLS, 1983, NONPARAMETRIC FUNCTI
3. TAPIA RA, 1978, NONPARAMETRIC PROBAB

For pre-prints please write to: abstracts@kfupm.edu.sa