Design of Neural Predictor for Vibration Analysis of Drilling Machine

Authors : İkbal Eski

Abstract : This investigation is researched on design of robust neural network predictors for analyzing vibration effects on moving parts of a drilling machine. Moreover, the research is divided two parts; first part is experimental investigation, second part is simulation analysis with neural networks. Therefore, a real time the drilling machine is used to vibrations during working conditions. The measured real vibration parameters are analyzed with proposed neural network. As results: Simulation approaches show that Radial Basis Neural Network has good performance to adapt real time parameters of the drilling machine.

Keywords : artificial neural network, vibration analyses, drilling machine, robust

Conference Title : ICCET 2015 : International Conference on Control Engineering and Technology

Conference Location : Venice, Italy

Conference Dates : August 13-14, 2015