## INTELLIGENT DRIVE FOR INDUCTION MOTOR CONTROL P. Chatterjee, B.M. Karan, and P.K. Sinha

## Abstract

Soft computing techniques such as artificial neural networks and fuzzy logic have been used to design an intelligent drive for induction motor control. The objective of this work is to present a new method of control of induction motor using less Central Processing Unit (CPU) time. To achieve this, fuzzy logic controller with reduced rule base has been designed along with a modular type of neural observer to completely design the intelligent drive. Performance superiority over existing control mechanisms is not kept presently within the scope of work. Reduced CPU time, with speed controls within acceptable limits, achieved from this work will help to utilize available CPU time in other controls in an integrated automatic control system. Several comparative results are presented in the paper.

Key Words

Neural observer, fuzzy controller, intelligent drive, CPU time