

Automation of the Jib Crane Operations Using Adaptive Neuro-Fuzzy Inference System

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This paper presents the approach to the adaptive control system design on the basis of fuzzy logic. The main idea is to create the operator's actions model for the jib crane operations automation. The ANFIS simulates the actions of a human operator during load positioning. Several optimization algorithms of ANFIS parameters tuning were compared. The results of ANFIS learning are suggested.