

Natthawut Chinthaned 2006: System Identification of Robot Arms Using Adaptive Neuro-Fuzzy Models. Master of Engineering (Electrical Engineering),
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This research focus on the system identification of robot arms using Adaptive Neuro-Fuzzy Model. Both open-loop and closed-loop system identification are analyzed. Training data sets are obtained by simulating a robot arms dynamic equation on Simulink and Matlab program. Then , the training data is used in learning algorithm in the next procedure. The learning algorithm is based on the Hybrid learning algorithm which consists of the Least-square method and Levenberg-Marquardt method. Finally, the models from these experiments are tested by means of open-loop and closed-loop verification.

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Thesis Advisor's signature

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