

# **STUDY AND EVALUATION OF DATAMINING AND STATISTICS BASED TEMPERATURE CONTROL**

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## **ABSTRACT**

A comparative approach on temperature control design is carried out in this paper. Mathematical model for a home water heater is developed to find the heater temperature, which is set by the controller. In order to make the system intelligent two techniques were used, one is data mining based and the other being semi average based technique (a statistics methodology). Based on the past temperature setting from user, future temperature settings will be predicted. The error in the presented techniques on prediction with the user setting data were analysed statistically and the results were presented to improve the controller design on prediction.

**KEYWORDS:** Data Mining, KNN Algorithm, Semi Averages, Temperature Control