MAE 565

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3/15/17

Weekly Progress Report

Project Formulation:

The team will be using a thermostat that is controlled via fuzzy logic. The environment being analyzed is an oven. The environment will have heat flow into the oven from an electric heating element and heat flow out of the oven from conduction and convection which can be varied with a fan.

Linguistic Variables: { Temperature; Temperature Rate}

Linguistic Values: { Very Low, Low, Set Point, High, Very High; Very Negative, Negative, Zero, Positive, Very Positive}

Control Variables: { Heater; Fan}

Control Values: { Off, Low, Medium, High, Very High; Off, Low, Medium, High}