DESIGN OF AUTOMATIC FISH GRILLER USING FUZZY LOGIC METHOD

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ABSTRACT

Batam City is a part of the Riau Islands Province which has a tremendous sea potential. Thus, culinary tourism provided in Batam provides many menus based on seafood such as seafood. Seafood food processing is served generally steam or burnt. Seafood restaurants in Batam currently mostly use traditional fish grills, as the consequence, during process it needs to be monitored with the aim of the grilled fish does not burn. Therefore we need an automatic grilling tool that is capable of baking without being monitored.

Automatic grills were designed using the method of fuzzy logic controller (FLC) which is used as a temperature controller in the baking furnace. Temperature control is executed through the fan settings and the exhaust fan speed. The workings of this system are started by determining the 3 basic rule bases of the FLC method. Grilling the fish is done automatically by turning the fish tongs on the grill. The fish tongs rotation would stop when the fish is cooked.

The results of the test showed that by using the FLC method with 3 rule base systems designed are able to control the temperature of the furnace and able to roast properly as expected.

Keywords: Fuzzy Logic Controller (FLC), Toaster, Rule Base, Control