

**Research Title**    Development of a Fuzzy-GA Controller  
for Temperature Control in Electric Kiln

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### **ABSTRACT**

This research project presents an application of fuzzy-genetic algorithms for the temperature control in electric ceramics kiln. This work aims to controlling the temperature in firing step of burning the ceramic products which were coated with black, intensely red and green chemical substances. This control system consists of an intelligent controller, Thermocouple, Actuator, A/D-D/A Converter and Electric kiln. The controller is a program which was developed to works on a microcomputer. The experimental results show that the developed system can control the temperature as expected and gives products with a high quality of color, very close to the standard ceramics products