

Abstract

Existing fire extinguishing systems are currently working in case of fire in one room there will be a complete blackout on one floor. If this system applied in an electronic mall can cause economic losses. The system that author built on this final task is an Internet of Things based system that can detect and extinguish in a case of fire in electronic mall automatically. In addition, Fuzzy logic is planted as a decision maker for the system can perform selective blackouts, where the system to extinguish only in certain rooms based on the intensity of room temperature parameters and smoke thickness. Both data into a Fuzzy Logic input, after done processing out, will be actuator instructions, called by servo motor. The built system can prevent in case of fire and efficient in fire fighting because the extinguishing process is done selectively.

Keyword: *Fuzzy Logic, Internet of Things, fire extinguishing systems, aktuator*