
Abstract

Chili is one of the basic food materials that are very widely used in Indonesia, but chili cultivation is not an easy thing, because chili plants are very sensitive, like can not be exposed to too much or too little water, ambient temperature must be right, right level of pH on the soil. If this chili plant has a changing environment, or watering, and irregular fertilization can cause crop failure or plants to die, and there are so many people do not have access to clean water, with reducing water usage we can save the energy needed for water processing, then the solution offered is a system that can regulate and monitor chili plants that help in watering by using fuzzy logic to calculate the 2 parameters soil moisture, and temperature, result we got using fuzzy, fuzzy can regulate water necessary for plant survival, and 75,65% more efficient than traditional watering.

Kata Kunci: fuzzy, agriculture, automation, chili plants