

Abstract

Smart e-pot is a soil used plantation media that implements fuzzy logic as data processor from censor in order to run the actuator to water the plants automatically. Thus, it can bring benefits for people who want to plant in their house.

This final project will explain about how the data that get from censor of soil moisture, air humidity and temperature will be processed on FIS. The plat that used is spinach tree that needs moist soil as its media. Spinach can live well in the temperature between 17°-28° and between 50-60% of air humidity.

From the experiment result, the spinach tree that uses smar e-pot has significant growth from 6 cm to 23cm and the wide of its leaves from 2cm becomes 6cm. Meanwhile, the one using manual pot, has growth from 6cm to 19cm only and the wide of its leaves is growth from 2 cm to 4,5 cm.

Keywords: *smart pot, ePot, fuzzy logic, actuator, sensor*