



## **A RIDING FUZZY CONTROL SYSTEM FOR A MOUNTAIN AGRICULTURAL ROBOT**

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*Abstract- A fuzzy control system was designed to command driving directions for a mountain agriculture robot. First, a fuzzy control system program was developed based on the scheme of the robot driving control system. Then, the core part of the system--the fuzzy controller--was designed. Finally, a system model was created and a simulation test was conducted through the application of the Fuzzy Toolbox in MATLAB and SIMULINK. The results showed that the system is effective.*

**Index terms:** mountain, agricultural robot, fuzzy control, simulation.