

Building algorithms and simulating an expert system for smart farming environment control based on fuzzy logic.

Pham Thi Tuyet

Abstract: This topic focuses on building an algorithm and simulating an expert system for smart cultivation environment control based on fuzzy logic. In the increasingly high-tech agricultural context, effective management of the cultivation environment has become a critical issue. The topic aims to develop an automatic control system applicable in practice, thereby improving productivity and saving resources. The research method includes both theoretical and experimental aspects, incorporating modern fuzzy logic technologies. The expected outcome of this topic is to provide a feasible solution for smart agriculture, contributing to advancing the technicalization process in the cultivation industry.

Keywords: Fuzzy logic algorithm, Smart farming environment, Expert control system, High-tech agriculture, Application deployment