

Research and development of an expert system for intelligent cultivation environment control based on fuzzy logic

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Abstract: In the context of increasingly demanding intelligent and efficient cultivation environment management, this study focuses on researching and building an expert system for smart cultivation environment control based on fuzzy logic. The main objective is to improve the quality of the cultivation environment through the application of certain spatial knowledge processing techniques. The proposed method combines both theoretical research and experimentation to build an effective and flexible system for adjusting cultivation environment factors. This study is expected to provide useful solutions for smart agriculture, enhancing productivity and sustainability in agricultural production.

Keywords: Expert system, fuzzy logic, cultivation environment, smart agriculture, knowledge processing