

基于灰色预测的模糊神经网络孵化控制系统

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摘要: 提出一种基于灰色预测的模糊神经网络控制策略,并应用在孵化过程控制系统中。运用灰色预测技术对孵化参数进行预测,方便后续控制,而模糊神经网络则控制过程的动态特性,保证孵化参数的精确和稳定控制。仿真结果表明,该系统能在50s内将被控对象稳定,具有良好的动态和静态特性。A fuzzy neural network control strategy based on gray prediction was presented and applied in control system of incubation process. The main parameters of incubation were predicted by gray prediction. The dynamic characteristics were controlled by fuzzy neural network to keep the accuracy and stability. The simulated results show that the system can make the object stable in 50 s, and it has good dynamic and static characteristics.

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