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Environmental Control for Plants using Intelligent Control Systems

By Ibrahim A. Hameed

GRIN Verlag Mrz 2012, 2012. Taschenbuch. Book Condition: Neu. 210x148x10 mm. This item is printed on demand - Print on Demand Neuware - Master's Thesis from the year 2005 in the subject Engineering - Artificial Intelligence, grade: MSc, - (Menoufia University - Faculty of Electornics Engineering - Dept. of Industrial Electronics and Control Engineering), course: Intelligent Control, language: English, abstract: [...] In practice, conventional controllers were used to control the system however their parameters are empirically adjusted. Besides, the operation of these controllers relies on the measurements provided by sensors located inside and near the greenhouse. If the information provided by one or several of these sensors is erroneous, the controllers will not operate properly. Similarly, failure of one or several of the actuators to function properly will impair the greenhouse operation. Therefore, an automatic diagnosis system of failures in greenhouses is proposed. The diagnosis system is based on deviations observed between measurements performed in the system and the predictions of a model of the failure-free system. This comparison is done through a bank of fuzzy observers, where each observer becomes active to a specific failure signature and inactive to the other failures. Neural networks are used to develop a model for the failure-free greenhouse. The main objective of this...



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