

## 機率類神經網路之水循環系統故障診斷

### **Fault Diagnosis of Water Circulation System Using Probabilistic Neural Network Approach**

魏忠必;周照凱;洗鴻瑋

#### Abstract

This paper presents a Probabilistic Neural Network (PNN) for water circulation system fault diagnosis. Using the known data to train the neural network. Then, input the new samples to diagnose the fault type. In order to prove the accuracy of the PNN for water circulation system fault diagnosis, using MATLAB to develop PNN program. The simulation can prove the proposed method is effective and accurate.

關鍵字：類神經網路;機率神經網路;水循環系統;故障診斷

Key words：Neural network;Probabilistic neural network;

Water circulation system;Fault diagnosis