比較進化演算與類神經網路應用於預測德基水庫入流量

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摘要

The ten-day inflow forecast model of Der-Ji Reservoir was established in the study. It can
significantly improve the real-time operation of this reservoir. We attempted to use the analysis
adjustment synthesis networks (AASN) and the grammatical evolution (GE) combined with the
genetic algorithm (GAs), called GEGA, to construct the inflow predicting model of Der-Ji Reservoir
in central Taiwan. In addition, this presented GEGA was analyzed and compared with the AASN.

關鍵字：Artificial neural network, Evolutionary algorithms, Grammatical evolution, Genetic algorithms.