應用多目標遺傳演算法於多目標水庫之最佳長期操作

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摘要

The present work develops a special and efficient multi-objective genetic algorithm for
optimizing the rule curves of a multi-purpose reservoir in Taiwan. This method was able to generate
uniformly spread solutions for a two-objective problem involving water supply and hydropower
generation. Results indicate that this approach is highly competitive and that can be considered a
viable alternative to solve multi-objective optimization problems of water resources planning and
management.

關鍵字：Multi-purpose reservoir, Rule curves, Multi-objective genetic algorithms.