

# 應用基因演算法求解長方體物件堆疊問題

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## 摘要

本研究提出一可行的演算法，求解長方體物件的堆疊問題。本研究以「下後左角」優先啟發式擺放方式作為擺放準則，利用遺傳基因演算法的機制，與深度搜尋的概念，並配合平行機台的運算能力，在合理的時間內，求得可接受之最佳解。本研究針對單容器與多容器的問題類型進行探討，並與相關文獻進行比較。在工業上，相關問題的應用很廣，如物流業、製造業的倉儲，期望本研究提出之演算法能成為提供業界處理相關問題時的參考，並進一步的改善相關作業。

關鍵詞：長方體、堆疊問題、遺傳基因演算法、平行機台

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