

# 模糊整備資源下之多階產品生產規劃

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## 摘要

在複雜的生產規劃環境中，令決策者所困擾的因素，並不是使用何種生產規劃方法，而是在不確定和不精準的資料中，找出最可能的依據，作出準確的決策，以往在處理不確定因素時，大多以機率模式作為推估的方式，但機率模式卻無法適切的表達人類不明確語意資訊；模糊函數在處理不明確的資訊時，可以經由決策者對外在環境的瞭解，及主觀的經驗作出適當的描述，這種表達的優勢讓決策者不僅可利用歷史資料作為參考依據，並且可加入專家意見幫助決策。本研究應用一般在企業上廣為使用的MRP系統之生產規劃架構，作為基本的多階生產規劃模式，考量實際可能生產的數量及模糊需求、模糊整備耗費與模糊產能限制等實際可能情況，並結合模糊推論系統，推論出最可能的資訊，並將其解模糊化的結果作為生產規劃的調整依據。

關鍵詞：物料需求規劃，多階生產規劃，模糊集合，模糊整備，模糊推論

## 目錄

第一章 緒論 1.1 研究背景--P1 1.2 研究目的--P2 1.3 研究方法與範圍--P4 1.4 研究架構--P5 第二章 文獻回顧與探討 2.1 文獻探討--P6 第三章 模糊推論之生產規劃 3.1 模糊推論之生產規劃--P10 3.2 模糊需求、模糊整備及模糊產能限制之關係--P16 3.3 模糊推論系統--P19 3.3.1 語意變數--P20 3.3.2 隸屬函數--P21 3.3.3 語意式模糊規則--P26 3.3.4 模糊推論引擎及解模糊化--P28 第四章 範例 4.1 範例--P30 第五章 結果分析 5.1 結果分析--P40 第六章 結論與建議 6.1 結論--P43 參考文獻--P45

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