

# 限制理論產品組合之決策漂移問題探討

吳鴻輝, 黃國維

工業工程與系統管理學系

管理學院

hhwu@chu.edu.tw

## 摘要

The product mix(PM) decision based on the theory of constraints(TOC) can generate good or even optimal solutions. The process used by TOC to determine the PM that will maximize profitability is a very simple series of steps. Several papers has contributed to assess the TOC solutions with very different results and to compare with other PM decision tools.

However, this process assumes only one capacity constrained resource(CCR). It has been criticized as being inefficient or infeasible solution when a manufacturing plant has multiple CCRs. The issue is that the capacity of some CCRs will not satisfy the capacity required by the optimal PM which is determined based on the TOC PM decision process.

That is the CCR will wander to another CCRs after the optimal PM is determined based on an original CCR. The behavior of the CCR wandering which is caused by the TOC PM decision process is referred as decision wandering in this research. Several modification algorithms have been proposed to enhance the TOC PM decision process, however, the comprehensibility of TOC PM decision process is declined and the original very easy series of steps are also complicated by these algorithms.

關鍵字：TOC, Product Mix, Decision Wandering