

# 結合MPLS網路之RFID佇列網路性能分析與探討

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## 摘要

在這一篇論文中，我們點出會影響系統效能的重要參數；我們也同時提出更適合用來作為接取技術應用，以及用於輪詢方式來決定學生進入教室之後的位置決定之技術。為了分享在RFID tag 之間的共用通訊波道，ISO/IEC 18000-6防碰撞標準協定機制也在本論文中加以分析。原則上，防碰撞機制在RFID讀寫器涵蓋區域範圍內的tag流量不高時，必須具有低平均延遲時間，以及高信文成功率兩個主要特性。我們同時也描述了基於MPLS網路概念上的FTA異質網路架構的系統操作，且就我們所建立具有容量c的M/G/1佇列模式中，我們可以獲得平均延遲時間。

關鍵詞：射頻無線識別、多重協定標籤交換、異質無線通訊、系統成功效能、平均延遲時間效能、換區速率。

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