## 中介監控代理人軟體整合既有醫療軟體之方法

### -以診斷輔助智慧型門診系統為例

Intermediate Monitor Agent for Integration of Present Medical Software

- Diagnosis Assistant Out-patient System as an Example

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#### 摘要

本研究旨在提出一個,透過監控作業系統底層的方式,整合不同醫療軟體的解決方案,而以門診系統智慧化為例,實作此解決方案。本研究包括一套現行之醫院門診系統,一套自行開發作為測試用之診斷輔助系統,以及中介監控智慧代理人軟體,透過監控門診系統及診斷輔助系統之間的資料輸入,加以連結,並將執行結果回傳門診系統,使原門診系統智慧化。因為本程式設計為系統外掛之觀念,因而可在不影響或變動醫院資訊系統或其他特定功能軟體的核心程式設計下,監控底層欄位變化與使用者動作,理論上幾乎可運用在所有 Windows 平台上的軟體中,運用層面廣大。中介監控代理人軟體將可為程式開發者及使用者帶來極大的方便,但對於HIS 的安全性影響問題則仍有待研究和討論。

關鍵字:HIS、監控軟體、智慧代理人、門診系統、診斷輔助

### **Abstract**

The purpose of this study is to address a problem solution for integration of different software by monitoring base level of operation system. To present this concept, we accomplish a smart outpatient system. It includes an on-going outpatient system, diagnosis assisting software, and our intermediate monitor agent software. By monitoring data flow of outpatient system and diagnosis assisting software, we makes the outpatient system "smart". This method can be applied to any software on operation system theoretically. Intermediate monitor agent software (IMA) can carry a widespread and convenient environment for programmer and user. But the problems of information safety and systemic safety should be considered.

Key Words: Hospital information system, Smart agent, Outpatient system, Diagnosis assistance.