擴增實境設計之應用初探以Google Earth天文為例

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摘 要

Google Earth服務的衛星雲圖，建置擴增元件功能，使得Google Earth增加更多樣化的內容，可以應用於課程教學，例如地震資訊、海嘯資訊、氣象資訊，創造更多元化的數位內容。 本研究使用STAR WALK軟體內已創建好龐大的虛擬天文資料庫，讓使用者透過GPS定位後與資料庫比對定位點，在螢幕內呈現當地虛擬天文圖，並結合STAR WALK軟體內『擴增實境』技術，將拍攝現實影像與虛擬天文結合，使用手機截圖方式，將截圖Google Earth內製作擴增元件後標記在各使用者所拍攝地區，在創建好後匯出KML(Keyhole Markup Language)格式檔案，再共享給其他使用者觀賞，透過擴增元件增強Google Earth數位內容領域。 使用STAR WALK軟體不必繁瑣於『擴增實境』開發研究上，加強Google Earth數位內容與STAR WALK『擴增實境』虛擬天文技術結合，使用者透過Google Earth創建KML(Keyhole Markup Language)共享此檔案，執行各使用者共享的KML檔案，可以獲得其他使用者當地天文奇景，由天文主題導入Google Earth，使得Google Earth數位內容當中的天文資訊更豐富。

關鍵詞 : 雲端服務、擴增實境、天文圖

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