行動衛星導航與保全救援整合系統之設計

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摘 要

本論文研究的內容旨在設計一個行動衛星導航與保全救援的整合系統。 本研究主要分為四部分：第一部份先分析衛星定位系統與手機定位系統的原理與應用，文中亦分析GPS衛星訊號接收模組之使用設計；第二部分係為導航系統之分析與設計，文中針對衛星導航之架構及與傳統導航主機之差異性及優缺點之討論與分析；第三部份則為研究並設計GPS與行動通訊結合之防盜保全系統，其中並討論車輛結合衛星定位與透過手機通訊達到車輛自主防盜與保全功能。最後一部份則為系統整合與實驗分析，其中更討論本研究之設計實體進行道路測試之實驗結果，並針對實際操作時之不便處逐一討論。

關鍵詞 : 衛星導航

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