

利用情境感知巡檢降低辦公大樓危機發生之研究

張豪雲, 張欽智, 曾秋蓉

資訊工程學系

資訊學院

changc@chu.edu.tw

摘要

Patrolling is very important to the safety of an office building or a factory. Currently, besides fixed patrolling route there is no better solution. Especially, in the case of crisis no effective algorithm is available to guide guards to resolve the crisis in the shortest time and reduce the damage. The main objective of this research is to develop a solution. We use different sorts of sensors to acquire the various context information. Through the analysis of the content information we can deduce the next checking point so that the crisis can be resolved and the damage is reduced to its minimum before it becomes worse and a disaster. In the proposed method we assign weightings to each piece of context information to calculate the patrolling route using an evaluation function we devise. In the proposed function we take into account of the various factors in the real world so that the function could fit real situation more.

關鍵字：Context-awareness, Patrol, Route planning