

Vague Location Tracking in Wireless Sensor Networks

林致宇, 曾煜棋, 方華韋, 高玉芬

Information Management

Computer Science and Informatics

yfkao@mi.chu.edu.tw

Abstract

Location tracking is one of important applications in wireless sensor networks. Because imprecision is an inherent property in location-tracking sensor networks, this paper focuses on the scenarios where users can tolerate a certain degree of imprecision. We develop a tree-based location management scheme to support vague location tracking. Specially, our proposed location management scheme can achieve two desirable goals. First, multiple imprecision levels can be provided. Second, the query cost will be proportional to the imprecision level.

Keyword :