

Abstract

This thesis presents a mobile positioning method for the Global System for Mobile communication (GSM) group. The method combine the Artificial Neural Networks (ANNs) to gather with the data extracted from Base station to give the accurate position of the mobile callers. This method has been tested with the data gathering from location in Thailand. The data needed are cell id, received signal level, arriving timing advance. The experimental result, given at the end, demonstrates the ability of this method to satisfy the FCC requirement. The result provides high possibility of implementing system, which achieves the FCC requirement.

