

Title (en)

MOBILE DEVICE LOCATION ESTIMATION USING DATA OF A WIRELESS NETWORK

Title (de)

BESTIMMUNG DES STANDORTS EINER MOBILEN VORRICHTUNG MITHILFE VON DATEN EINES DRAHTLOSEN NETZWERKS

Title (fr)

ESTIMATION DE LA POSITION D'UN DISPOSITIF MOBILE À L'AIDE DE DONNÉES D'UN RÉSEAU SANS FIL

Publication

EP 2868148 A1 20150506 (EN)

Application

EP 13809645 A 20130628

Priority

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- US 2013048744 W 20130628

Abstract (en)

[origin: WO2014005108A1] A method for location estimation of a mobile device using operational data of a wireless network includes creating a geospatial model of a wireless network. The geospatial model may include a geometry representative of coverage area of each antenna in the wireless network. The geometry may be created, by the modeling module, based on a tower data of the wireless network and an operational data from the wireless network. The geospatial model may further include range bands for each antenna, created based on the operational data. In addition, the method includes receiving, by the modeling module, a model of a plurality of sites for an area of the wireless network. Further, the method includes determining, by a location module, the location of the mobile device in the wireless network based on the geospatial model of a wireless network, the geospatial model of geospatial features and real-time operational data.

IPC 8 full level

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CPC (source: EP US)

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