

Title (en)

ESTIMATING A POSITION OF A WIRELESS MOBILE DEVICE WITH RESPECT TO ONE OR MORE BASE STATION

Title (de)

SCHÄTZUNG EINER POSITION EINER DRAHTLOSEN BEDIENEREINRICHTUNG IN BEZUG AUF EINE ODER MEHRERE BASISSTATIONEN

Title (fr)

ESTIMATION DE LA POSITION D UN DISPOSITIF MOBILE SANS FIL PA R RAPPORT A UNE OU A PLUSIEURS STATIONS DE BASE POUR TELEPHONES CELLULAIRES

Publication

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Application

EP 04782073 A 20040824

Priority

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Abstract (en)

[origin: WO2005057954A1] A first method for estimating a location of an MS (MS) in a communication network having a plurality of BTSs (BTSs) includes determining an area in which the MS can communicate with only one of the BTSs. A mean location within the area is calculated and used as the estimate. A second method includes determining an area in which the MS is within an overlapping coverage area of two of the BTSs. A locus of distance points at which a relative time difference of arrival of signals received by the MS from each of the BTSs is constant is determined. A point at which a line having an angle theta based upon relative signal power at the MS between first and second sectors of one of the BTSs intersects the locus is determined, and used as the estimate of the MS location.

IPC 8 full level

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