

Title (en)
HANDOVER CONTROL IN A RADIO COMMUNICATION SYSTEM

Title (de)
WEITERREICHUNGSSTEUERUNG IN EINEM FUNKKOMMUNIKATIONSSYSTEM

Title (fr)
COMMANDE DE TRANSFERT DANS UN SYSTEME DE COMMUNICATION RADIO

Publication
EP 1078548 A1 20010228 (EN)

Application
EP 99922313 A 19990514

Priority
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Abstract (en)
[origin: GB2337426A] A radio communications system comprising a mobile radio unit 1, and a number of base stations 6, 8, 10 and 12. The mobile unit 1 comprises, inter alia, a control processor 2, a digital signal processor 3 and a radio processor 4. The mobile unit 1 receives a wanted signal 5 from its serving or wanted base station 6. However, when there is an interfering signal 7 coming from an interfering base station 8, the mobile unit can attempt handover to one of two neighbouring base stations 10, 12 which offer suitable available alternative, neighbouring signals 9, 11. The mobile unit 1 monitors the signal level and wanted carrier signal to interference ratio of the wanted signal 5 from the serving base station 6, and the signal levels and the carrier to interference ratios of the signals 9, 11 of the neighbour base stations 10, 12, and makes a decision as to whether to perform a handover, and to which base station to handover to, on the basis of the carrier to interference ratios and the signal levels of the signals from the serving and neighbouring base stations. Further aspects relate to controlling handover on the basis of distributions of parameter values or, on the basis of variation value distributions. Handoff may be controlled by determining if a parameter value for a candidate base station is better than that of a serving base station by a predetermined variable.

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