

Title (en)

UPLINK COVARIANCE ESTIMATION FOR SU-MIMO PRECODING IN WIRELESS CELLULAR SYSTEMS

Title (de)

UPLINK-KOVARIANZSCHÄTZUNG FÜR SU-MIMO-VORCODIERUNG IN DRAHTLOSEN ZELLULAREN SYSTEMEN

Title (fr)

ESTIMATION DE COVARIANCE DE LIAISON MONTANTE POUR PRÉCODAGE SU-MIMO DANS DES SYSTÈMES CELLULAIRES SANS FIL

Publication

EP 4052432 A1 20220907 (EN)

Application

EP 20790061 A 20200930

Priority

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- IB 2020059177 W 20200930

Abstract (en)

[origin: WO2021084343A1] This disclosure relates to uplink covariance estimation for single user multiple input multiple output (SU-MIMO) precoding in wireless cellular systems. In one embodiment, a method is implemented in a network node configured to communicate with a wireless device. An uplink transmit covariance matrix is estimated from available samples of an uplink channel matrix in which the estimation is based at least in part on uplink demodulation reference signals (DMRS) inserted in data symbols transmitted by the wireless device. The estimation is further based at least in part on a selected uplink precoder matrix.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2021084343A1

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