

Title (en)

OPTIMAL WEIGHTS FOR MMSE SPACE-TIME EQUALIZER OF MULTICODE CDMA SYSTEM

Title (de)

OPTIMALE GEWICHTE FÜR DEN MMSE-RAUM-ZEIT-ENTZERRER EINES MULTICODE-CDMA-SYSTEMS

Title (fr)

POIDS OPTIMAUX DESTINES A UN EGALISEUR ESPACE-TEMPS MMSE D'UN SYSTEME CDMA A CODES MULTIPLES

Publication

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Application

EP 06773184 A 20060614

Priority

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- US 28460105 A 20051121

Abstract (en)

[origin: TW200721752A] Aspects of the invention provide an enhanced chip-level linear space-time equalizer 118 for multiple-input-multiple-output (MIMO) multi-code CDMA systems reusing same spreading codes in different transmit antennas 114. Reuse of the spreading codes at the transmitter 104, 204 creates an on-time inter-stream interference component (or cross-talk among distinct transmit antenna signals) which reuse the same spreading code as the desired signal in the soft metric sequence of the MIMO CDMA receiver after MMSE space-time equalization. The equalizer 118 has a MMSE weighting vector that takes the despreading effect into account.

IPC 8 full level

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Citation (search report)

- [X1] EP 1265373 A2 20021211 - LG ELECTRONICS INC [KR]
- See references of WO 2007001867A2

Citation (examination)

- EP 1471663 A2 20041027 - SAMSUNG ELECTRONICS CO LTD [KR]
- US 2002054621 A1 20020509 - KYEONG MUN GEON [KR], et al

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EP2779511A3

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