

Title (en)

MULTICARRIER, MULTI-USER MTC SYSTEM USING COMPRESSED SIGNAL SENSING

Title (de)

MEHRTRÄGER, MEHRNUTZER-MTC-SYSTEM UNTER VERWENDUNG KOMPRIMIERTER SIGNALERFASSUNG

Title (fr)

SYSTÈME MTC À MULTIPLES UTILISATEURS ET MULTIPLES PORTEUSES À L'AIDE D'UNE DÉTECTION DE SIGNAL COMPRESSÉE

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Application

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Abstract (en)

[origin: WO2016177815A1] The invention relates to a multicarrier compressed sensing multi-user system, wherein the system provides links between a base station (BSS) and a multiplicity of terminals (UE1, UE2,...), wherein several of the multiplicity of terminals (UE1, UE2,...) simultaneously access the same transmission medium, wherein the system uses a multicarrier modulation (MCM) with a set N of carriers, wherein one terminal from the multiplicity of terminals (UE1; UE2;...) uses at least one respective subset M1, M2,... of carriers from the set N of carriers, wherein M1, M2 is < N, and wherein a 1st terminal (UE1) from the multiplicity of terminals (UE1; UE2;...) uses a 1st subset M1 of carriers, and a 2nd terminal (UE2) from the multiplicity of terminals (UE1; UE2;...) uses a 2nd subset M2 of carriers, wherein at least one carrier from the 1st subset M1 is also part of the 2nd subset M2, wherein, furthermore, the base station (BSS) uses compressed sensing multi-user detection (CS-MUD) to detect a transmission from the 1st terminal (UE1; UE2;...) and a transmission from the 2nd terminal (UE1; UE2;...) from the multiplicity of the received set N of carriers.

IPC 8 full level

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