Title (en)

NETWORK-CENTRIC LINK ADAPTATION FOR COORDINATED MULTIPOINT DOWNLINK TRANSMISSION

Title (de)

NETZWERKZENTRIERTE VERBINDUNGSADAPTION FÜR KOORDINIERTE MEHRPUNKT-ABWÄRTSÜBERTRAGUNG

Title (fr)

ADAPTATION DE LIAISON CENTRÉE RÉSEAU POUR TRANSMISSION EN LIAISON DESCENDANTE MULTIPOINT COORDONNÉE

Publication

EP 2859672 A1 20150415 (EN)

Application

EP 13742749 A 20130606

Priority

• US 201213491204 A 20120607
• IB 2013054673 W 20130606

Abstract (en)

[origin: WO2013183029A1] A Coordinated Multipoint (CoMP) cell controller performs network-centric link adaptation for User Equipment (UE) in the CoMP cell. The CoMP cell controller receives at least infrequent channel estimates from a UE in the CoMP cell, from which it estimates downlink channel and thermal noise at the UE. The CoMP cell controller is aware of the desired signal to be received at the UE, and the intra-CoMP cell interference to the UE caused by transmissions to other UEs in the CoMP cell. The CoMP cell receives from the UE reports of inter-CoMP cell interference caused by transmissions by other CoMP cells. Based on the downlink channel quality, the desired signal, the intra-CoMP cell interference, the inter-CoMP cell interference, and the thermal noise, the CoMP cell controller performs link adaptation by selecting modulation and coding schemes, and other transmission parameters, for an upcoming transmission duration (such as a TTI).

IPC 8 full level

H04J 11/00 (2006.01)

CPC (source: EP KR)

H04B 15/02 (2013.01 - KR); **H04J 11/0053** (2013.01 - EP KR)

Citation (search report)

See references of WO 2013183029A1

Citation (examination)

RALF IRMER ET AL: "Coordinated Multipoint: Concepts, Performance, and Field Trial Results", IEEE COMMUNICATIONS MAGAZINE, 1 February 2011 (2011-02-01), pages 102 - 111, XP055410133, Retrieved from the Internet <URL:https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=5706317> [retrieved on 20170926]

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013183029 A1 20131212; AU 2013273112 A1 20150115; AU 2013273112 B2 20160128; BR 112014029648 A2 20170627; CN 104350697 A 20150211; EP 2859672 A1 20150415; IN 10419DEN2014 A 20150814; JP 2015524208 A 20150820; JP 6242387 B2 20171206; KR 20150029681 A 20150318; TW 201351940 A 20131216

DOCDB simple family (application)

IB 2013054673 W 20130606; AU 2013273112 A 20130606; BR 112014029648 A 20130606; CN 201380030056 A 20130606; EP 13742749 A 20130606; IN 10419DEN2014 A 20141206; JP 2015515639 A 20130606; KR 20157000249 A 20130606; TW 102117608 A 20130517