

Title (en)

COOPERATIVE RELAYING DATA METHOD AND SYSTEM FOR WIRELESS MESH NETWORK

Title (de)

KOOPERATIVES DATENWEITERLEITUNGSVERFAHREN UND SYSTEM FÜR EIN DRAHTLOSES MESH-NETZWERK

Title (fr)

PROCÉDÉ ET SYSTÈME DE RELAIS COOPÉRATIF DE DONNÉES POUR RÉSEAU SANS FIL MAILLÉ

Publication

EP 2353221 A4 20131120 (EN)

Application

EP 09825029 A 20091104

Priority

- MY 2009000186 W 20091104
- MY PI20084394 A 20081104

Abstract (en)

[origin: WO2010053348A2] The present invention discloses a method and system of cooperative data relay in a wireless mesh network. The system comprises at least one multi-hop relay base station (MR- BS) (100) and a plurality of relay station (RS) (200) which are configured to support mesh connections. The method in accordance with the preferred embodiments of the present invention provides capabilities to enable optimal data transmission by way of cooperative relay between the relay stations (RS) (200). Data transmission is initiated upon established the optimized multiple paths with respect to the relay stations (RS) (200). The determination of the optimized multiple paths is based the details of relays stations (RS) (200) provided to the reference table and centralized scheduling at the multi-hop relay station (MR-BS) (100). The reference table and centralized scheduling include, but not limiting to, all details and status pertaining to the plurality of relay stations (RS) (200) within the network, network condition and traffic type.

IPC 8 full level

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Citation (search report)

- [XA] EP 1480387 A1 20041124 - EATON CORP [US]
- [XA] WO 2008071112 A1 20080619 - HUAWEI TECH CO LTD [CN], et al & US 2009245165 A1 20091001 - LI TING [CN]
- [A] WO 2008015562 A2 20080207 - NOKIA CORP [FI], et al
- [XA] ZHIBIN WU ET AL: "Integrated routing and MAC scheduling for single-channel wireless mesh networks", WORLD OF WIRELESS, MOBILE AND MULTIMEDIA NETWORKS, 2008. WOWMOM 2008. 2008 INTERNATIONAL SYMPOSIUM ON A, IEEE, PISCATAWAY, NJ, USA, 23 June 2008 (2008-06-23), pages 1 - 8, XP031302769, ISBN: 978-1-4244-2099-5
- See references of WO 2010053348A2

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