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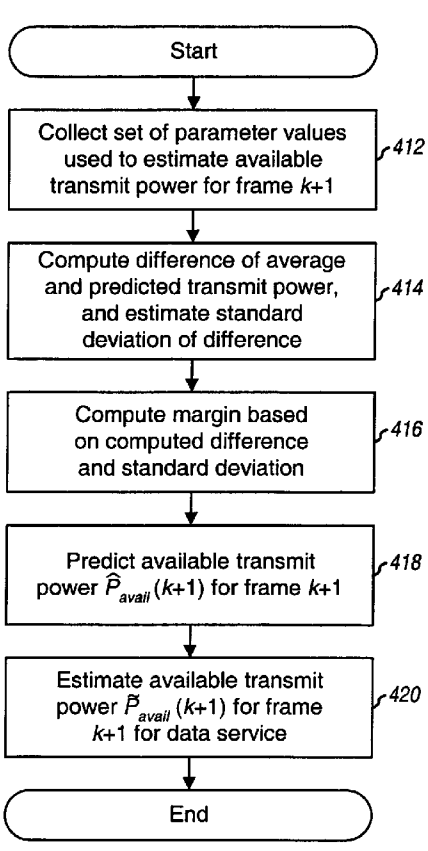
(54) Title: METHOD AND APPARATUS FOR DETERMINING AVAILABLE TRANSMIT POWER IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: Techniques to (more accurately) estimate the transmit power available for data service in a future time period (e.g., the next frame). In accordance with one aspect, variation in the available transmit power over time is estimated. A first margin is then computed and used to account for the estimated variation in the available transmit power. The available transmit power at a future time instance (e.g., the beginning of the next frame) is predicted and reduced by the first margin to derive a more accurate estimate of the available transmit power for the next frame. In accordance with another aspect, variation in the required transmit power for a particular data user is estimated and used in scheduling data transmission to this data user. A second margin can be computed and used to account for the estimated variation in the required transmit power for the data user. Whereas the first margin accounts for variation in the (overall) available transmit power, the second margin is specific to the particular link conditions experienced by the data user.

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