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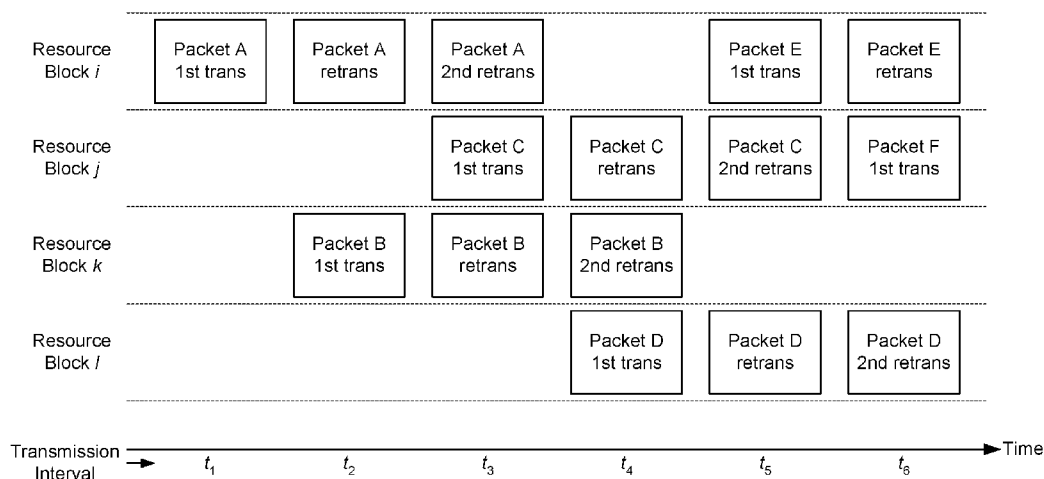
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(54) Title: COLLISION-FREE GROUP HOPPING IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: Techniques for supporting data transmission with little or no control overhead are described. In an aspect, data may be sent based on a hybrid scheme that utilizes a combination of group hopping for transmissions of new packets and static grouping for retransmissions of pending packets. For the hybrid scheme, a user equipment (UE) may be assigned different resource blocks in different transmission intervals based on a hopping pattern. The first transmission of new packets may be sent on resource blocks determined based on the hopping pattern. Retransmissions of each packet, if any, may be sent on the resource block used for the first transmission of packet. The UE may perform blind decoding to recover packets sent to the UE. In another aspect, semi-static group assignment may be used, and the UE may be assigned a group of resource blocks that may change periodically or based on trigger events.

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