## ABSTRACT

### System and method for communication resource allocation

A system and method for communication resource allocation, a resource including a time slot and at least one associated channel, said channel including at least one transmit and/or receive frequency usable during said time slot, in a mobile meshed network including a first set of radio transceivers communicating with one another via radio links, at least one group, comprising a second set of at least one radio transceiver of said first set, said second set including a master transceiver in a master/subordinate relationship with all the radio transceivers of the second set, a central radio transceiver of the network belonging to said first set. Said system is characterized in that it comprises first means for determining said group(s), second means for allocating all or some of said resources through assignment of a resource to a single group which is able to use said resource for one or more communications between radio transceivers of said group; or through allocation of a resource to a single first group which is able to use said resource for communication between radio transceivers of said first group and radio transceivers belonging to one or more neighboring destination groups, if none of the other resources sharing the same time slot with said resource is determined as belonging to one of said destination groups or to a different second group for links to one of said destination groups of the first group, except if the first group and the second group have no transceiver having a common radio neighbor in the destination groups. Finally, said system comprises third means for allocating, for all or some of the groups, all or some of the resources allocated to said group, to one of the radio transceivers in the group.

Reference: Figure 6