

ABSTRACT

Distributed method for selecting a configuration in mobile networks

Method for determining the configuration of a set of nodes N_i and/or links of a cluster (10i) possessing a cluster head, CH_k , characterized in that it comprises at least the following steps:

- a) triggering an information request (202) by interrogating one or more nodes N_i or links and asking the said nodes or the said links to evaluate for each communication channel an index $I_i[c]$ of communication quality, and then selecting a configuration (204) when the cluster head has received the indices of communication quality,
- b) verifying whether the indices of quality received comply with a given constraint, retaining the indices which satisfy the largest number of nodes N_i or links, and triggering a configuration selection procedure (204),
- c) if the configuration retained satisfies the set of nodes N_i or links interrogated, then updating (206) the list c of channels and communicating (207) this configuration to the nodes or links of the cluster,
- d) if not, updating (211) the list of communication channels, or remaining in the initial configuration of the set of nodes or links.

Figure 1 to be published