

AbstractReliability of Network Maps

- 5 A method is proposed for constructing a map (100) of an electrical distribution grid comprising:
- a) during at least one observation period and for each pair of consumer nodes, counting the number of times that a corresponding link forms part of a communication route;
 - b) build a graph in which the weight of each edge between two nodes is assigned depending on the number counted;
 - 10 c) partitioning the vertices of the graph into groups by applying algorithms arranged such that:
 - two vertices between which the weight of the edge is large and/or two vertices sharing a high number of common neighbors tending to be classified in a single group; whereas
 - two vertices classified in distinct groups tending to have a low or zero link weight and/or having few common neighbors.

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(Figure 1)