

Résumé de l'article de Rahul C. Shah et Jan M. Rabaey Energy Aware Routing for Low Energy Ad Hoc Sensor Networks

Algorithm 1 Setup phase

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 $Cost(N_D) = 0$ 
{Flood the network from  $N_D$  to  $N_S$  :}
for each intermediate node  $N_i$  do
  for each neighbor  $N_j$  of  $N_i$  do
    if  $d(N_i, N_S) \geq d(N_j, N_S)$  and  $d(N_i, N_D) \leq d(N_j, N_D)$  then
      Forward the request from  $N_i$  to  $N_j$ 
    end if
  end for
end for

for each intermediate node  $N_i$  do
  for each neighbor  $N_j$  of  $N_i$  do
    On receiving a request :
     $C_{N_j, N_i} = Cost(N_i) + Metric(N_j, N_i)$ 
     $FT_j = \{i | C_{N_j, N_i} \leq \alpha(\min_k C_{N_j, N_k})\}$ 

    
$$P_{N_j, N_i} = \frac{\frac{1}{C_{N_j, N_i}}}{\sum_{k \in FT_j} \frac{1}{C_{N_j, N_k}}}$$


    
$$Cost(N_j) = \sum_{i \in FT_j} P_{N_j, N_i} C_{N_j, N_i}$$

  end for
end for
  
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Algorithm 2 Data communication phase

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 $N_S$  chooses randomly a number
This number points a neighbor in the forwarding table  $FT_S$  out
Send the packet from  $N_S$  to this neighbor  $N_j$ 
Do the same thing for all intermediate nodes until the packet reaches the destination
  
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