
Best Balanced Shortest Paths

Silvana Trindade

21 de setembro de 2015

1 Pseudocode

Algorithm 1 Best Balanced Shortest Paths

Require: $G(V,E)$ and source s and destination d nodes

```
1:  $H \leftarrow 2$ 
2: while  $H \leqslant MAX_{hops}$  do
3:    $D \leftarrow \infty$ 
4:    $PATHS \leftarrow ModifiedIncrementalDFS(G, s, d, D, H)$ 
5:   if size of  $PATHS \geqslant 2$  then
6:     sort  $PATHS$  by the number of hops.
7:     for each pair of paths  $p$  from  $PATHS$  do
8:       if  $p$  is link-disjoint then
9:         return  $p$ 
10:      end if
11:    end for
12:   end if
13:    $H \leftarrow H + 1$ 
14: end while
15: return nil
```

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