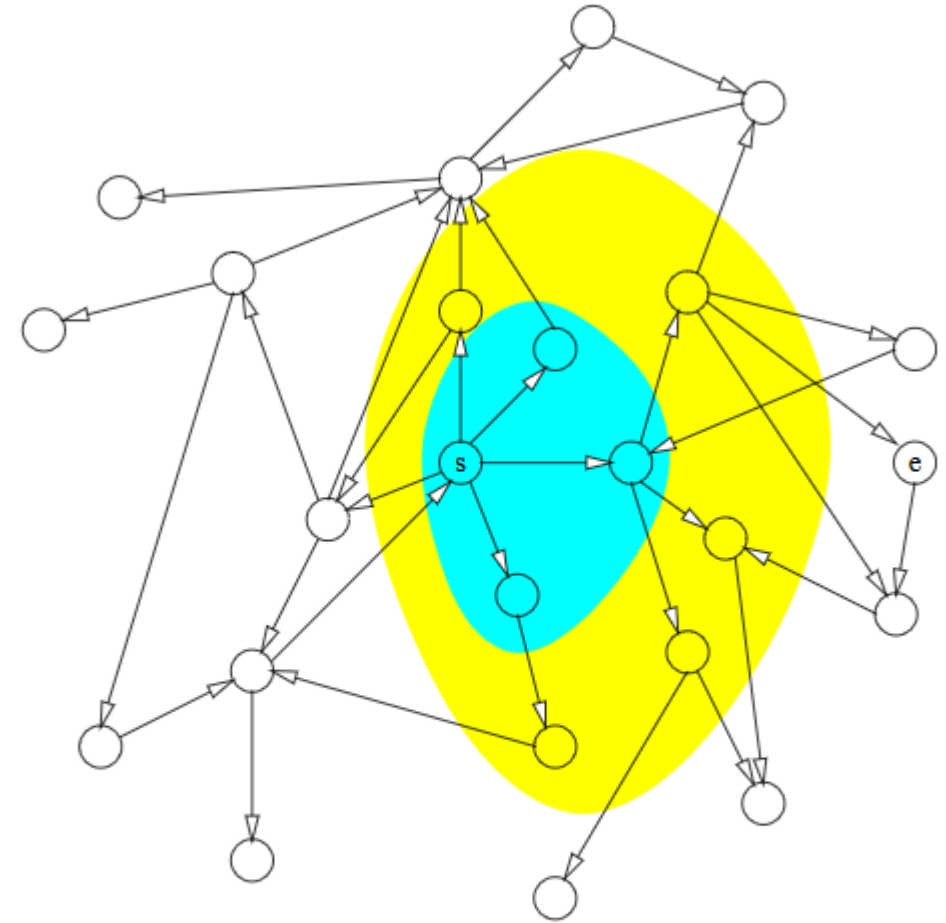
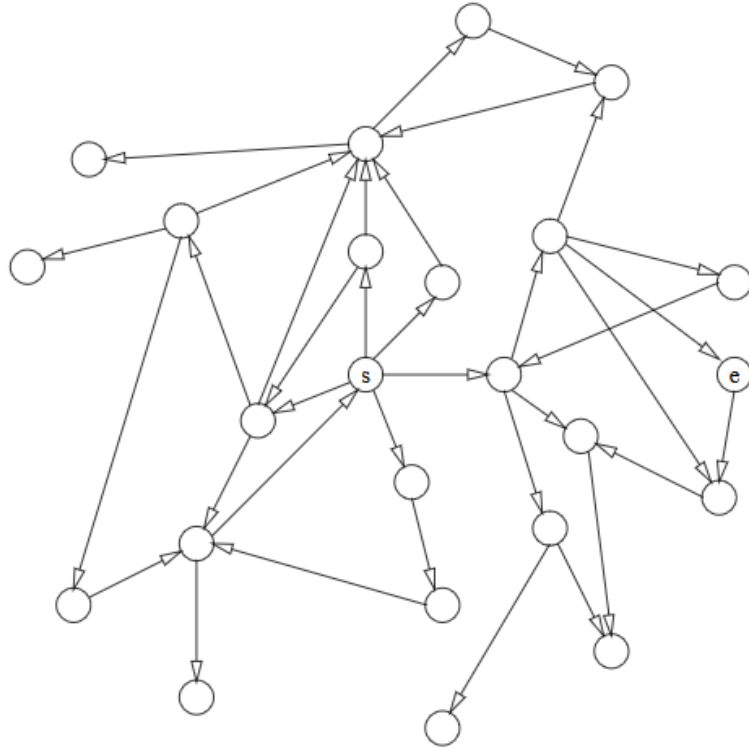


# heuristic search



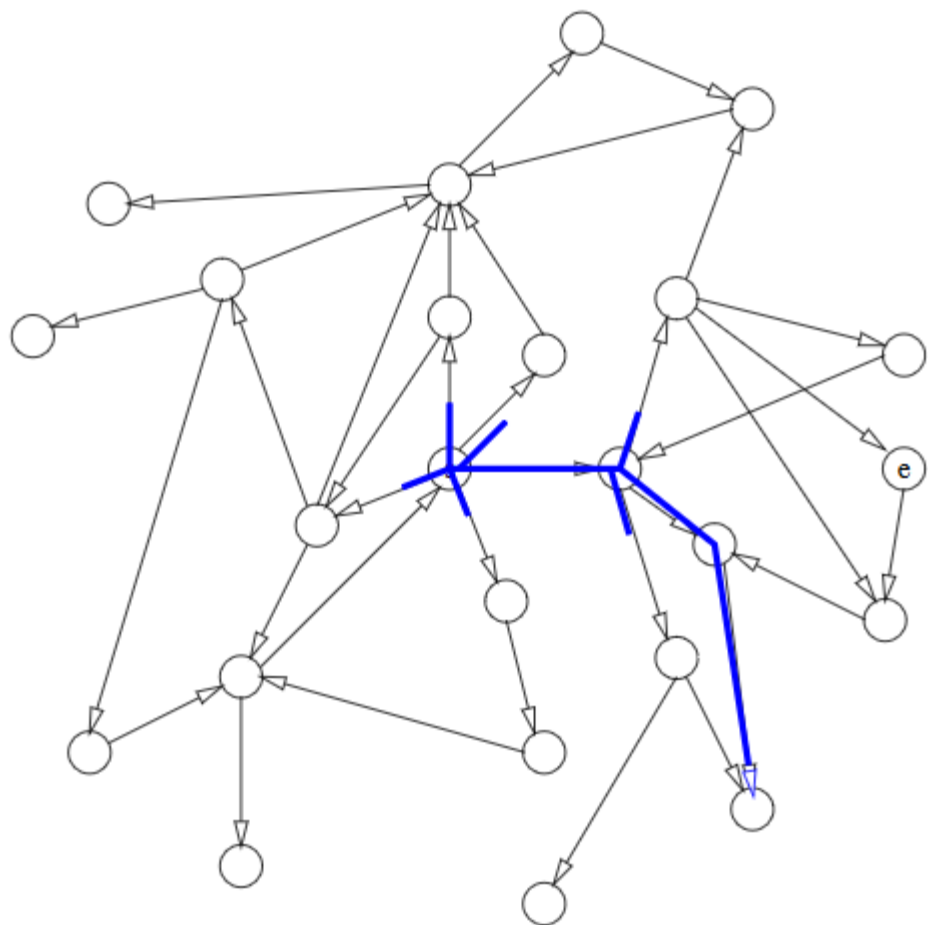
go from  $s$  to  $e$   
different paths exist

algorithms differ on:

- how to organize the search
- where to search first

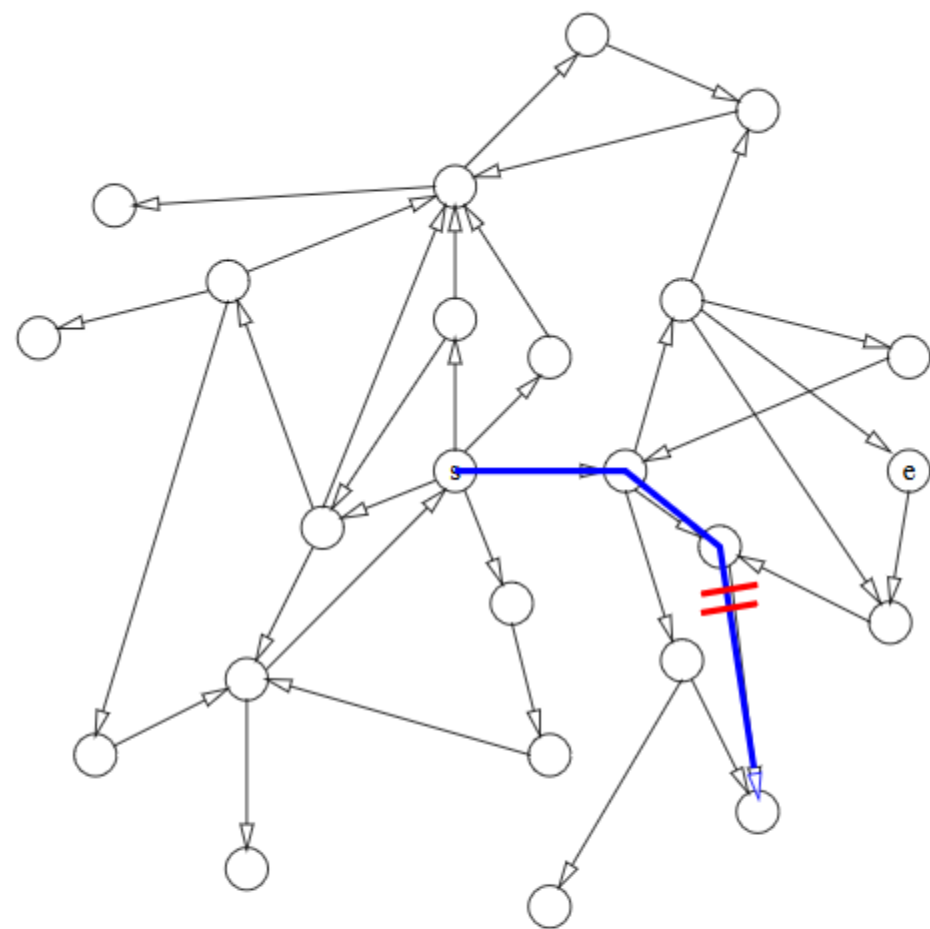
expand the explored area from  $s$

prefer expanding on the right



move to the right, but  
remember roads not taken

when on a dead end:  
go back to a crossroad and take a different direction



move to the right

remember that some road are bad  
even if they go to the right

do not take them again

## description of the methods

- A\*  
variants: incremental A\*, geometric A\*, iterative deepening A\*,
- backtracking
- LRTA\*

classification: families of search algorithms