

A -> B -> E -> F -> G =

f(n) = G(n) + H(n) = 11+0

Blind Searlis

Cost: - amandam

 $A \rightarrow B \rightarrow E \rightarrow F \rightarrow G = II$

In admissible association is a series

MA DOLHIN) & H'(n) was sat tunde

Goal state

cost.

3 <u>S</u> 11. So admissible

H(B)=2. Q丘II

H(F)=3 3511 278 278

(ii) Non-Admissible:

In this heuristic function

overestimate the cost of Reaching goal

H(n) > H'(n) to reach state cost.

from above example: - No Junetion a used

 $A \rightarrow D = f(n) = G(n) + H(n)$

= 1 + 5

 $A \xrightarrow{1} D \xrightarrow{3} G f(n) = G(n) + H(n)$

= 4+0

H(n) > H'(n)

H(D) = 5

5 > 4 (overall cost to reach G)

so this is non-admissible houristic

Search.

Feg: Dfs, BFs

Eg: Hill climbing,

A*, Ao*, Best first search

Fefficiency is low.

High efficient

Lyless time

Lyless tost.

Slower than Heuristr > finds solution

quickly

Lass memory is used > No large memory is

required

No function is used > Heuristic function is