Weighted Componet traffsis The objective here is to find the optimal combination of sensors to find the the hidden state. We begin with PCA & define on it as a projection of from sensor space y to hidden state X, s.t. Ppeq (Y,X) ~ Y = X Ppra= min Cor(X) PICA = min Cov(X)+ min (a/x) Pwch - min(or(x) + min (ost Sener(Y)

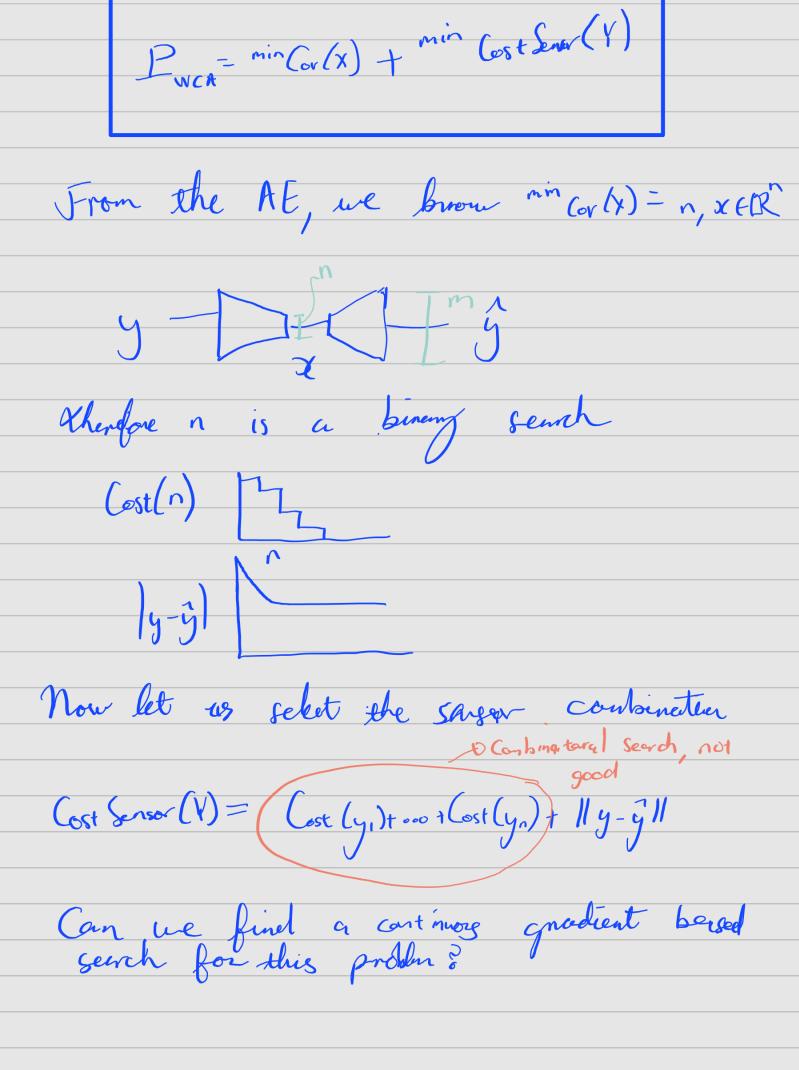
Nor P is a rap

IP (Y,X) I is our objective further

that bedrands or concerns, rendy

· Cost of DAG

· hidder state estimation



Crashiert berged serser selection The Peconsemetin loss may hold the consuer. We want to be able to recensioned by y with
the femesti server cost so me well into duce
the cost of sersor depleyment Xi. Nong ly-ŷl & & We want to [min||y-y||] & [min & Xi] Entoduce binny suiteles. by yr - yr - yr L= Zaibi + lly-ýll Cost of Sorger inchin

So to is designed by the cost of including sensers. B is the biney vector regresently the sensers. B = 0 indude sersers No No Yes A differt question is whether we can we this food the latent spece selection;

Let us strut by speefying f(x1)-x1011
We court, becerse that would imply me bener
1. ljain a sterte ar sterdy-state poller (QSS), can ne seach for 1. Let β be the model of β s.t. for $\beta = \begin{bmatrix} 1 \\ 6 \\ 6 \end{bmatrix}$ When the cost should be L= EB + | y-y| remid latent par error.

