

Objective function:

The way I see it I have two choices of how to represent the objective function if I want it to remain linear:

1. Using an index to determine which C is chosen. Like  $x_{ijvs}$  where s determines which C is being chosen. This gives  $E_v * S * V$  variables which is ofcourse making the problem quite big.
2. Or replacing that with the sum of the total distance to avoid having S extra variables (there might be several ways of doing this but I find the representation you suggested to be quite efficient and mostly fitting to the problem).
- (3. not really an option) Non linear representations with two variables, which is not possible..

Questions I need to clear to move on:

Q1. Why exactly is the representation  $c_{vs}d_{vs}$  not good?

Q2. What would be an example of an objective function that would satisfy what we are looking for?

I guess what I am missing at the moment is for it to be clear to me what (and why) I am looking for, cus right now it feels like I am searching for «something else» without actually understanding what I am searching for. Do you get a bit what I mean? The last few days I am mostly running in circles coming back to old representations of the form 1. or representations like 3 which makes it non linear or the representation you suggested (2).

I am also getting more and more panic for my exams and feel like I cant keep running in circles on this these days, because I am falling behind so hope we find a solution soon that we are both satisfied with so that I can finish the report before next friday. :) (if not we have to dicuss what other options I have regarding finishing/presenting the report for inf319..?)