

1. Chris G: ICCCN 2020 paper, push-relabel
 - a.
2. Vincent: Infocom 2020 paper (VM placement and migration)
 - a. DP \rightarrow weight on edges in fat-tree
3. Jingsong and Vincent: Infocom 2021 submission (VNF placement and migration),
 - a. Jingsong: DP
 - b. One PM pair between optimal and DP
4. Hung: Infocom 2018 extended to a journal paper ($2-1/q, *$):
 - a. Prize-collecting for multiple salesman
 - i. Each city has different prize to collect
 - ii. ??????????
 - iii. Awerbuch: prize-collecting for single salesman (more difficult to solve than k-TSP, generalizes k-TSP)
 1. Approximation algo.???, **
 - 2.
 - b. Traveling salesman problem (TSP)
 - i. 2-approximation: minimum spanning tree
 - ii. k-TSP: travel to k other cities with min. cost,***
 - iii. k-stroll: carson-SM (s-t), he travels at least k cities, with min. cost
 - c. Infocom 18: multi-traveling salesmen: visit k cities with min cost
 - i. Generalized kruskal's algorithm
5. Yuning/Shanglin:

- a. MASS 2020, Shanglin's MS project
 - b. Game theory, Yuning's MS project
 - c. **Priority**, not all data can be stored
 - i. Storage is not enough
 - ii. Energy is not enough
 - iii. Maximize total priority of data packets
 - 1. SECON 2013: abstract, introduction, problem statement/formulation, algorithm, experiment
 - 2. Chris G: distributed push-relabel
 - 3. Journal paper, IEEE Transaction Journals
6. Phillip, Chris M, Ivan, Jennifer: machine learning in networking
- a. Presentation, general idea of ml algo (???) to solve what problem; 15-20 mins
 - b. Fat tree implementation, Jennifer is almost done.
7. Payman: ICC 2016, a journal, consider both replication cost and server energy cost and minimize the sum, multi-objective optimization problem.