

Examen Project management (master business engineering) Januari 2022

1. Calculate resource lower bound & sequence lower bound for a given delaying alternative.
2. labeling algoritme Kelley Fulkerson
3. stc algoritme improvement heuristic
4. 5 small questions
 - a. how many minimal forbidden sets
 - b. $FS' =$
 - c. constraints of on/off time index variables
 - d. question about daughter of one point crossover
 - e. what is the cost of 12-24/13

Environmental and Transportation Economics

1. Road congestion, similar to exercise 2 for Chapter 3
 - a. Compute the ideal arrival time and capacity of the airport
 - b. Suggestion to let all airlines bid for the right to arrive at a given moment. How much would this proposal generate?
 - c. The capacity is increased with a third
 - i. What is the welfare benefit without fine toll
 - ii. What is the welfare benefit with fine toll
2. Assess the following statements:
 - a. "The marginal cost for Public Transport is 0, so the fare has to be 0."
 - b. "The frequency of each bus line has to be at least 4 busses an hour"
3. Exercise with Marginal Abatement Cost: what is the permission price, total cost for each of the sectors and total social cost?