

Social Network Analysis – Fall 2021

Assignment 3

(Due November 10th, 2021)

Q1. Construct a payoff matrix for a 3-player game, draw the best-response graph for the game. (Note that in the class we have discussed best response graphs for 2-player games only). How do we identify a Nash equilibrium in 3-player best-response graphs? How can you extend this definition to k-player best-response graphs? *[5 Marks]*

Q2. The Information Cascade model that we studied is very simplified. In real-life there will be many more parameters we need to consider.

i) State a parameter that will be required in the real world and justify why will it be required.

ii) Rework the cascade model determining the probabilities for both the individual decision and multiple signals using this additional parameter. *[5 Marks]*

Plz email PDF/Word version of your answers to:
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