

- I still haven't fixed neither the definition of path nor the Theorem 3, I don't know how to make them more correct or easier to understand.
- Idea: Did we found a lower bound for the conversion speed bases of the smaller influence on the graph in the case of the classic update?
- In the proof of confirmation bias, I used a smaller version of the original papers notation  $f_{confbias}$ ,  $f_{cb}$ . But this has a serious problem, it hides the fact that  $f_{cb}$  depends on two agents and a time. Although this is a big problem in terms of notation, it does not matter inside my proof, because it either just matter that  $f_{cb} > 0$  or I replace it by  $f_{cbmin}$  anyway. Since the notation was already pretty heavy I chose to use the smaller one, but it is not that hard to fix in case you think it is better to change.
- When I was addressing the corner cases I was not as formal as in the rest of the proof because, after agreeing upon Lemma 6, the proof gets so intuitive that I did not think that more formalization was needed.
- Since the proof of the corner cases uses on the same technique of Theorem 1, I put it on the end of the proof, thus the reader is already comfortable with the idea, please tell me if it got confusing.
- In general, other than the corner cases, the proof is the same as the previous one but with a different constant factor.