

The Elo rating system is used widely in online dating app to determine who gets seen. Tinder specifically uses the ELO score to assign ratings for their users, which means the more people swiped right on your profile will boost your score, the algorithm then took the corresponding ELO scores and get people in the same rating ranking to match.

Transparency

Tinder never published the full documentation or data on how the ELO score is being used. On Tinder's blog, it briefly talked about there was a 'score'. Whether these algorithms are designed to make successful matches, or keep users on the app longer is unclear.

Contestable

A system is contestable should be built in ways that allows users to effectively seek intervention in a given automated decision. (pg. 903) It ensures the right of and interests of the people whose information is being used are protected. Knowing your dating life is controlled by Tinder's algorithm, but there's not really much people can do to influence this type of algorithm, beyond paying for the premium services.

Accountable

Holding an algorithm system accountable requires an understanding of how it works as a system and in context. However, it's really no way in knowing how the scoring algorithm is helping your dating experience, there's almost no metrics to suggest that whether a higher matching percentage correlates with relationship success.

Fair

Tinder user are seeing different pool of people even they are from the same area. Other people's reaction is a proxy for your attractiveness ranking, it reinforced the general social beauty standard, that can raise profoundly ethical concerns, and such normative assessments are taken for granted in the service Tinder provided. And this can results in more isolations and mislabels in underrepresented racial and gender community, which can be a source of unfairness.