

CONICET

Friend or Foe: Studying user trustworthiness for friend recommendation in the era of misinformation

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And what about recommendation?

Recommending <u>similar</u> elements

NOT sufficient to ensure reliability!

We need **Relevant AND Trustworthy**



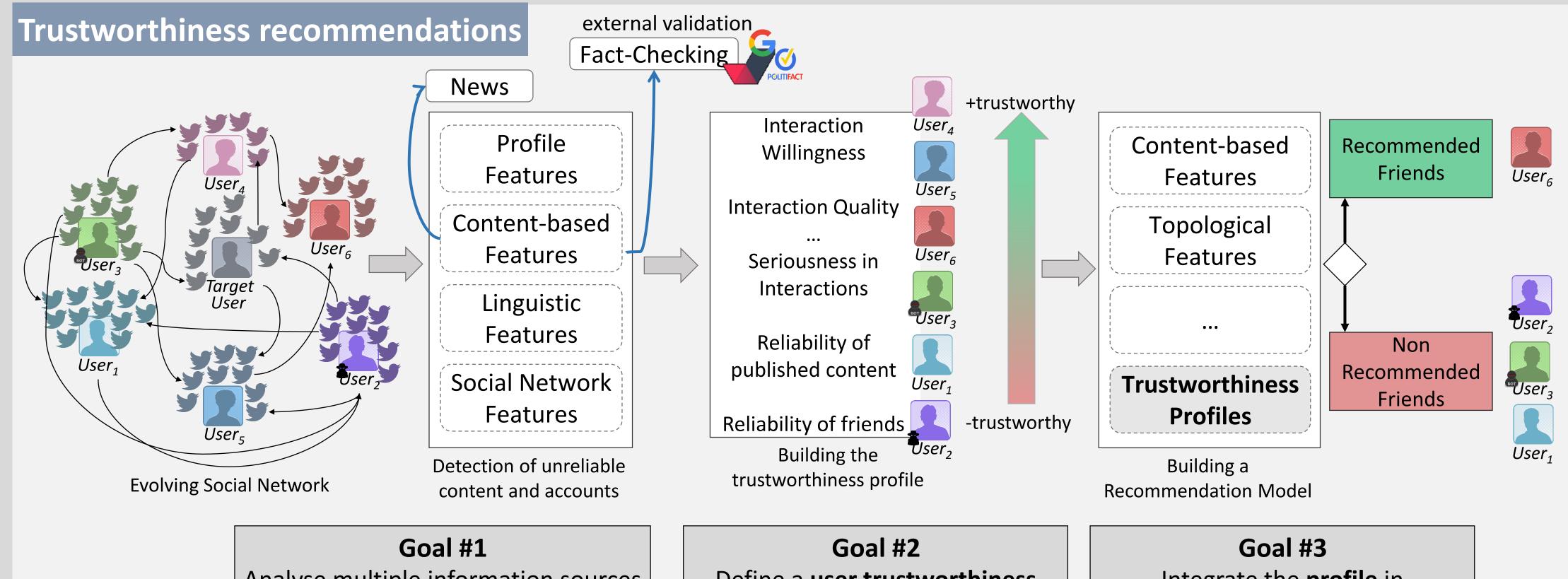
Measuring trustworthiness has been important in psychology and social sciences.

Few studies have incorporated this concept to:

- Social media
- The proliferation of unwanted content
- Recommendations

New challenges!

- How to determine the trustworthiness of friends, content, locations in social media ...
- How such trustworthiness can be integrated into recommender systems.



Analyse multiple information sources to detect unreliable content, false accounts, bots, spammers...

Define a user trustworthiness

profile based on <u>user behaviour</u> and the <u>detection of unreliable</u> content and accounts.

Integrate the **profile** in recommendation systems!

What we have already done

- Explored the dynamics of social networks.
- Studied the importance of personality and user behaviour in user recommendation.
- Proposed a recommendation technique that adapted the recommendation criteria to the previously selected followees. • Defined a metric of user influence.
- Exploited the linked nature of social media for community detection.
- Applied community detection for personalised recommendation.
- Explored the detection of aggressive content and aggressors in the context of cyberbullying.
- Studied writing styles in relation to personality and gender.

There is still work to do!

We are currently working on <u>Goals #1-2</u>

- Defining rumour detection.
- Defining spam detection.
- Refining aggressive and hate speech detection
- Extending unreliable content detection
- for unreliable user detection.
- Integrating everything in the profile!
- More Evaluations!!!

