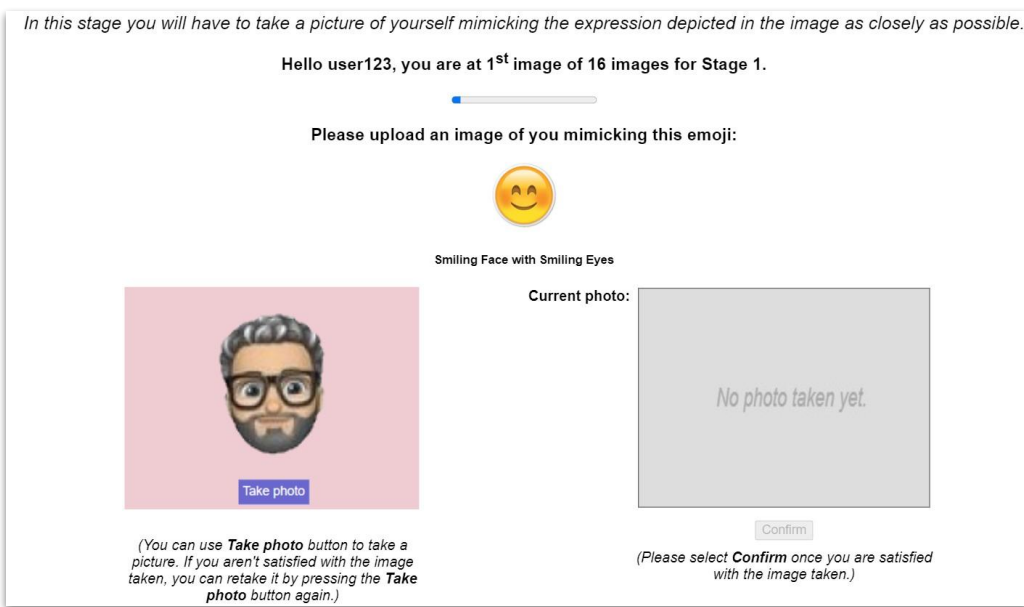


Solving Partially Observable Privacy Conflicts with Multi-Agent Reinforcement Learning

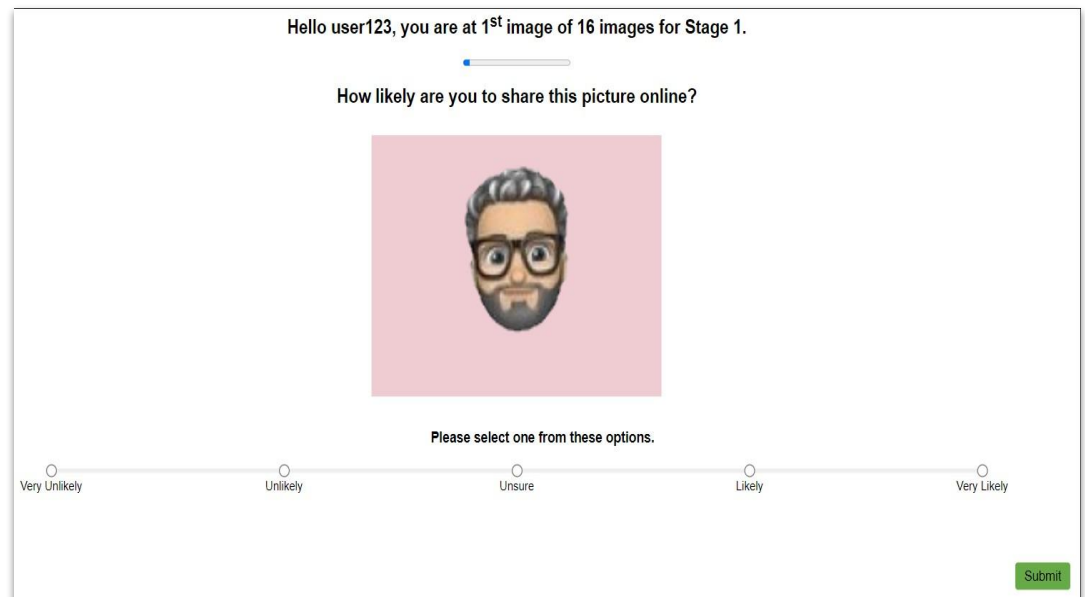
Hüseyin Aydın
 Postdoc Researcher
 e-mail: h.aydin@uu.nl
 Supervisor: Pinar Yolum

1. Analyzing Privacy Dynamics with Gamified Auctions*

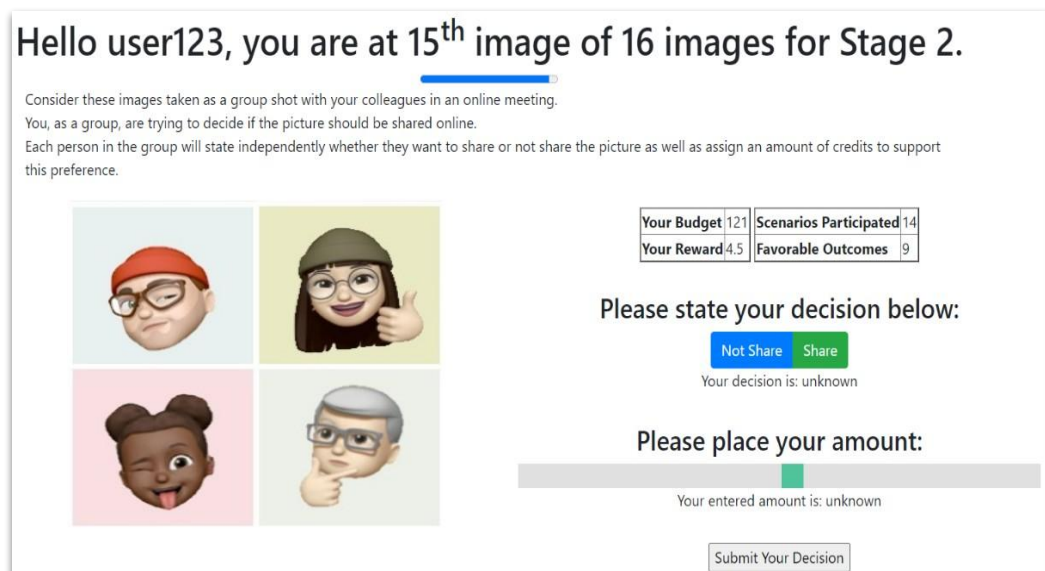
- Mimicking a given emoji



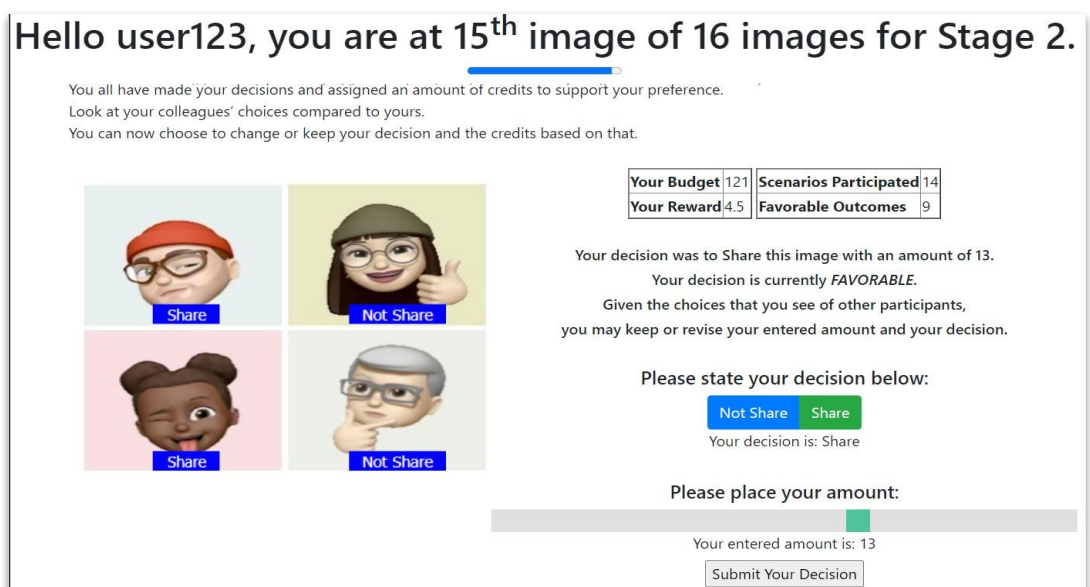
- Ranking tendency to share



- 1st round of group decision in terms of choices and bids

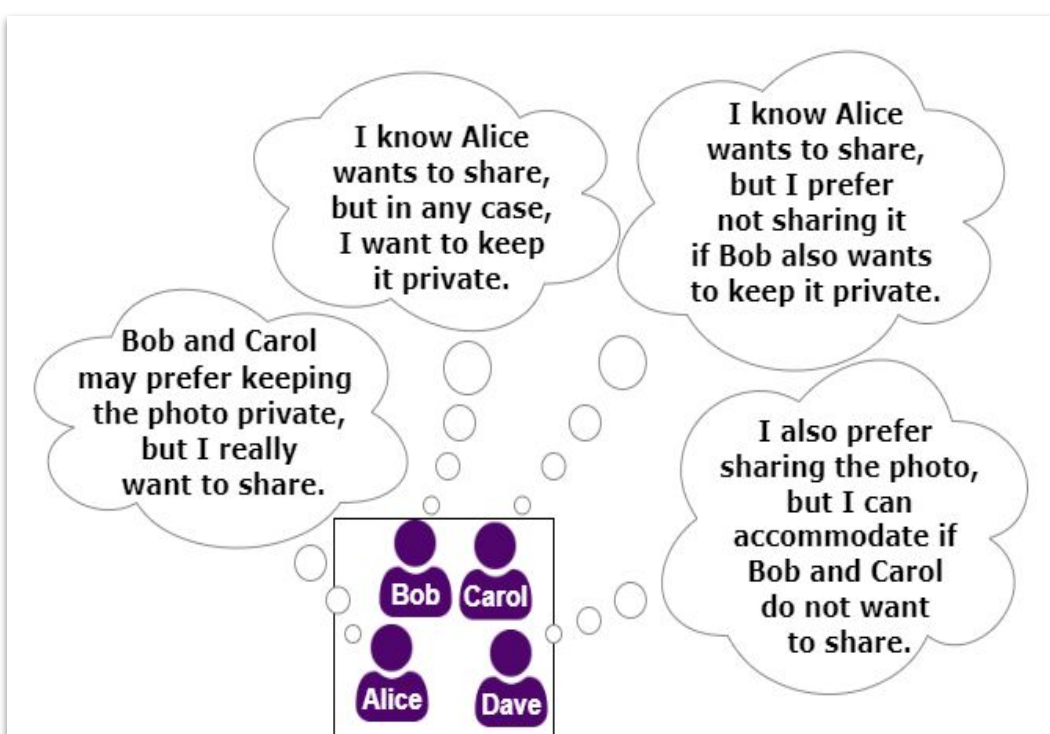


- 2nd round of group decision, after seeing others' decisions

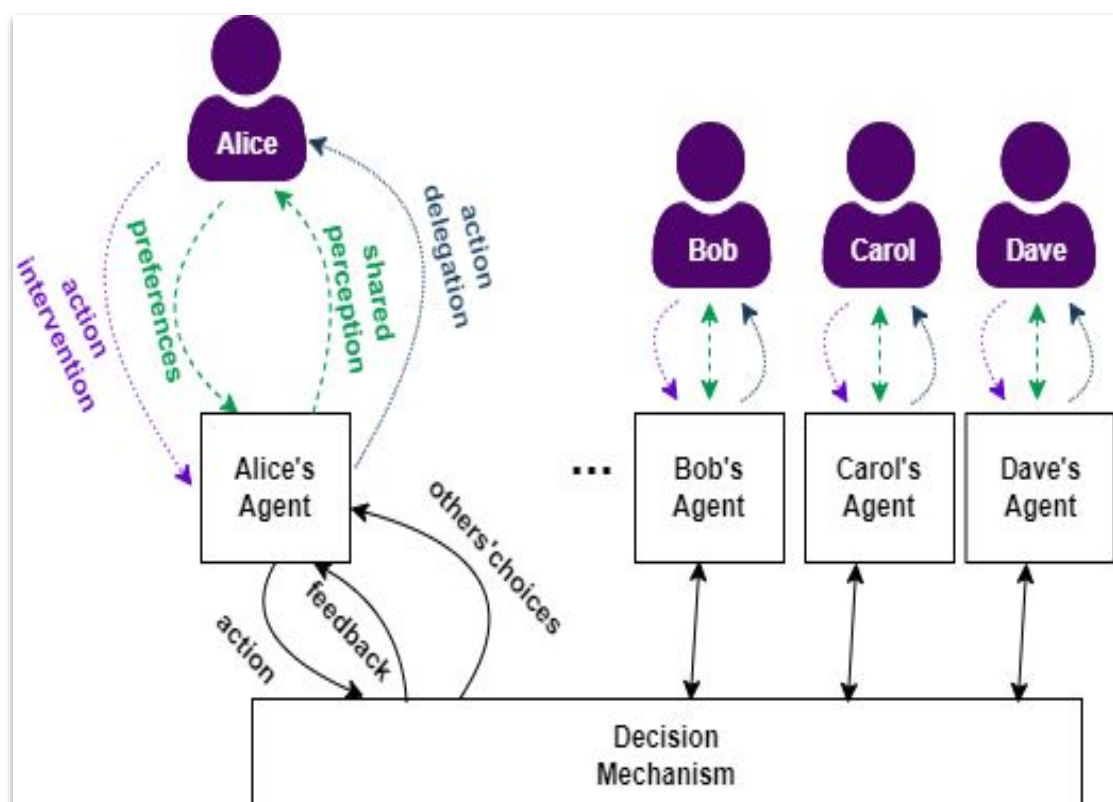


2. Our Insights from Observed Behaviors

An example scenario:



3. Proposed Framework



* This has been studied in collaboration with Onuralp Ulusoy, Ilaria Liccardi, Tim Baarslag.