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1 HUMAN-AI COLLABORATION IN A COOPERATIVE GAME SETTING: MEASURING SOCIAL PERCEPTION AND OUTCOMES[1]

HCI researchers have spent a lot of time figuring out what factors can contribute to the success of Human-AI collaborations and outcomes in computer-mediated communication where people collaborate with AI in different domains. Social perceptions can contribute to this success. This is a paper by IBM research and it presents an AI-driven Cooperative Partially Observable game that requires players to guess words based on clues provided by an AI agent. The paper investigates the impact of identity revelation(human or AI) and the impact of that identity on the outcomes of the Human-AI collaboration.

2 CONCEPTUAL METAPHORS IMPACT PERCEPTIONS OF HUMAN-AI COLLABORATION[2]

This paper is a little longer, but it's a good read. It investigates the effects of metaphors tied to AI agents on their success. In connection to the metaphors used to explain the agents, it studies users' intention to utilize the agent, their willingness to cooperate with the agent, and the agent's perceived usability. The paper conducts an empirical investigation into the relationship between metaphors utilized, user expectations, and user reception and experience when utilizing various conversational agents.

REFERENCES

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[2] Pranav Khadpe et al. "Conceptual metaphors impact perceptions of human-ai collaboration". In: *Proceedings of the ACM on Human-Computer Interaction* 4.CSCW2 (2020), pp. 1–26.

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