

Investigating Contextual Variations in Explaining Plausible Narratives of Social Intention within a Hospital

1. Introduction

Human intention is difficult to understand since it is only recognised once it has been realised.

There is a current lack of research regarding how intent changes based on contextual variations, how intent can be estimated, and how intelligent systems can recognise changing intentions.

Hospitals provide a unique setting due to emotional vulnerability, high stakes decision making, and protocol driven situations.

2. Research Question

How do contextual variations of cues affect the intention recognition of intelligent systems within a Hospital?

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3. Methodology

1. Conduct a literature survey
 - Determine search query and collect papers
 - Identify hospital scenarios and extract information
2. Create a case study inspired from literature
 - Determine situational components
 - Develop variations to identify changes in intention

4. Literature Survey

Identified papers were sorted into 2 categories based on the presence or absence of intelligent systems to identify current applications and gaps. This division also changes the open endedness of the scenarios.

3 roles were identified across scenarios that differ in intents - Patients, Clinicians, and Family Members. These roles also exhibit different reactions, expectations, and understandings in the scenarios.

5. Scenario Creation

A Clinical Decision Support System helps a doctor diagnose a patient and provides communication strategies based on the patient's non verbal cues.

Variations studied in the Scenario include:

- Change in time constraints
- Uncertainty in diagnosis
- Presence of a Family Member
- Annotators used by researchers to train the intelligent system for the scenario

6. Conclusion

By studying how variations affect social intent, future research into this field can be supported. However, attempting to model the components of scenarios provides a challenge due to the ambiguity.

Responsible Supervisors

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