The Cross-Cutting Semantics of Maryland Virtual Patient (MVP)

Sergei Nirenburg, Marjorie McShane, Stephen Beale (University of Maryland Baltimore County)
Bruce Jarrell, George Fantry (University of Maryland School of Medicine)

MVP is a simulation and tutoring environment developed to support training in clinical medicine.
- It represents a new form of human-computer interaction.
- The human user can virtually interact with the patient, using natural language to elicit the patient's history and symptoms.
- The virtual patient responds to the user's queries, allowing for a more realistic and interactive learning experience.

Virtual Patient Cognitive Architecture in MVP

This is a view of the User-VP interaction screen.

The cognitive state of the VP permits it to continuously experience and reason about its own state, make decisions, and learn about the patient's actual state. The VP represents patient's cognitive processes and their interactions, allowing for a more comprehensive understanding of medical scenarios.

Virtual Patient Cognitive Architecture in MVP

Here are excerpts of the test meaning representation (TMR) of the sentence: The cloudy sky is extended and contrasted with a pristine tree.

The patient creation interface has the following features:
- A library of patients is available for selection.
- The patient's physical and mental state can be customized.
- The patient's responses and behaviors are generated based on predefined models.