

UMLS-Based Approach for Developing VoiS: Voice-Activated Conversational Agent for Self-Management of Multiple Chronic Conditions

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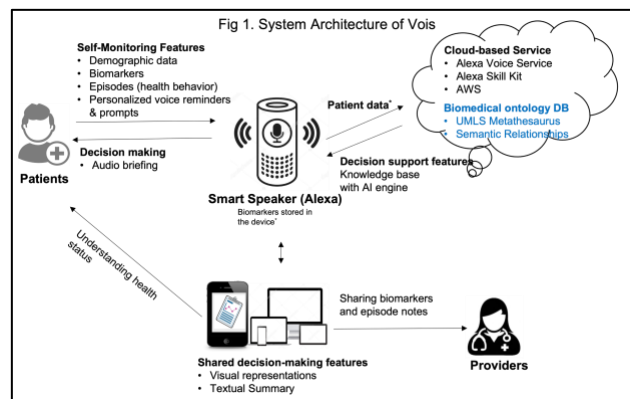
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This abstract proposes a system design for an ontology-based conversational agent (CA) for the self-management of chronic conditions.

In the proposed voice-activated self-monitoring support (VoiS) application, the research team plans to integrate the Unified Medical Language System to make the agent better understand lay terms from patients and properly map those terms to medical concepts. This automated process is

expected to improve the user experience in two folds: a) promote the quality of communication between the patients and health providers and b) make the VoiS app more responsive to user inputs, overcoming accepting only constrained user inputs (e.g., multiple choice of utterance). Fig. 1 illustrates the overview of the system architecture of VoiS. This conversational agents design shows how established ontology can be leveraged in a way of improving the user experience of health consumers.



ALISE RESEARCH TAXONOMY TOPICS

mobile systems; ontologies

AUTHOR KEYWORDS

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