

System and Method for User Interface Management to Provide an Augmented Reality-Based Therapeutic Experience

Intellectual Property

Patent Pending

Lead Inventor

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Licensing Contact

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Desired Partnership(s)

Licensee
Commercial Development

Categorized As

Artificial Intelligence
Computer Vision
Facial Recognition

Unmet Need

Dementia impairs the quality of life for not only the individuals with dementia but also their family and caregivers. Loss of the ability to recognize the faces of family, caregivers, and other people known to the person with dementia is common and may cause safety concerns for not only the individual but also the family. Additionally, cognitive decline compromises the ability of individuals with dementia to provide adequate self-care and may require the individuals to receive home healthcare or other healthcare services, increasing the financial burden on the family. As a result, individuals with dementia may need to be removed from the home and placed in alternative living facilities.

Solution/Technology

This system uses image captured by a camera of a computing device and facial recognition to identify persons, places, and objects encountered by a person with dementia; retrieves the customized information associated with the identified person, place, or object; and displays the retrieved information to the person with dementia via the device, promoting visual recognition to support families affected by dementia to live more successfully and safely at home.

Advantages

- Ability to use personal images significant to the individual with dementia supports visual recognition training adherence
- Augmented-related-based experience provides engaging activity for individuals with dementia and their caregivers to bond over
- Customized information about significant images enhances user experience and interest
- Expanded ability to retrieve information regarding persons, places, and objects addresses key areas of recognition failure