Abstract

There is no end of objects that could be made “smarter,” some being more suited to this than others. Mirrors, for example, provide a large surface ideal for displaying information and interacting with. This paper depicts the design and development of a smart mirror that represents an elegant interface for glancing information for multiple people in a home environment. Face-recognition based authentication is used to detect the user. It provides a webpage based interface to access data feeds and other services. The data feeds use web service based communication to extract data packets available through various APIs offered by websites. All the computing required for this project is done by a Raspberry Pi 3 computer along with a webcam used for face detection and a LCD panel placed behind the mirror to display the interface.

References

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3. NEOD : NEOD Framed Mirror TV. http://www.neod.org/

Index Terms

Computer Science
Image Processing

Keywords

Smart Mirror, Raspberry Pi, Facial Recognition, OpenCV.