Typicality Degrees to Measure Relevance of the Physiological Signals

Assessing user's Affective States

Author(s)

Joseph Onderi Orero

- Strathmore University, Kenya

Abstract Physiological measures have a key advantage as they can provide an insight into human feelings that the subjects may not even be consciously aware of. However, modeling user affective states through pysiology still remains with critical questions especially on the relevant physiological measures for real-life emotionally intelligent applications. In this study, we propose the use of typicality degrees defined according to cognitive science and psychology principles to measure the relevance of the physiological features in characterizing user affective states. Thanks to the typicality degrees, we found consistent physiological characteristics for modeling user affective states.

Event [Special Session on recognition Of Affect Signals from physiologIcal data for Social robots (OASIS 2014)](#)