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IOT structured Long-term Wearable Social Sensing for Mental Wellbeing

Abstract

Long-term wellbeing monitoring is an underlying theme for evaluating health status by collecting physiological signs through behavioral traits. In alignment with internet of things (IoT), non-intrusive and trustworthy wearable social sensing technology holds a potential way for researchers to find and establish the interrelationships between unobtrusive social cues and physical mental health (PMH). This paper implements an IoT structured wearable social sensing platform with the integration of privacy audio feature, behavior monitoring and environment sensing in a naturalistic environment. Particularly, four privacy protected audio-wellbeing features are embedded into the platform to automatically evaluate speech information without preserving raw audio data.