

Emotion Aware Robot by Emotion Estimation Using Biological Sensors

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I. KEYNOTE ABSTRACT

Emotion aware technologies have been very attractive topic these days to understand the internal state of the human through some methods and sensors. We consider if we apply the human's emotional state for nursing/care and communication robots, it would be possible to increase QoL through emotion satisfactory communications through these artificial devices. There are various technologies that are required for achieving the purpose. In this discussion, we will introduce an approach that collects biological information using EEG, and heartbeat sensors and estimates emotion with some models to apply it for the robot. There are challenging topics to decide the behavior responsively. The works would be one of the new fields of the emotion aware computing applications.

II. SPEAKER'S BIOGRAPHY



Midori Sugaya Ph. D. is Professor of Department of Computer Science and Engineering, Shibaura Institute of Technology. She received her Ph.D. in Computer Science from Waseda University in 2010. She received her Master of Computer Science from Waseda University in 2004. Prior to joining Shibaura Institute of Technology in April 2013, she was a lecture professor in Yokohama National University. As a researcher, she involved a research of national foundation and also belong to Research and Development Center of the project from 2008-2010. She currently concentrates on the emotional aware robot and application systems, sensor integrated environment systems, and middleware for future IoT devices.