Special Issue

Emotion Sensing and Robotic Emotional Intelligence

Message from the Guest Editors

Machines are increasingly being given the intelligence to perform more complex tasks, but they remain poor at capturing human emotions. Although both sense and emotion are important for machine automation, the techniques that have been developed for the latter lag far behind the former. This is because existing emotion recognition methods are insufficiently accurate for real-world use—a serious problem for tasks that require human–machine interaction. As sensing and artificial intelligence technologies advance, machines are interacting increasingly naturally with humans, recognising human emotions by analysing multiple sensing modes. However, machines remain poor at understanding human emotions in real-world uncontrolled conditions. This Special Issue seeks original technical and review papers about the latest technologies for improving machine emotional intelligence in human–machine interaction, including but not limited to machine emotional intelligence for robotics, facial expression recognition in uncontrolled conditions, multimodal sensor data fusion for emotion recognition and emotional cues in speech.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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