

Interaction with an Autonomous Robotic System through Emotion Recognition via Voice

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Abstract:

This article aims to present an attempt to integrate autonomous navigation and emotion recognition through sounds. We present neural network models, data processing in both the time and frequency domains, as well as SLAM applications for position identification algorithms. All components work together within the ROS framework to determine the vehicle's speed.

Keywords:

Neural networks, Emotions, Navigation, SLAM, ROS.