Human-Drone interaction for relationship building using emotion recognition

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ABSTRACT
Robots are increasingly becoming part of our daily lives which makes human-robot interaction an important topic to design for. In this study, we explore the technologic possibilities of a domestic drone building a relationship with a human using emotion recognition. To our knowledge, emotion recognition has not been used for human-robot interactive relationships with drones. A prototype was made that was able to detect the emotions using a webcam and a neural network. The person would see a screen with the drones eyes responding differently to their emotion based on their relationship level. By our research, we are one step closer to drones becoming part of our daily lives.

Keywords
Domestic drone, emotion recognition, neural network, Human-Robot Interaction

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