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RESEARCH ARTICLE

Hand Gesture Recognition Based Real-time Command System

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Abstract— Even after more than two decades of input devices development, many people still find the interaction with computers an uncomfortable experience. Efforts should be made to adapt computers to our natural means of communication: speech and body language. The aim of this paper is the proposal of a real time command system through hand gesture recognition, using general-purpose hardware and low cost sensors, like a simple personal computer and an USB web cam, so any user could make use of it in his industry or home. The basis of our approach is a fast segmentation process to obtain the hand gesture from the whole image, which is able to deal with a large number of hand shapes against different backgrounds and lighting conditions, and a recognition process that identifies the hand posture for different control applications.

Key Terms: - Hand gesture; Image; Segmentation; Recognition

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