Abstract

Eigenface based recognition is widely used to identify individual faces. This technique is commonly used in human recognition domain. In this research, we are investigating for implementation of a possible solution; which can be used to identify species. The eigenface technique is a novel approach in animal recognition domain [1, 2]. In this application, cats and possums are targeted as species of interest. The main reason for targeting cats and possum is, these introduced species are classified as threat to New Zealand natural environment and native wildlife. The next phase of this research project is to implement a vision based trapping system. This paper explains a novel classifier to use with eigenface techniques to separate different species.

References


Index Terms

Computer Science

Artificial Intelligence

Keywords

Euclidean distance, face recognition, animal detection