

The Use of Artificial Intelligence in Acoustic and Image Monitoring of Malaysian Wildlife

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Abstract

In 2024, the IUCN Red List categorized 105 animal species in Malaysia as critically endangered, while 205 animal species were endangered. Furthermore, a total of 451 animal species in the country were considered as vulnerable. To gauge the health of Malaysian wildlife, scientists are using image and acoustic monitoring to gain valuable information about the presence, distribution, and behavior of species. In recent years, the progress of technology has caused the integration of artificial intelligence (AI) techniques in monitoring of wildlives in many other countries, but AI techniques catered specifically towards Malaysian wildlife are lacking and have huge potential. This research aims to investigate how far AI algorithms can be used to automate acoustic and image monitoring of Malaysian wildlife.

Keywords: *Artificial Intelligence, wildlife monitoring, biodiversity conservation*