**RESOLVING MAN-ANIMAL CONFLICT WITH ELEPHANT DETECTION USING CONVOLUTIONAL NEURAL NETWORK**

**Abstract:**

Nowadays farmers who cultivate crops adjoining forest areas face a serious threat from wild animals like elephants and wild boars. These animals trespass into fields and sometimes into villages in search of food and water. This is mainly due to deforestation and intrusion of humans into the perimeter of the forests and corridors used by wild animals for foraging and migration.

Such human-animal conflicts leads to colossal damage of agricultural crops and also at times causes loss of precious human life who are working in the field. The solution for this problem is to devise an early warning system that could detect the arrival of elephants sufficiently before the actually raid a field. The objective of this project is to detect elephants by using Convolution Neural Networks and running Deep Learning algorithms on images that are captured by cameras installed at likely routes of elephants’ movement.

The system once it detects an elephant will notify through SMS a set of mobile numbers that will serve the purpose of an early warning system. This system is trained with 637 images of positive and negative samples on Alexnet. The system gives 98% accuracy on the test set.

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