

EleSeisAlert: Seismic Sensing-based Elephant Movement and Alert System

EleSeisAlert: is a seismic sensing-based customizable intelligent system which is capable of interfacing with a number of seismic sensors, in-built of detection and recognition algorithms. Seismic sensors could detect single elephant movement from a distance of approximately 20m. This system can be adapted for a wide range of applications by training it in the relevant experimental sites. This system has significant application as:

- Generation of alert signals on the presence of elephants to the rail authorities or signal to ward off elephants in identified corridors.
- Smart perimeter monitoring system to monitor the movement of wildlife from the sanctuaries into cities and illegal movement of humans (poachers) into sanctuaries/parks.
- Smart highway's wildlife monitoring system to monitor the movement of wildlife at identified animal corridors.



Field Testing at Raja Ji National Park, Dehradun

Digging trench and Laying of Geophone Sensors



Seismic Sensing Node and Control and Command Server for alert generation

