Natural Disasters Intensity Analysis and Classification Using Artificial Intelligence

OBJECTIVES:

Natural catastrophes not only disrupt the ecology that supports human life, but they also obliterate important infrastructures and properties in human society, and sometimes even cause the ecosystem to undergo irreversible alteration. Natural occurrences like earthquakes, cyclones, floods, and wildfires are examples of phenomena that might create disaster. In order to reduce ecological losses from natural disasters, several deep learning approaches have been used by numerous researchers. However, because of the complex and unbalanced picture structures, natural disaster identification still has difficulties. We created a multilayered deep convolutional neural network model that identifies natural disasters and estimates their intensity in order to address this issue. To record, the model makes use of a built-in webcam.