NATURAL DISASTER INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELLIGENCE

S. No	PAPER	WORK	LINK	TOOLS FOR ALGORI THM	FINDINGS
1	Natural Disasters Intensity Analysis and Classification Based on Multispectral Images Using Multi-Layered Deep Convolutional Neural Network	Deep learning, natural disasters intensity and classificati on, convolutio nal neural network	https://www.researchgate.net/publication/350830884 _Natural_Disasters_Intensity_Analysis_and_Classification_Based_on_Multispectral_Images_Using_Multi-Layered_Deep_Convolutional_Neural_Network	Convolutio nal Neural Network	The proposed model works in two blocks: Block-I convolutional neural network (B-I CNN), for detection and occurrence of disasters, and Block-II convolutional neural network (B-II CNN), for classification of natural disaster intensity types with different filters and parameters
2	Recent Efforts in Earthquake Prediction (1990-2007) Ashif Panakkat and Hojjat Adeli	Data collection, Seismicity, Mathemati cal prediction	https://www.researchgate.net/publication/248880503_Recent_Efforts_in_Earthquake_Prediction_1990-2007		The most significant recent efforts in predicting the three earthquake parameters, namely, the time of occurrence, epicentral location, and the magnitude of future earthquakes are reviewed.

					Prediction studies can be broadly grouped based on the basic approach, which vary from purely theoretical geophysics, to genetic mutations and biology, to statistical, mathematical, and computational modeling of earthquake parameter data recorded in historical catalogs of seismic regions. The papers reviewed in this article are classified into two groups: (1) studies based on recording and analyzing earthquake precursors (seismic monitoring); and (2) studies based on historic earthquake data analysis.
3	UAV Image-based Forest Fire Detection Approach Using Convolutional	Wildfire detection; fire classificati on; fire segmentati on; vision	https://www. researchgate. net/publicatio n/335865644 _UAV_Image -based_Fores t_Fire_Detect	CNN	EfficientNet-B5 and DenseNet-201 models, is proposed to identify and classify wildfire

	Neural Network	transforme rs; UAV; aerial image	ion_Approach _Using_Conv olutional_Neu ral_Network		using aerial images. In addition, two vision transformers (TransUNet and TransFire) and a deep convolutional model (EfficientSeg) were employed to segment wildfire regions and determine the precise fire regions.
4	UAVs in Disaster Management: Application of Integrated Aerial Imagery and Convolutional Neural Network for Flood Detection Authors: afiz Suliman Munawar Fahim Ullah Siddra Qayyum Sara Imran Khan Mohammad Mojtahedi	Convolutio nal neural network (CNN); Disaster manageme nt; aerial imagery; flood detection; unmanned aerial vehicles (UAVs)	https://www.researchgate.net/publication/353015053 _UAVs_in_Disaster_Management_Application_of_Integrated_Aerial_Imagery_and_Convolutional_Neural_Network_for_Flood_Detection	CNN	For training phase, 2150 image patches are created by resizing and cropping source images. These patches in training dataset train CNN model to detect and extract the regions where a flood related change has occurred. This model is tested against both pre and post disaster images to validate it .0 highlights the occurrence of a disaster, whereas 1 represents no disaster

eruptions, hurricanes, tornados, and floods Author(s): .P.AMezquita-Sand ez*, 1.Valtierra-Rodriguez,H.Adeli	tornados, a floods Author(s): .P.AMezquit ez*, 1.Valtierra-R	prediction ment ss, nd a-San	https://www.magiran.com/paper/1779408/?lang=en		signal and image processing techniques, and statistical analyses used for prediction and assessment of natural disasters
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