

# NATURAL DISASTER INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELLIGENCE

## LITERATURE SURVEY

TITLE AND AUTHORS	YEAR	TECHNIQUE(S)	FINDINGS	PROS AND CONS
<b>Natural Disaster Monitoring With Wireless Sensor Networks</b>  Dan Chen, Zhixin Liu, Lizhe Wang, Minggang Dou.	2013	Wireless Sensor Network Technology	Disasters can be closely monitored by augmenting a variety of sensors Natural disaster monitoring with WSN is a well-known data intensive application for the high bandwidth requirements and stringent delay constraints	<b>PROS:</b> Low cost, scalability, flexibility.  <b>CONS:</b> As it is wireless in nature, it is prone to hacking by hackers
<b>Artificial Intelligence For Disaster Risk Reduction</b>  Monique Kuglitsch, ArifAlbayrak, Raúl Aquino, Allison Craddock.	2018	Machine Learning Algorithms	The methodological potential is strengthened by novel processor technologies that allow heavy-duty, parallel data processing.	<b>PROS:</b> It saves lives and money and future -proofs our development gains.  <b>CONS:</b> In a disaster, you face the danger of death or physical injury. You may also lose your home, possessions, and community.
<b>Natural Disaster Application on Big Data and Machine Learning</b>  Rania rizki Arinta, Andi Wahyu	2019	Machine Learning Big Data And Deep Learning	The propose of this study to give an insight and the use of big data, machine learning, and deep learning from 6 disaster area which is early warning damage, damage assessment.	<b>PROS:</b> Big data in the evacuation process to plan accordingly during the time of disaster .  <b>CONS:</b> Traditional storage can cost IoT money to store big data
<b>Natural disaster intensity analysis and classification based on multispectral images.</b>  Muhammad Aamir, Tariq, Irfan, Ahmad, Azam, FrantiseBrumerick, Witold	2021	Deep Learning	Classification Of Disaster images Using Convolutional Neural network	<b>PROS:</b> Data acquired from UAVs helps to identify the facial expressions of victims, the intensity of their situation and their needs in a post disaster scenario. <b>CONS:</b> Unpredictable, Cant suitable for all type of disaster.

