LITERATURE REVIEW

S.NO	Title	Author	Year	Inference
1	**Natural Disasters Intensity Analysis and Classification Based on Multispectral Images Using Multi-Layered Deep Convolutional Neural Network**	1.Muhammad Aamir 2.Tariq Ali 3.Muhammad Irfan 4.Ahmad Shaf 5.Muhammad 6.Zeeshan Azam 7.Adam Glowacz 8.Frantisek Brumercik 9.Witold Glowacz 10.Samar Alqhtani and 11.Saifur Rahman	**Published: 9 April 2021**	• In this paper we propose a multilayered deep convolutional 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. • The model is tested on 4428 natural images and performance is calculated and expressed as different statistical values: sensitivity (SE), 97.54%; specificity (SP), 98.22%; accuracy rate (AR), 99.92%; precision (PRE), 97.79%; and F1-score (F1), 97.97%. • The overall accuracy for the whole model is 99.92%, which is competitive and comparable with state-of-the-art algorithms.
2	**Artificial neural network approaches for disaster management**	1.Sreeparna Guha 2.RabinK.Jana 3.Manas K.Sanyal	**2022**	• In this paper we try to identify the reasons for the superior performance of ANN-based techniques over other techniques. • We also classify the extant literature according to applications in different phases and types of disasters. • The phases are 'Mitigation and Preparedness', and 'Response and Recovery'. The type of disasters includes flood, earthquake, storm, fire hazard/wildfire, and others. • We identify some important patterns from this review.
3	**Can we detect trends in natural disaster management with artificial intelligence**?	1. Ling Tan, 2. Ji Guo, 3. Selvarajah Mohanarajah 4. Kun Zhou	Published: 22 November 2020	• This paper presents a systematic review on how AI models are applied in different NDM stages based on 278 studies retrieved from Elsevier Science, Springer LINK and Web of Science

				• enables increased visibility into various disaster types in different NDM stages from the methodological and content perspective • btains many general results including the practicality and gaps of extant studies
4	**A comprehensive literature review of the demand forecasting methods of emergency resources from the perspective of artificial intelligence**	1.Xiaoxin Zhu, 2. Guanghai Zhang 3. Baiqing Sun	Published: 25 May 2019	• The intention for this paper is to be a useful reference point for those with research needs in forecasting methodologies and the applications of emergency resource • There is a need to explore more real-time forecasting approaches based on intelligent information processing techniques so as to achieve appropriate dynamic demand prediction that is adaptable to emergency and rescue situations
5	**Artificial Intelligence for Natural Hazards Risk Analysis: Potential, Challenges, and Research Needs**	**Seth Guikema**	First published: 19 May 2020	• This article takes a critical look at the use of AI for disaster risk analysis. • What is the potential? • How is the use of AI in this field different from its use in nondisaster fields? • What challenges need to be overcome for this potential to be realized? • And, what are the potential pitfalls of an AI-based approach for disaster risk analysis that we as a society must be cautious of?