

Disaster Risk Reduction & Resilience



Edited By:

Er. Pawan Kumar Mishra

Prof. Manju Mishra

Er. Ashish Kumar Singh

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Author © : **Er. Pawan Kumar Mishra**
Prof. Manju Mishra
Er. Ashish Kumar Singh

Publisher : Swaranjali Publication Sector 10-B,
Vasundhara, Ghaziabad, (U.P.) 201012

Phone : 9810749840, 8700124880

E-mail : swaranjalipublication@gmail.com

Website : www.swaranjalipublication.co.in

Book : **Disaster Risk Reduction & Resilience**

Edition : 2023

ISBN : 978-93-5470-897-8

Price : 1199/-

Printed By : Swaranjali Printers

Book Available : www.buybox.me

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Chapter-11

Artificial Intelligence Transforming Disaster Management Post-COVID-19 in Asian Continent

Tabish Izhar¹ Neha Mumtaz^{2*} & Syed Aqeel Ahmad³

^{1, 2, 3} Department of Civil Engineering

Integral University Lucknow, Uttar Pradesh, India

*Corresponding Author: nehamumtaz@iul.ac.in

Abstract:

The COVID-19 pandemic has brought to light the critical importance of effective disaster management on a global scale. This review article explores the lessons learned from the pandemic and their implications for disaster management strategies worldwide. It delves into the multifaceted nature of disaster management, examining how countries have adapted their approaches, fostered international collaboration, and integrated technology to enhance preparedness and response efforts. The review underscores the need for a holistic and collaborative approach to disaster management in the post-COVID era, highlighting the integration of public health, technology, policy, and community engagement to build resilient societies capable of addressing a spectrum of challenges. This pandemic has underscored the imperative of innovative approaches in disaster management. Artificial Intelligence (AI) has emerged as a transformative force, offering unparalleled capabilities in enhancing disaster preparedness, response, and recovery efforts on a global scale. This review article delves into the multifaceted role of AI in the context of disaster management, analyzing its applications, challenges, and potential impact in the post-COVID-19 era. By examining case studies and lessons learned, this article