Impact of Artificial Intelligence Techniques and Green AI Applications for Sustainable Development

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Green Artificial Intelligence is one of the ways to reduce the negative impact of AI on the environment. There are other ways also to support sustainability but in this chapter Green Artificial Intelligence will be particularly focussed. The chapter will help in understanding what Green AI is and how it can be beneficial in human development. This book chapter will highlight the civil engineering sustainable developments that can happen with the assistance of Green AI. Some research gaps will also be covered after going through the published papers on Green Artificial Intelligence over the years. The case of India will also be covered and how Green AI can play an important role in the country's future development will be talked about in this book chapter. Then, data from different sources will be collected to perform graphical analyses in order to understand the current trend and growth of Green Artificial Intelligence and its benefits, to support the study.

Biography:

Dr. Amit Srivastava is currently working as Professor in the Department of Civil Engineering at Graphic Era Deemed to be university, Dehradun. He did his UG from IIT Roorkee, and PG as well as Ph.D. IISc Bangalore. He has 20+ years of teaching, research, industry and administrative experience. He has 80+ publications in peer reviewed journals or conference proceedings out of which 58 documents are Scopus indexed and 41 are in Web of Science (WoS). He has visited countries like Italy, France, UK, and Egypt and received 3 national from Indian Geotechnical Society and 1 international award from ASCE.