



Technology, Law, and Management for Smart Societies

Artificial Intelligence, Digital Transformation, and
Governance Perspectives

Sunil Kumar Sahu
Editor

● DeepScience
,

Technology, Law, and Management for Smart Societies: Artificial Intelligence, Digital Transformation, and Governance Perspectives

Sunil Kumar Sahu

Faculty of Sciences, ISBM University, India



DeepScience

Published, marketed, and distributed by:

Deep Science Publishing
USA | UK | India | Turkey
Reg. No. MH-33-0523625
www.deepscienceresearch.com
editor@deepscienceresearch.com
WhatsApp: +91 7977171947

ISBN: 978-93-7185-368-2

E-ISBN: 978-93-7185-332-3

<https://doi.org/10.70593/978-93-7185-332-3>

Copyright © Sunil Kumar Sahu

Citation: Sahu, S. K. (Ed.). (2025). *Technology, Law, and Management for Smart Societies: Artificial Intelligence, Digital Transformation, and Governance Perspectives*. Deep Science Publishing. <https://doi.org/10.70593/978-93-7185-332-3>

This book is published online under a fully open access program and is licensed under the Creative Commons "Attribution-Non-commercial" (CC BY-NC) license. This open access license allows third parties to copy and redistribute the material in any medium or format, provided that proper attribution is given to the author(s) and the published source. The publishers, authors, and editors are not responsible for errors or omissions, or for any consequences arising from the application of the information presented in this book, and make no warranty, express or implied, regarding the content of this publication. Although the publisher, authors, and editors have made every effort to ensure that the content is not misleading or false, they do not represent or warrant that the information-particularly regarding verification by third parties-has been verified. The publisher is neutral with regard to jurisdictional claims in published maps and institutional affiliations. The authors and publishers have made every effort to contact all copyright holders of the material reproduced in this publication and apologize to anyone we may have been unable to reach. If any copyright material has not been acknowledged, please write to us so we can correct it in a future reprint.

Preface

This book discusses how new scientific research can advance technology in the field of emerging digital technologies that reshape innovation theory. We are moving towards an AI-driven, automated world which is partially being driven by the access to data and data-facilitated governance Intersectionality in these drivers of transformation becomes critical for ethical innovation, societal resilience and inclusive growth. In addition to contributions from the perspectives of technology, law and management, this edited volume presents an interdisciplinary dialogue on selected themes which include innovation, classic paradigms and new trends in the area(s) of investment services/markets/community banking convergence. It offers important ideas on AI governance, cybersecurity, data protection laws, smart city development, business adaptability and agility and sustainable leadership. As a whole, the chapters in this book provide evidence of what needs to be done: policies, ethics, and managerial innovation are tools that need to be used so that technology is developed for good and responsibly. Catered to scholars, stakeholders, policy makers, industry and academia in general, the book bridges theory with practice: it suggests potential avenues for the provision of technology-facilitated governance and management processes that foster transparency, accountability and social good. The book itself intends to anticipate the future, about humans' values and intelligent systems co-evolving to build a smart, fairer, just and sustainable society.

Sunil Kumar Sahu

Table of Contents

Chapter 1: Artificial Intelligence Governance in Developing Sustainable Smart Societies1
Arshad PT

Chapter 2: AI-Driven Risk Management Models for Smart Governance Systems14
Amitava Biswas

Chapter 3: Leveraging Artificial Intelligence for Sustainable Development in Smart Urban Ecosystems.....25
Supriyo Acharya^{1*}, Alakananda Das²

Chapter 4: Neuropsychological Effects of Long-term Substance Abuse: Rehabilitation Perspectives.....40
Supriyo Acharya^{1*}, Praiti Chakraborty², Shital Sahani³

Chapter 5: Digital Transformation and Inclusive Governance in Emerging Economies.....60
Madan Singh Panwar

Chapter 6: AI-Driven Predictive Models for Public Health Risk Forecasting71
Akanksha Sharma ^{1*}, Keshav ² and Shallu Meghta ³

Chapter 7: Digital Rights And Data Privacy In Today’s Library Ecosystem88
Khemanshu Kumar Sahu

Chapter 8: AI in Management: Challenges and Opportunities100
Parmanand

Chapter 9: Artificial Intelligence and Its Role in Enhancing the Effectiveness of Content Marketing in Economic Institutions: A Systematic Literature Review and Useful Recommendations.....122

Aboubaker Khoualed

Chapter 10: Sustainable Smart City Development: Integrating AI, IoT, and Policy for Urban Innovation.....138

Akshay Chavan¹, Shubham Jadhav², Atish Mote³