

Multidisciplinary Research in the Digital Era

Innovation, Emerging Technologies,
Sustainability, Entrepreneurship
and Social Transformation

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Multidisciplinary Research in the Digital Era: Innovation, Emerging Technologies, Sustainability, Entrepreneurship and Social Transformation



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Sustainability, Entrepreneurship and
Social Transformation**

Editor

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Multidisciplinary Research in the Digital Era: Innovation, Emerging Technologies, Sustainability, Entrepreneurship and Social Transformation

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Preface

The rapid pace of technological advancement has fundamentally transformed the way individuals, organizations, industries, and societies operate. The emergence of Artificial Intelligence, Generative AI, Machine Learning, Big Data Analytics, Internet of Things, Blockchain, Industry 4.0 and 5.0, FinTech, digital platforms, and other emerging technologies has created unprecedented opportunities while simultaneously introducing new challenges related to sustainability, ethics, governance, inclusion, privacy, employment, and social transformation. In this rapidly evolving environment, multidisciplinary research has become increasingly important for understanding the complex interactions between technology, business, society, and sustainable development.

The edited volume **“Multidisciplinary Research in the Digital Era: Innovation, Emerging Technologies, Sustainability, Entrepreneurship and Social Transformation”** has been conceived with the objective of bringing together contemporary research perspectives from diverse academic and professional domains. The volume provides a platform for researchers, academicians, practitioners, scholars, and industry professionals to present their research findings, conceptual perspectives, empirical evidence, case studies, and innovative ideas concerning the opportunities and challenges emerging in the digital era.

The chapters included in this volume explore a broad spectrum of themes encompassing digital transformation and emerging business models, Artificial Intelligence and Machine Learning applications, Big Data Analytics and Business Intelligence, Internet of Things, Industry 4.0 and Industry 5.0, Blockchain and Web3, cybersecurity and digital trust, digital entrepreneurship, FinTech and financial inclusion, digital marketing and consumer behaviour, sustainable development and ESG, circular economy, digital governance, smart cities, digital healthcare, the future of work, smart manufacturing and supply chains, social transformation, responsible AI, algorithmic governance, and emerging digital trends.

A distinctive feature of the volume is its multidisciplinary orientation. Digital transformation cannot be understood solely from a technological perspective; it also requires consideration of managerial, economic, social, ethical, environmental, and behavioural dimensions. The contributions in this volume therefore seek to bridge disciplinary boundaries and provide a holistic understanding of how emerging technologies are reshaping contemporary organizations and societies.

The volume also emphasizes the relationship between **innovation and sustainability**. While digital technologies can enhance productivity, efficiency, connectivity, and access to resources, their responsible adoption requires attention to environmental sustainability, digital inclusion, data privacy, ethical governance, and social well-being. Similarly, entrepreneurship and innovation have acquired new dimensions through digital platforms, technology-enabled business models, and evolving consumer ecosystems. The chapters provide valuable insights into these developments and highlight possibilities for creating more inclusive, resilient, responsible, and sustainable digital ecosystems.

We believe that this edited volume will serve as a useful reference for students, researchers, academicians, policymakers, entrepreneurs, managers, and professionals seeking to understand contemporary developments in technology, business, sustainability, and social transformation. It is our hope that the research and perspectives presented in this book will encourage further scholarly inquiry, interdisciplinary collaboration, and responsible innovation.

We sincerely appreciate the contribution of every author who shared their knowledge, research, and intellectual insights for this volume. Their diverse perspectives have enriched the scope and academic value of the book. We also hope that this collection of research will contribute meaningfully to ongoing academic and professional discussions on building a technologically advanced, sustainable, ethical, and socially inclusive future.

Editor

Dr. Pooja Gupta

Co-Editors

Dr. Sushil Kumar Sharma

Mr. Mohit Singhal

Ms. Shivani Shukla

Acknowledgement

The completion of an edited volume is a collective academic endeavour, and this book would not have been possible without the support, cooperation, and valuable contributions of numerous individuals.

First and foremost, we express our sincere gratitude to all the **authors and contributors** who responded to the call for chapters and shared their original research, conceptual perspectives, empirical findings, case studies, and scholarly insights. Their commitment, intellectual contribution, and timely cooperation have been instrumental in bringing this volume to fruition. We deeply appreciate their efforts in contributing to a multidisciplinary academic platform addressing contemporary issues in the digital era.

We extend our heartfelt appreciation to the **reviewers and academic experts** who devoted their valuable time to evaluating the submitted chapters and providing constructive suggestions. Their critical observations and recommendations have contributed significantly to improving the academic quality, clarity, and relevance of the chapters included in this volume.

We are grateful to **Empyrean Publishing House** for providing the platform and support necessary for bringing this edited volume to publication. We appreciate the cooperation and assistance extended by the publishing team throughout the editorial and publication process.

We also acknowledge the support and encouragement received from our respective institutions, colleagues, faculty members, research scholars, and students. Their academic discussions, encouragement, and cooperation have continuously motivated us in undertaking this scholarly initiative.

Our special thanks go to everyone who contributed directly or indirectly to the editorial process, including those involved in manuscript coordination, communication with contributors, formatting, proofreading, compilation, and publication-related activities. Every contribution, whether visible or behind the scenes, has played an important role in the successful completion of this volume.

We are particularly thankful to our colleagues and academic peers whose ideas and discussions helped shape the broader vision of this book. The multidisciplinary nature of the volume reflects the collaborative spirit of contemporary academic research and the importance of bringing diverse perspectives together.

Finally, we express our deepest gratitude to our **families, friends, colleagues, and well-wishers** for their constant encouragement, patience, and support throughout the preparation of this volume. Their understanding and motivation provided us with the strength to complete this academic endeavour.

We sincerely hope that this edited volume will prove valuable to the academic community and contribute to meaningful discussions on **innovation, emerging technologies, sustainability, entrepreneurship, digital transformation, and social development**. May the research presented in these pages inspire further inquiry, collaboration, responsible innovation, and impactful research in the years ahead.

With sincere gratitude,

Editor

Dr. Pooja Gupta

Co-Editors

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ABOUT THE BOOK

Multidisciplinary Research in the Digital Era: Innovation, Emerging Technologies, Sustainability, Entrepreneurship and Social Transformation explores the rapidly changing landscape of research, innovation, and society in an increasingly digital world. The book brings together diverse perspectives on how emerging technologies are transforming industries, institutions, communities, and everyday life.

It examines the role of digital technologies, Artificial Intelligence, data-driven solutions, innovation, and entrepreneurial thinking in addressing contemporary challenges and creating new opportunities. Particular attention is given to sustainability and the ways technological advancement can support responsible resource utilization, inclusive growth, environmental protection, and long-term development.

The book also highlights the importance of multidisciplinary research in understanding complex social and economic issues that cannot be addressed through a single academic discipline. It explores the interaction between technology, entrepreneurship, education, business, sustainability, and social transformation, providing readers with a broad and integrated perspective.

Designed for **researchers, academicians, students, entrepreneurs, professionals, and policymakers**, this book serves as a valuable resource for understanding emerging trends and interdisciplinary approaches in the digital era. It encourages collaboration across disciplines and emphasizes innovation, responsible technology adoption, and knowledge-driven solutions for building a more sustainable, inclusive, and digitally empowered future.



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