

**Beyond Data Monitoring – Achieving the
Sustainability Development Goals
Through Intelligence (Decision-Support)
Integrating Holistic Analytics, True Cost
Economics, and Open Source Everything**

BACKGROUND RESEARCH PAPER

Earth Intelligence Network

**Submitted to the High Level Panel on the Post-2015
Development Agenda**

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14 October 2014

Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support

**Elena G. Popkova, Bruno Sergi, Aleksei
V. Bogoviz**



Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support:

Intelligent and Sustainable Engineering Systems for Industry 4.0 and Beyond Tulsi Pawan Fowdur, Dragorad A. Milovanovic, Zoran S. Bojkovic, 2025-02-21 The Fourth Industrial Revolution Industry 4.0 aims to significantly improve the flexibility versatility usability and efficiency of future smart factories However the concept of Industry 4.0 is not only limited to the factory but also encompasses the entire life cycle of the product that is from production and suppliers to end users Industry 4.0 delivers seamless vertical and horizontal integration down the entire value chain and across all layers of the automation pyramid Industry 4.0 has its roots in a project for the high tech strategy of the German Government back in 2011 which led to the progression of cyber physical systems into cyber physical production systems CPPS CPPS can make intelligent decisions through real time communication and cooperation between manufacturing entities Smart Factory which is based on CPPS and artificial intelligence AI is one of the key associated initiatives of Industry 4.0 This enables flexible production of high quality personalized products with mass efficiency Another important aspect of Industry 4.0 is sustainable engineering systems that can help make its processes align with the United Nations Sustainable Development Goals UN SDGs Sustainable and intelligent engineering systems such as 5G Industrial IoT robotics and automation renewable energy logistics and even intelligent waste management can be the main enablers of Industry 4.0 This is a multidisciplinary book and is meant for anyone with a basic engineering background interested in acquiring a solid foundation in the fundamental concepts and state of the art research trends in Industry 4.0 It explores the application of AI and machine learning as well as sustainable engineering systems which can be the main drivers for Industry 4.0 and beyond and have a significant impact on the UN SDGs

Sustainability, Green Management, and Performance of SMEs Kiran Mehta, Renuka Sharma, 2023-12-04 In a world facing environmental challenges and socio economic inequalities SMEs can drive positive change by integrating sustainability principles into their business practices This book examines the relationship between sustainability green management and SME performance providing insights strategies and case studies to guide SMEs towards a more sustainable future and long term viability Drawing from extensive research the book analyzes the drivers barriers and motivations influencing SMEs adoption of sustainability practices It offers practical recommendations on overcoming resource constraints awareness gaps regulatory complexities and resistance to change It explores emerging trends such as digital technologies circular economy approaches clean energy transitions and social innovation and discusses collaboration among SMEs academia and government agencies as a crucial factor for innovation and scaling up sustainable practices Sustainability Green Management and Performance of SMEs is a comprehensive and practical guide for SMEs seeking to integrate sustainability into their business strategies It inspires and supports SMEs on their journey towards environmental stewardship social responsibility and long term profitability thus enabling them to unlock new business opportunities gain a competitive edge and secure their future in a changing global economy

Machine and Deep

Learning Solutions for Achieving the Sustainable Development Goals Ruiz-Vanoye, Jorge A.,Díaz-Parra, Ocotlán,2025-03-07 Achieving the United Nations Sustainable Development Goals SDGs requires innovative solutions that address global challenges such as climate change poverty and social inequality Artificial intelligence AI machine learning and data driven technologies offer transformative potential by optimizing resource management improving healthcare outcomes and enhancing decision making processes However integrating AI into sustainable development efforts presents ethical technical and policy related challenges that must be carefully navigated A multidisciplinary approach is essential to ensure these technologies are applied inclusively and responsibly maximizing their positive societal impact Machine and Deep Learning Solutions for Achieving the Sustainable Development Goals enhances understanding and application of machine learning deep learning data mining and AI technologies in the context of the SDGs It fills the gap by linking theory and practice and addresses both the opportunities and challenges inherent in this intersection Covering topics such as demand side management agricultural productivity and smart manufacturing this book is an excellent resource for engineers computer scientists practitioners policymakers professionals researchers scholars academicians and more *Sustainable and Environmental Development of Energy Economics based on Smart Grids and EnergyTech* Elena G. Popkova,Bruno Sergi,Aleksei V. Bogoviz,2023-04-25 **Proceedings of the Second Global Forum on Space Information for Sustainable Development** Ge Luo,2025-04-27 This proceedings book gathers the latest research presented at the Second Global Forum on Space Information for Sustainable Development GFSISD 2024 which hosted by China Association of Remote Sensing Application CARSA supported by Guangzhou Association For Science Goal 14 Life Below Water which emphasizes the sustainable use of marine resources and Goal 15 Life On Land which focuses on the sustainable use of terrestrial ecosystems Furthermore the publication covers the methodologies and applications of remote sensing sensors both optical and radar that contribute to sustainability efforts Contributors to these proceedings include distinguished scholars and industry leaders from across the globe This collection serves as a valuable resource for researchers students professionals and policymakers involved in space science information science earth and environmental sciences and sustainable development *Deploying Artificial Intelligence to Achieve the UN Sustainable Development Goals* Arthur Guseni Oliver Mutambara,2025-07-01 This book provides research insights into how Artificial Intelligence AI can be used to achieve the UN s Sustainable Development Goals SDGs 17 interconnected goals designed to address the world s most pressing challenges by 2030 It reviews the SDGs and discusses why progress has been mixed and uneven across different countries regions and goals The book posits that attaining the SDGs will depend on enhanced global cooperation increased funding improved infrastructure public private partnerships regional continental integration addressing the climate crisis inclusive economic transformation and visionary leadership More specifically the publication advocates leveraging innovative and transformative technologies particularly the deployment of AI The research acknowledges the risks of digital imperialism data colonialism

and technological exclusion especially in emerging and least industrialised economies Hence in deploying AI to achieve the SDGs the book puts a premium on decoloniality in AI systems and democratising AI technology Provides a critique of the current SDGs approach by reframing the goals as a comprehensive risk assessment of humanity s most pressing threats in the 21st century Features broad and holistic interventions to accelerate the attainment of the SDGs Provides a comprehensive but accessible introduction to AI concepts and advanced innovations such as AlphaFold ChatGPT 4 DeepSeek R1 Grok 3 and autonomous vehicles drones and driverless cars Discusses the AI strategies of leading economies and assesses the impact of AI on geopolitics Provides a comprehensive critique of global AI efforts by the UN and African Union while proffering alternative paradigms and frameworks Presents the enablers drivers and strategic framework of AI deployment to achieve the SDGs Develops and presents details of six distinct but related components of a novel Strategic Framework for developing and adopting AI Vision Strategy Policy Governance Legislation Regulations and Implementation Matrix Outlines specific ways that AI can be deployed to achieve each of the 17 SDGs and reviews seven countries experiences Explores an innovative forward looking and technology driven framework for equitable global socio economic transformation to succeed the SDGs post 2030

Smart Sustainability Madhusmita Mohanty,Rakesh Kumar,Rajeev Kumar Panda,Rashmi Ranjan Mallick,Kushal Walia,2025-09-05 This book emphasizes the contribution artificial intelligence AI can make to sustainable innovation and business intelligence It highlights the evolution of smart sustainability and business intelligence practice through AI AI significantly adds efficiency to sustainable business intelligence practices This book supports a sustainable development agenda The book is useful for policymakers corporate leaders researchers industry professionals and other stakeholders engaged in sustainable business practices This book examines the different applications of AI it can revolutionize green supply chain management inventory management and logistics management Emerging trends are examined along with problems and their fixes Practitioners companies legislators and researchers are provided with an implementation framework In addition ethical and environmental issues are covered with a focus on sustainable and responsible behavior To shed light on the efficacy of AI applications the book offers sustainable start up businesses real world examples of its use It also provides guidance on how to strategically incorporate AI into current frameworks for sustainable business practices For professionals in business technology and sustainability the book also helps with strategic planning Professionals in waste reduction and resource management might also benefit from their insights The book helps investors entrepreneurs and legislators make well informed decisions It increases public understanding of how augmented reality and virtual reality can support sustainable behaviors The book promotes knowledge progress and sustainable practices across multiple industries by providing interdisciplinary viewpoints and acting as a bridge between theory and practice

Ending the neglect to attain the Sustainable Development Goals ,2020-10-30 **Artificial Intelligence of Things for Achieving Sustainable Development Goals** Sanjay Misra,Kerstin Siakas,Georgios Lampropoulos,2024-03-11

This book covers various topics and trends regarding Artificial Intelligence AI Internet of Things IoT and their applications in society industry and environment for achieving Sustainable Development Goals SDGs suggested by the United Nations Additionally it discusses their advancements and fusion as well as the realization of Artificial Intelligence of Things AIoT The book aims to provide an overview and recent research into the fusion integration advancements and impact of these technologies in the context of SDGs achievement The topics include the applications of AI IoT big data AI based and IoT based cloud computing machine learning and deep learning techniques and blockchain among others for achieving SDGs It also presents findings and discussions on potential application domains addresses open issues and challenges offers solutions and provides suggestions for future research for achieving SDGs The chapters are clustered according to particular SDGs or areas of focus into i the realization of AIoT for SDGs ii the role of AIoT in achieving society and wellbeing related SDGs iii the fulfillment of industrial sectors infrastructure and economy related SDGs through AIoT and iv the use of AIoT to aid natural resources and environment related SDGs The book assists researchers practitioners professionals and academicians of various scientific fields in exploring and better understanding these state of the art technologies their advancements impact future potentials and benefits and their role in successfully achieving SDGs The book Offers an in depth overview of AIoT for achieving SDGs Presents the fusion of AI and IoT for bringing a significant change in everyday life and fulfilling SDGs Highlights innovative solutions and results of AIoT integration in several domains for achieving SDGs Showcases the influence of AIoT on promoting and improving sustainability in the context of SDGs Discusses the issues benefits solutions and impact of AIoT in society industry and environment for achieving SDGs

Integrating Environmental Sustainability and Corporate Social Responsibility: A Move Beyond Profit Pardeep Singh, Shikha Daga, Kiran Yadav, 2025-02-26 This book offers a comprehensive detail about the role that corporate social responsibility can play in promoting sustainable development thereby ensuring a resilient and greener future for all The book emphasises how business strategies and environmental harmony are becoming more integrated thereby supporting the agenda towards a sustainable development The synergistic and symbiotic relationship between social responsibility and sustainability has evolved over the years with enterprises becoming more aware of their commitment towards ethical equitable inclusive and environmentally conscious practices Adopting a socially responsible attitude by the new age entrepreneurs represents the paradigm shift in how corporations understand and undertake their regular activities The traditional objective of wealth maximisation that the enterprises followed led to severe misutilisation of resources in terms of its environmental and societal impact and led to severe corporate disasters It gave rise to adopting alternative objectives that are not only holistic but also combine concern for profits humanity society and above all the environment The result is that almost every major corporation has adopted a code of conduct and established the necessary management structures and procedures to ensure compliance with the newly framed objective of socially responsible profits Consequently the concept of corporate social responsibility has acquired

momentum in recent times This has come after the realisation that social responsibility is a significant environmental and organisational sustainability dimension that only some enterprises can sustain for a while Over the years this harmonisation has ushered in significant progress reshaping the perspective of businesses towards their societal and environmental impact

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Table of Contents Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support

1. Understanding the eBook Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - The Rise of Digital Reading Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Advantages of eBooks Over Traditional Books
2. Identifying Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - User-Friendly Interface
4. Exploring eBook Recommendations from Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support

- Personalized Recommendations
 - Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support User Reviews and Ratings
 - Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support and Bestseller Lists
5. Accessing Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support Free and Paid eBooks
- Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support Public Domain eBooks
 - Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support eBook Subscription Services
 - Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support Budget-Friendly Options
6. Navigating Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support eBook Formats
- ePub, PDF, MOBI, and More
 - Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support Compatibility with Devices
 - Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Highlighting and Note-Taking Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Interactive Elements Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
8. Staying Engaged with Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
- Joining Online Reading Communities

- Participating in Virtual Book Clubs
- Following Authors and Publishers Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
- 9. Balancing eBooks and Physical Books Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Setting Reading Goals Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Fact-Checking eBook Content of Beyond Data Monitoring Achieving The Sustainability Development Goals Through Intelligence Decision Support
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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