



MANUFACTURE  
FOR CIRCULAR  
ECONOMY



USE LESS TO  
MINIMISE WASTE



DESIGN FOR  
CIRCULAR  
ECONOMY



COLLECT AND  
SORT WASTE



LESS NATURAL  
RESOURCE USE



MAXIMISE  
RECYCLING

MINIMISE WASTE  
TO LANDFILL



# Circular Economy Latest

**Pardeep Singh, Anamika Yadav, Indranil  
Chowdhury, Ravindra Pratap Singh**

## **Circular Economy Latest:**

Circular Economy: Recent Trends in Global Perspective Sadhan Kumar Ghosh, Sannidhya Kumar Ghosh, 2021-11-23 This book presents the advantages of the circular economy as a powerful and inevitable model for tackling the current challenges against shrinking resources and establishing the resource efficient economy. The experienced contributors present the status and strategies of circular economy implementation in several countries with hands on experience to protect the environment while promoting the circular economy through legislative requirements, best practices adopted and popularizing the idea of circulation of resources amongst the researchers, academia, policy makers, industry and the general public at large. The book advocates a model that consists of designing products and processes with a view to endlessly recycling them, evolving a greater scope of sustainable development.

**Green Circular Economy** Pardeep Singh, Anamika Yadav, Indranil Chowdhury, Ravindra Pratap Singh, 2023-10-12 This book highlights the concepts, issues and policies related to the circular economy. The chapters of this book are designed to include the theoretical approach to the green circular economy, sustainable supply chain and challenges in the green circular economy. The book is a step towards designing sustainable circular economy embedded production and management practices. This book also addresses the capability of green lean productions and a circular economy to improve resource efficiency and address environmental sustainability issues. Environmental sustainability is a hot topic in politics, science and industry. There is a need to achieve economic, social and environmental sustainability goals through adaptations of the green circular economy which can help minimize greenhouse gas emissions, toxic pollutant releases, waste and energy and resource usage by employing renewable energy concepts and recyclable materials. The production processes must be resource efficient and environmentally friendly, including green lean manufacturing. Adopting a circular economy in manufacturing is less evident than green lean management. However, systematic strategies to bridge this gap have yet to be devised. There is an urgent need to fully explore the Circular Economy concept to attain resource and environmental goals for the sustainability of the environment in the present era of global climate change. Its framework's powerful strategies need to solve the problem created by linear economic growth through industrialization and gross economic growth. There is a need to improve the sustainability management capabilities in the manufacturing and industrial sector to support the circular economy and a need to examine the impact of green human resource management. This book proposes the combined approach of green lean solutions and a green circular economy. Through this book, we try to produce the content and information in a compiled form to give the audience an understanding of the circular economy concept, framework and challenges.

*Current Trends on Innovability and Sustainable Innovation* Anna Ujwary-Gil, Anna Florek-Paszowska, 2025-06-01 Introduction to the Innovability Index. More than the fusion of innovation and sustainability, the integration of innovation and sustainability conceptualized as innovability represents a strategic construct for addressing global challenges such as climate change, resource constraints and social inequality. The

conceptual understanding of innovability has advanced but its empirical measurement and operationalization remain underdeveloped. This conceptual paper introduces the Innovability Index designed to evaluate the extent to which countries, regions, or organizations embed sustainability principles. The index encompasses four dimensions: technological innovation for sustainability, environmental sustainability, social inclusiveness, and sustainable business practices. Each dimension is assessed through a set of indicators, normalized, weighted, and aggregated to generate a composite performance score. The Innovability Index provides a structured approach for benchmarking sustainable innovation capabilities. It is a practical tool for policymakers, firms, and researchers to align innovation ecosystems with sustainability imperatives and the Sustainable Development Goals (SDGs). This conceptual paper opens the thematic issue of innovability and sustainable innovation, as well as addresses a gap in the literature by introducing the initial attempt to measure innovability.

**Keywords:** Innovability, Innovability Index, sustainable development, ESG, sustainability, sustainable innovation, technological innovation, environmental sustainability, social inclusiveness, sustainable business practices, Leadership competencies for innovability, Bridging theory and practice for sustainable development.

**PURPOSE:** This study explores the critical leadership competencies necessary for fostering innovability, the integration of innovation and sustainability within organizations, particularly in education institutions, HEIs, and the business sector. The research seeks to address the gap in understanding how these competencies are developed in HEIs and whether they effectively prepare graduates with the skills needed for the current business context. Additionally, the study emphasizes the need to identify robust instruments for measuring these competencies to ensure their practical application in organizational settings.

**METHODOLOGY:** A systematic literature review (SLR) was conducted using Scopus and Web of Science databases. The study employed a rigorous selection process to identify relevant empirical studies published between 2015 and 2024. A total of 53 articles were analyzed to address three key research questions related to the characteristics of innovability, leadership recommendations for developing innovability in organizations, and the methodologies or instruments used to identify these competencies. The analysis involved thematic synthesis and content analysis to extract insights and identify gaps in the existing literature.

**FINDINGS:** The study identifies five key categories of leadership competencies essential for innovability, including strategic leadership, fostering a culture of collaboration, commitment to sustainability, continuous education, and sensitivity to global megatrends. Despite the recognition of these competencies, the study reveals a significant lack of empirical research on their practical implementation and measurement. The findings also highlight the need for robust tools to assess these competencies effectively. Additionally, the study provides several recommendations for developing innovability for their integration into the business sector, emphasizing the importance of leadership development programs, the integration of sustainability into corporate strategy, and the promotion of a collaborative organizational culture.

**IMPLICATIONS:** Theoretically, the study contributes to the conceptual framework of innovability leadership by identifying critical competencies and suggesting a more integrated approach to leadership.

development in business education Practically the research underscores the importance of developing targeted training programs and assessment tools to cultivate these competencies in future leaders This is particularly relevant for business schools which play a crucial role in preparing students to address complex global challenges ORIGINALITY AND VALUE This study fills a gap in the literature by providing a detailed examination of the competencies required for innovability leadership and proposing directions for future research and practice It offers a unique contribution by bridging the theoretical and practical aspects of innovability in leadership particularly within the context of higher education Keywords innovability leadership competencies sustainability business education systematic literature review Sustainable Development Goals SDGs leadership development educational innovation higher education Integrating science technology and experimental knowledge for sustainable innovation A Living Lab approach to urban biodiversity management PURPOSE This study aims to enhance understanding of STI Science Technology Innovation and DUI Doing Using Interacting integration dynamics in sustainable innovation specifically investigating its role in innovation outcomes stakeholder engagement and the institutionalization of sustainable practices in urban lawn management METHODOLOGY Using a single case study design the study captures real time dynamic interactions between STI and DUI practices observing ongoing processes Data were collected through five focus group interviews with 32 stakeholders individual interviews project documentation and a project diary Stakeholders included public sector officials NGOs private garden owners and business representatives each offering insights into policy environmental practices and market driven solutions The Living Lab methodology emphasizing co creation and iterative feedback guided both data collection and analysis with NVivo software and manual coding used to identify key themes and challenges in integrating STI and DUI for sustainable innovation FINDINGS The investigation revealed that integrating STI and DUI modes fosters a dynamic synergy STI provided scientific rigor while DUI leveraged stakeholder input and local contexts to co develop adaptive urban biodiversity solutions This approach addressed location specific challenges balancing ecological goals with practical feasibility For instance stakeholder engagement refined scientific recommendations ensuring broader applicability and adoption Despite tensions between rigor and practicality the participatory Living Lab methodology facilitated co creation aligning scientific insights with real world needs to enhance sustainable lawn care practices IMPLICATIONS The study contributes to innovation theory by showing how integrating STI and DUI modes fosters socially responsive adaptable solutions for urban biodiversity management From a practical standpoint it underscores the importance of stakeholder engagement in developing tools and strategies that balance scientific insights with practical real world application The project offers a replicable model for integrating formal research with user driven innovation in sustainability projects ORIGINALITY AND VALUE This paper provides a unique contribution by showcasing how the integration of formal scientific research STI with practical user centered approaches DUI can foster innovability The use of the Living Lab methodology to co create urban biodiversity solutions bridges the gap between academic research and practical application

offering a novel framework for addressing complex environmental challenges through collaborative innovation

**Keywords** sustainable innovation Science Technology Innovation STI Doing Using Interacting DUI urban biodiversity lawn management Living Lab stakeholder engagement participatory innovation co creation climate change adaptation The role of green blue ocean strategy in enhancing frugal innovation through IoT and AI A resource based view perspective

**PURPOSE** This study explores the role of Green Blue Ocean Strategy GBOS in promoting frugal innovation by leveraging IoT and AI from an RBV theoretical perspective targeting creative entrepreneurs in Central Java Indonesia

**METHODOLOGY** A quantitative approach was used with Structural Equation Modelling SEM analyzed via AMOS Data from 262 creative entrepreneurs were collected through an online closed questionnaire using purposive sampling

**FINDINGS** The study reveals that 1 IoT does not significantly impact frugal innovation 2 AI positively influences frugal innovation and 3 GBOS effectively mediates the relationship between IoT AI and frugal innovation suggesting that integrating sustainable strategies with technology can lead to more cost effective and inclusive innovations

**IMPLICATIONS** for theory and practice The study extends the RBV framework by integrating the GBOS concept demonstrating its effectiveness in optimizing digital technology for sustainability driven innovation It contributes to the literature on sustainability strategies and the Resource Based View by introducing a novel theoretical model that links GBOS IoT and AI with frugal innovation Practically GBOS offers a pathway for creative entrepreneurs to overcome resource constraints and achieve competitive advantages through sustainable practices

**ORIGINALITY AND VALUE** This study introduces Green Blue Ocean Strategy GBOS as a novel conceptual framework that extends the traditional Blue Ocean Strategy BOS by integrating sustainability principles GBOS addresses both economic and environmental concerns enabling businesses to achieve cost effective innovation Grounded in the Resource Based View RBV this study systematically develops and empirically tests GBOS by linking it with IoT AI and frugal innovation The framework offers a new lens for sustainable competitive advantage in resource constrained environments

**Keywords** internet of things artificial intelligence green blue ocean strategy frugal innovation resource based view sustainability sustainable strategy digital technology sustainability driven innovation sustainable innovation The impact of eco innovation on circular economy in EU countries How patents affect circular material use rate

**PURPOSE** The main objective of this study is to examine how eco innovation activities measured by the number of patents related to recycling and secondary raw materials affect the level of use of circular materials in economic processes in European Union countries Simultaneously to take into account the impact of the other drivers of the circular economy the study includes control variables such as GDP per capita share of income from environmental taxes age structure of the population and level of education of the population

**METHODOLOGY** This study uses a generalized linear model for panel data For all analyzed explanatory variables greater inter group variation than intra group variation was observed so a panel averaged effects estimator was used The study sample includes 28 European Union EU countries The time scope of this study is 2010 2019

Eurostat database was the source of the unbalanced panel data. This study seeks answers to the following research question: What is the impact of patents related to waste management and recycling on the circularity rate of the EU economies?

**FINDINGS** The results indicate that leaders in the area of circularity are the Netherlands, France, and Belgium. Ireland, Romania, and Portugal occupy last place in terms of the circularity of the economy. There is considerable variation in the number of patent applications related to waste management and recycling in the EU countries. Luxembourg, Finland, Belgium, and the Netherlands have the highest propensity for patents. In contrast, Bulgaria, Greece, and Croatia show the lowest patent activity. Finally, the higher the propensity to patent in waste management and recycling technologies, the higher the rate of circular use of materials.

**IMPLICATIONS** The results provide a compelling rationale for prioritizing and incentivizing investments in promising technologies to achieve both environmental sustainability and economic prosperity in the long term.

**ORIGINALITY AND VALUE** Our study sheds new light on the link between eco innovation and circular economy in EU countries. We address the issue of possible nonlinearities between circularity and its drivers. Given the fractional nature of the response variable, i.e. circular material use rate, we apply the generalized estimating equations (GEE) approach to model both the mean structure and association structure of fractional responses.

**Keywords:** circular economy, CE, circularity, eco innovation, patent, circular material use, CE driver, EU countries, generalized estimating equations, recycling technologies, waste management, Unitary Patent System, and innovation dynamics in the European Union, The role of economic resources and R D investments.

**PURPOSE** The EU supports competitiveness and sustainability via innovations by the patent protection of inventions. On 1st June 2023, the EU launched the Unitary Patent System (UPS) with the Unitary Patent as a universal innovation protection tool. The data regarding its first 20 months of operations offers indices about innovation and patenting trends.

**METHODOLOGY** The contextual exploration of the UPS was projected into four aims: addressing the absolute and relative numbers of Unitary Patents (A1) and the relationship between Unitary Patents and GDP per capita (A2) and GERD (A3) and comparatively juxtaposing them (A4). This deeper contextual understanding of Unitary Patenting dynamic entails EU member states and their top four competitors: China, Japan, South Korea, USA. The data regarding the GDP, GDP per capita, GERD, number of Unitary Patents in total and per millions of inhabitants was collected and visualized via tables and charts and submitted to a critical comparison.

**FINDINGS** The first 20 months of the UPS operations suggests that the Unitary Patent is a viable but not the most popular patenting option and that there is a positive impact on the GDP per capita and GERD for the majority of the EU member states and that there are differences between EU member states in their efficiency to generate Unitary Patents.

**IMPLICATIONS** The performed study confirms the parallel co-existence of various patenting strategies and the importance of investments in patented inventions. However, the size of GDP per capita followed by GERD is a mere pre-requisite that leads to diversified efficiency even among similar jurisdictions with at least an average GDP per capita and GERD. Arguably, the UPS magnifies the differences and the six original European integration jurisdictions are not

the best UPS players There are indices about positive trends for Northern EU member states and negative trends for Southern EU member states ORIGINALITY AND VALUE This is a pioneering contribution regarding a newly launched system showing that despite the same regime EU member states differ dramatically in their approach to patenting and that the level of GDP per capita and GERD are just the starting points Keywords Unitary Patent System EU member states GDP gross domestic expenditure on research and development GERD GERD per GDP GERD Index innovation sustainability economic resources patent protection The Digital Sustainability Ecosystem A conceptual framework for digital transformation and sustainable innovation PURPOSE This study introduces the Digital Sustainability Ecosystem a conceptual framework to integrate digital transformation and sustainable innovation It examines how emerging digital technologies including artificial intelligence blockchain and the Internet of Things drive sustainability transitions by serving as strategic enablers Addressing a critical gap in the literature this research focuses on the dynamic mechanisms and synergies that connect digital transformation with sustainable innovation within a complex ecosystem METHODOLOGY The study employs a systematic literature review SLR of 50 studies and a comparative analysis of 13 existing frameworks to identify and analyze key mechanisms that link digital transformation and sustainable innovation culminating in the development of the Digital Sustainability Ecosystem framework FINDINGS The study identifies five interconnected mechanisms efficiency gains dematerialization circular economy enablement innovation acceleration and digital collaboration These mechanisms illustrate the relationships between technological advancements and sustainability objectives while addressing synergies and tensions such as the trade offs between energy demands and environmental benefits The Digital Sustainability Ecosystem emphasizes multi stakeholder collaboration iterative feedback loops and adaptable processes to address gaps in existing models positioning digital transformation as a transformative force for systemic sustainability improvements IMPLICATIONS The Digital Sustainability Ecosystem advances theoretical discourse by positioning sustainability as a systemic outcome of digital transformation extending beyond traditional efficiency focused models It emphasizes organizational resilience and stakeholder collaboration as pivotal for achieving sustainability objectives Practitioners can leverage AI IoT and blockchain to enhance resource optimization and foster sustainability driven innovation ecosystems Policymakers and organizations are encouraged to combine digital strategies with sustainability imperatives emphasizing adaptive leadership regulatory alignment and multi stakeholder engagement ORIGINALITY AND VALUE This study presents a conceptual framework that bridges theoretical and practical gaps in the literature by integrating foundational theories that associate digital transformation with sustainability imperatives while fostering innovation and competitive advantage The framework sets the stage for future research emphasizing potential applications in industry specific contexts cross sectoral collaborations and the evolving role of emerging technologies in sustainability transitions By incorporating dynamic feedback loops and systemic adaptability this framework establishes a foundation for advancing both academic inquiry and practical implementation It

offers guidance for exploring unanswered questions about scalability policy integration and multi stakeholder engagement in the digital age Keywords digital transformation sustainable innovation digital sustainability ecosystem sustainability transitions artificial intelligence blockchain Internet of Things circular economy efficiency gains dematerialization acceleration digital collaboration stakeholders

**New Trends in Engineering Research 2024** Nenad Mitrovic, Goran Mladenovic, Aleksandra Mitrovic, 2025-01-07 This book is a collection of high quality peer reviewed research papers presented at the International Conference of Experimental and Numerical Investigations and New Technologies CNNTech2024 held in Belgrade Serbia from 24 June to 27 June 2024 The book discusses various industrial engineering and scientific applications of engineering techniques Researchers from academia and industry present their original work and exchange ideas experiences information techniques applications and innovations in mechanical engineering materials science chemical and process engineering experimental techniques numerical methods and new technologies

Circular Economy Tao Zhang, 2021-02-10 Nowadays the restriction of resources and the environment is very severe A circular economy is the only way to sustainable development but how this works still needs more exploration The series of studies carried out by the author are described in detail in this book

*Green Innovation, Sustainable Development, and Circular Economy* Nitin Kumar Singh, Siddhartha Pandey, Himanshu Sharma, Sunkulp Goel, 2020-10-14 Although green innovation and technology is not new so far very limited information is available regarding the diversified approaches for green technologies and engineering This book highlights the challenges and opportunities offering a roadmap for using various approaches in the most cost effective way The book discusses the interrelationship between a circular economy and green technologies It presents the dimensions of green innovations and illustrates the challenges of industrialization especially in terms of material synthesis and utilized processes It covers the current environmental and health challenges of societies and describes the role of stakeholders in developing sustainable societies and industries This book provides a line of approach to core and interdisciplinary students academicians research scientists and various industry personnel to present their ideas of green innovations with a common vision of sustainable development of community and industries in mind Features Discusses the interrelationship between a circular economy and green technologies Presents the dimensions of green innovations Illustrates the challenges of industrialization especially in terms of material synthesis and utilized processes Covers the current environmental and health challenges of societies Offers the identification and role of stakeholders in the sustainable development of societies and industries

**Sustainable Finance and the Global Health Crisis** Pasquale Marcello Falcone, Edgardo Sica, 2023-08-01 The speed with which the various economies recover from the Covid 19 pandemic will significantly determine the economic pressure placed on the environment in the medium to long term Furthermore the pandemic has highlighted the strong interrelations between natural and societal systems with societal resilience depending on a resilient environmental support system In this context the book argues that the pandemic represents a wake up call for

financial systems to be better prepared for the climate crisis and social risk and has provided a stimulus to scale down the reliance of the global economy on fossil fuels The first part of the book provides a deep and creative discussion between leading international researchers and experts on the policy options and financial instruments which can help to catalyze the green finance transition in the post Covid 19 era The contributions show that sustainable finance is emerging as a powerful tool to advance the transition towards a more environmentally and socially sustainable economic model Instruments such as sovereign green bonds green securities and other sustainability related securities can play a significant role in the post Covid 19 world to fund economic stimulus and to lead the way to new and more sustainable future The second part of the book supports the debate by highlighting a number of selected case studies on financing transitions in different regional contexts including Africa Asia Europe and Latin America The book marks a significant contribution to the literature on environmental economics and finance climate change and sustainability transitions Chapter 12 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

**Sustainable Energy-Water-Environment Nexus in Deserts** Essam Heggy, Veronica Bermudez, Marc Vermeersch, 2022-04-25 This book addresses challenges and opportunities in the Energy Water Environment EWE nexus with a particular focus on research and technology development requirements in harsh desert climates Its chapters include selected contributions presented during the 1st international conference on sustainable Energy Water Environment nexus in desert climates ICSEWEN 19 held at the Qatar Environment and Energy Research Institute QEERI in Doha Qatar in December 2019 This volume is comprised of three main chapters each describing important case studies and progress on water energy and environmental questions A fourth chapter on policies and community outreach on these three areas is also included This compilation aims to bridge the gap between research and industry to address the socioeconomic impacts of the nexus imbalance as perceived by scientists industrial partners and policymakers The content of this book is of particular importance to graduate students researchers and decision makers interested in understanding water energy and environmental challenges in arid areas Researchers in environmental and civil engineering chemistry hydrology and environmental science can also find unique in situ observations of the current nexus imbalance in deserts climate to validate their investigations It is also an invaluable guide for industry professionals working in water energy environment and food sectors to understand the rapidly evolving landscape of the EWE nexus in arid areas The analyses observations and lessons learned summarized herein are applicable to other arid areas outside North Africa and the Arabian Peninsula as well such as central Australia the southwest of the United States and deserts in central Asia

**A New Dynamic 2** Amory B. Lovins, 2016 Technical News Bulletin, 1930 **Vietnam Economic News**, 2021-07 The Degrowth Economy. Strategic Path for Clothing Brands' Future and Empowerment Model for Fashion Consumers?, 2021-08-23 Master's Thesis from the year 2021 in the subject Business economics Offline Marketing and Online Marketing

grade 1 AMD Akademie Mode Design GmbH Fresenius University language English abstract This thesis aims to develop degrowth oriented business models for fashion brands that could not only bring competitive advantage to these organizations but also drive the achievement of the Sustainable Development Goals defined by the United Nations in 2015 The outcome of this thesis provides a range of design options and strategies that can be implemented by fashion brands in the degrowth framework combined within a custom buildable business model matrix An empirical research conducted with both qualitative and quantitative data assessed the developed business model matrix based on nine existing fashion organizations The results showed the existence of three observable business model archetypes presenting strong similarities with the proposed model however always limited to a very reductive approach of the degrowth economy The degrowth economy has long been undervalued by businesses considering prosperity without growth as an impossible match With the rising pressures imposed by climate change the new transformative challenges the fashion industry is facing and current shifts in consumers purchasing behaviors the degrowth economy debate appears as a relevant opportunity to initiate systemic change within the fashion industry This research highlights the need and relevance for the development of fashion business models using a more holistic approach of the degrowth economy now given possible thanks to the translation of degrowth concepts and ideas into implementable business strategies It suggests that fashion brands could get strong competitive advantages by following these recommendations and by acting as pioneers in a field that goes beyond the current understanding of sustainability in the fashion industry

**Moore's Rural New-Yorker** ,1896 **New Trends in Mechatronics and Materials Engineering** Elwin Mao,Xi Bing Li,2012-01-24 Selected peer reviewed papers from the 2011 International Conference on Mechatronics and Materials Engineering ICMME 2011 December 10 12 Qiqihar China Rural New Yorker ,1896 **Implementation of Circular Economy in Supply Chains and Production Systems** Roma Marczewska-Kuzma,Lukasz Hadas,Paulina Golinska,2025-08-11 This book covers various aspects of sustainability including green economy green energy and waste management It offers analysis of key challenges in contemporary world as well as concepts and solutions that can be implemented to deal with them The authors represent various universities located all over the Europe hence their perspectives are different and confronting their points of view will result in holistic review of current topics connected with circular economy The book can be interesting for academics as it presents the latest research results for business practitioners as it supplements research with case studies and real life examples and for students who can learn about new challenges solutions they will have to deal with in their professional careers **Scientific American** ,1872 Monthly magazine devoted to topics of general scientific interest **The Inland Printer** ,1919 **Circular Economy** Günther Dobrauz-Saldapenna,Nicolas Huras,2023-11-02 Every leaf that falls from a tree becomes part of a new circle In non human ecosystems everything is re used or re purposed The natural world is the perfect circular system Why is the same not true for humankind Most of the things we possess will ultimately not be used for a long period of time The current take make

waste approach is a given fact of our present economy that we have perfected since the industrial revolution The editors Dr Guenther Dobrauz Saldapenna and Nicolas Huras believe that we urgently need to change our ways of producing consuming and living It is time to seriously consider circular economy as an alternative model This book brings together thinkers and innovators from academia as well as business who share their ideas Does it deliver answers to all our challenges Probably not but it is a great place to start The future must be circular and decentralized This book was printed according to the Cradle to Cradle principle The dust jacket contains flower seeds and can be planted in the ground watch the flowers grow

**Intelligence-Driven Circular Economy** Azzam Hannon,Abdullah Mahmood,2025-01-20 This book provides a platform for scholars and researchers to present the latest insights and findings on the role of artificial intelligence and smart digital solutions in fostering the circular economy Additionally the book shades the lights on the vital role of circular economy in achieving sustainability and social responsibility It covers a variety of research topics including circular economy sustainability AI applications legislation and regulation smart cities social entrepreneurship and AI digital transformation knowledge management and cybersecurity This edited book serves as a reference and guide to graduate students researchers and academics conducting research and taking courses in artificial intelligence sustainability and the circular economy

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