



Circular Economy Trending

Yan Bai



Circular Economy Trending:

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.

Current Trends on Innovability and Sustainable Innovation Anna Ujwary-Gil, Anna Florek-Paszkowska, 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. NVivo software and manual coding were 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 requirement 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

Industry 4.0 and Circular Economy

Antonis Mavropoulos, Anders Waage Nilsen, 2020-08-17 How the marriage of Industry 4.0 and the Circular Economy can radically transform waste management and our world Do we really have to make a choice between a wasteless and nonproductive world or a wasteful and ultimately self destructive one Futurist and world renowned waste management scientist Antonis Mavropoulos and sustainable business developer and digital strategist Anders Nilsen respond with a ringing and optimistic No They explore the Earth changing potential of a happy and wasteless marriage between Industry 4.0 and a Circular Economy that could with properly reshaped waste management practices deliver transformative environmental health and societal benefits This book is about the possibility of a brand new world and the challenges to achieve it The fourth industrial revolution has given us innovations including robotics artificial intelligence 3D printing and biotech By using these technologies to advance the Circular Economy where industry produces more durable materials and runs on its own byproducts the waste management industry will become a central element of a more sustainable world and can ensure its own but well beyond business as usual future Mavropoulos and Nilsen look at how this can be achieved a wasteless world will require more waste management and examine obstacles and opportunities such as demographics urbanization global warming and the environmental strain caused by the rise of the global middle class Explore the new prevention reduction and elimination methods transforming waste management Comprehend and capitalize on the business implications for the sector Understand the theory via practical

examples and case studies Appreciate the social benefits of the new approach Waste management has always been vital for the protection of health and the environment Now it can become a crucial role model in showing how Industry 4.0 and the Circular Economy can converge to ensure flourishing sustainable and much brighter future *Knowledge Architectures* Denise Bedford, 2020-12-31 *Knowledge Architectures* reviews traditional approaches to managing information and explains why they need to adapt to support 21st century information management and discovery Exploring the rapidly changing environment in which information is being managed and accessed the book considers how to use knowledge architectures the basic structures and designs that underlie all of the parts of an effective information system to best advantage Drawing on 40 years of work with a variety of organizations Bedford explains that failure to understand the structure behind any given system can be the difference between an effective solution and a significant and costly failure Demonstrating that the information user environment has shifted significantly in the past 20 years the book explains that end users now expect designs and behaviors that are much closer to the way they think work and act Acknowledging how important it is that those responsible for developing an information or knowledge management system understand knowledge structures the book goes beyond a traditional library science perspective and uses case studies to help translate the abstract and theoretical to the practical and concrete Explaining the structures in a simple and intuitive way and providing examples that clearly illustrate the challenges faced by a range of different organizations *Knowledge Architectures* is essential reading for those studying and working in library and information science data science systems development database design and search system architecture and engineering

Global Challenges for a Sustainable Society José Alberto Benítez-Andrades, Paula García-Llamas, Ángela Taboada, Laura Estévez-Mauriz, Roberto Baelo, 2023-06-11 EURECA PRO is the global educational core hub and interdisciplinary research and innovation leader in qualitative environmental and social framework development for responsible consumption and production Through its novel approach on the one hand it holistically contributes to the highly topical issue of Sustainable Consumption and Production under the umbrella of Sustainable Development Goal 12 and on the other hand it effectively contributes to the development of the European Higher Education Area complimentary to Sustainable Development Goal 4 In this book readers will find the discussion results among professionals academics and scientists on responsible consumption and production regarding the latest advances to achieve a sustainable society This book contents 5 chapters focused on Smart and healthy societies Recycling reused and longer lasting products fresh air clean water healthy soil and biodiversity cleaner energy and cutting edge clean technological innovation and industry 4.0 This book also intends to show the current and future challenges and innovative solutions considering the technological humanistic educational economic social and environmental dimensions of sustainability *Advances in Thermoplastic Elastomers* Nikhil K. Singha, Sadhan C. Jana, 2024-01-24 *Advances in Thermoplastic Elastomers* Challenges and Opportunities brings together the state of the art in thermoplastic elastomers TPEs covering innovative materials synthesis techniques processing methods

and sustainability Sections outline thermoplastic elastomers rubber elastic and thermoplastic vulcanizates and review the current landscape from research and published literature to commercialization and patents Subsequent chapters offer methodical coverage of different categories of advanced thermoplastic elastomer materials including areas such as polyolefin based TPEs and high performance TPEs The final chapters in the book examine options for sustainability including bio based bio resourced and biodegradable TPEs as well as circular economy and recycling of TPEs Finally outlook and future market and research trends are reviewed This is a valuable book for researchers and advanced students working with elastomers polymer science materials chemistry and materials engineering In an industrial setting this is an essential resource for R D professionals scientists and engineers looking to utilize thermoplastic elastomers in a range of advanced applications

Focuses on novel materials such as polyolefin based TPEs fluorinated TPEs silicone based TPEs and ionic TPEs Discusses sustainability in terms of bio based or biocompatible TPEs recycling and the circular economy Helps bridge the gap between research and commercialization reviewing patents literature trends and market

EMERGING TECHNOLOGIES IN GLOBAL BUSINESS ENVIRONMENT Dr. Saroj Kumar ,Dileep Singh,2025-06-19 MBA FOURTH SEMESTER According to the New Syllabus of Dr A P J Abdul Kalam Technical University Lucknow

Bioeconomy for Sustainability Vinod Kumar Garg,Navish Kataria,2024-05-31 This edited volume covers the key role of bioeconomy for next generation industrial production to achieve Sustainable Development Goals It addresses the key environmental challenges due to biowaste generation and their application in boosting the economy through the conversion of biowaste into valuable products for sustainable growth and future needs This book also describes the potential future research scope and possibilities in bioeconomy towards sustainable industrial ecology and circular economy In recent years competition has increased for determinate resources There is an urgent need to look for sustainable non polluting alternate sources to meet the demands of an ever increasing population Sustainable processes and production while using biological material can produce food fodder agricultural inputs fuel etc with lesser inputs and reduced emission of pollutants Agricultural waste and food waste are another concern which demands immediate interventions The Bioeconomy can be a possible way to address these challenges It includes sustainable production of food fodder fiber fuel agricultural inputs and other goods while using renewable resources or different types of waste This is beneficial to resolve diverse environmental problems such as future bioenergy production technology societal transformations pollution management industrial circular economy agricultural practices and food securities climate management etc Bioeconomy helps to move from a linear economy to a circular economy This book is a valuable source for researchers teachers and undergraduate and graduate students of environmental science environmental economics agriculture science biotechnology ecology and soil science It also serves as additional reading material for professionals scientists stakeholders of government and non government organizations industrialists and policymakers of the relevant fields

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 **Recent Trends of Law & Regulation in Korea** ,2016

Global Strategic Management Philippe Lasserre,Felipe Monteiro,2022-11-03 Seamlessly blending academic rigour and practicality this textbook provides an introduction to global business strategy Assuming a born global perspective Global Strategic Management is supported by ample pedagogical features including numerous case studies and examples featuring both established multinationals and unknown SMEs from across the globe The book takes an applied approach to global business strategy emphasising functional parts of international business managing marketing operations HR and finance The text has been widely updated to incorporate the impacts of the Covid 19 pandemic such as work from anywhere and deglobalization New to this fifth edition is increased material on sustainability and corporate social responsibility including discussion of climate change NGOs and sustainable development goals Subjects such as the impact of technology cryptocurrency and global strategy in the digital space are discussed in more detail while the conflict in Ukraine is also considered

The 7th International Conference on Advances in Engineering and Management (ADEM) Gabriel Benga,Adrian Bebe Olei,Marius Criveanu,2025-05-13 Selected peer reviewed full text papers from the 7th International Conference on Advances in Engineering and Management ADEM 2023 Selected peer reviewed full text papers from the 7th Conference Advances in Engineering and Management ADEM 2023 25 27 October 2023 Drobeta Turnu Severin Romania

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