

Real-World Biology: Analysis

CHAPTER 13 DNA Fingerprinting

“Genetic Prints Help Solve Mystery of Girls Switched at Birth.” “Murder Conviction Overturned by DNA Testing: Prisoner Released.” Headlines such as these have become commonplace in recent years due to the forensic method of DNA fingerprinting, originally developed in Britain in the early 1980s. DNA fingerprinting is a method for visualizing sequences of DNA. Every person (except identical twins) has a unique sequence of base pairs. In DNA fingerprinting, scientists analyze a small number of DNA sequences that are known to vary a great deal among individuals. DNA fingerprinting has become an important tool in investigating criminal cases, identifying bodily remains, tracing heritage, and studying genetic disorders. In this activity, you will investigate the technique of DNA fingerprinting and learn how this science of identity is used to solve problems of family heritage and criminal justice.

Part A: How to Make a DNA Fingerprint

Step 1: DNA is extracted from cells and cut into fragments by restriction enzymes.

Step 2: The DNA fragments are placed on an electrophoresis gel, and electric current is applied. DNA, being negatively charged, moves through the gel to the positively charged electrode. The fragments spread out according to size.

Step 3: DNA fragments are separated by chemicals into single strands. Because the strands will disintegrate after a day or two, they are transferred from the gel onto a sheet of nylon. DNA probes, which are synthetic DNA segments with known sequences, are labeled with radioactive compounds. The probes are then applied to the nylon, and complementary sequences on the DNA fragments being tested attach to the probes by base pairing.

Step 4: The nylon sheet is exposed to X-ray film, and dark bands appear wherever the fragment DNA (from the sample) has attached to the probe.

Analyze and Conclude

Respond to each question.

- 1. Identify** In Set 2 of the DNA fingerprints, do any of the bands in the alleged father's DNA fingerprint match a band in the child's DNA fingerprint?
- 2. Theorize** What does this result indicate?

Set 1: Paternity Exclusion



Set 2: Paternity Inclusion



Figure 1

The DNA fingerprints in Figure 1 can be used to determine the paternity of a child. In Set 1 of the DNA fingerprints, one of the bands in the child's DNA fingerprint is also present in the mother's DNA fingerprint. Because none of the bands in the alleged father's DNA fingerprint matches the child's bands, he cannot be the father.

Real World Biology Analysis Answer Sheet

Guillaume Favre



Real World Biology Analysis Answer Sheet:

Issues in Life Sciences—Molecular Biology: 2012 Edition ,2013-01-10 Issues in Life Sciences Molecular Biology 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Molecular Biology The editors have built Issues in Life Sciences Molecular Biology 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Molecular Biology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Life Sciences Molecular Biology 2012 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com> *Resources in Education* ,2001 The Beginner's Guide to Engineering: Mechanical Engineering Mark Huber,2023-03-09 The Beginner s Guide to Engineering series is designed to provide a very simple non technical introduction to the fields of engineering for people with no experience in the fields Each book in the series focuses on introducing the reader to the various concepts in the fields of engineering conceptually rather than mathematically These books are a great resource for high school students that are considering majoring in one of the engineering fields or for anyone else that is curious about engineering but has no background in the field Books in the series 1 The Beginner s Guide to Engineering Chemical Engineering 2 The Beginner s Guide to Engineering Computer Engineering 3 The Beginner s Guide to Engineering Electrical Engineering 4 The Beginner s Guide to Engineering Mechanical Engineering **UPSC Psychology Paper-1 & 2 Eassy Writing Practice Book 300 Questions With Answer Given 3 Expert Faculties** DIWAKAR EDUCATION HUB ,2024-01-24 This Book is Designed by Expert Faculties of Psychology those Having more then 10 Year Experience Highlighht of Book Given 300 Questions with Suggested Answer 150 Question of Each Paper As per Optional Paper Pattern Given 10 15 20 Marks Questions Questions Answers Written by Finest faculty of Psyhcology Real World Psychology Catherine A. Sanderson,Karen R. Huffman,2024-11-13 A comprehensive college level introduction to the field of psychology Real World Psychology Applications of Psychological Science provides a well balanced survey of the field with emphasis on scientific thinking and practical applications of psychological science that can expand enhance and change students experience of the world around them Every chapter engages students through illustrative examples and cases thought provoking questions and real psychological research Updated with recent research that underscores the importance and power of psychology in everyday life the fourth edition of Real World Psychology invites curiosity in a Why focused framework of special features Why Scientific Thinking Matters develops scientific thinking skills through examination of a hot topic or common belief and the research supporting or disproving different perspectives Why DEI Matters explores important topics in diversity equity and

inclusion highlighting current research and its applications in effecting a more equitable society and Why Positive Psychology Matters demonstrates how psychological science helps identify the strengths and assets that contribute to health and a flourishing life Throughout this edition the authors pay careful and deliberate attention to issues of diversity equity and inclusion to ensure the representation of multiple perspectives and experiences so that all readers can find respect and a sense of belonging AN INTERACTIVE MULTIMEDIA LEARNING EXPERIENCE This textbook includes access to an interactive multimedia e text Icons throughout the print book signal corresponding digital content in the e text Videos and Animations Real World Psychology integrates abundant video content developed to complement the text and engage readers more deeply with the fascinating field of psychological science Chapter Introduction Videos feature author Catherine Sanderson s casual and lively introduction to the chapter that piques readers curiosity and gives practical everyday context Reading Companion Videos support every learning objective of every module in every chapter These short videos serve as both a preview and a review of the most important concepts discussed in the reading Topical Videos often presented by Catherine Sanderson or Karen Huffman use a documentary style to explore key topics in depth In The Classroom Videos feature short segments of Catherine Sanderson lecturing in her own classroom or a moderated student discussion of selected chapter topics Animations A variety of animations illustrate difficult to learn concepts from a real world and sometimes humorous perspective Interactive Figures Charts Tables Appearing throughout the enhanced e text interactive figures process diagrams and other illustrations facilitate the study of complex concepts and processes and help students retain important information Interactive Self Scoring Quizzes Self Test questions in each Module s Retrieval Practice and a Practice Quiz for each chapter provide immediate feedback helping readers monitor their understanding and mastery of the material

Language in Use Intermediate Self-study Workbook with Answer Key Adrian Doff, Christopher Jones, 1994-07-21 A popular and highly acclaimed four level course which both interests and stretches learners **Applied Graph Data Science** Pethuru Raj, Pushan Kumar Dutta, Peter Han Joo Chong, Houbing Herbert Song, Dmitry A. Zaitsev, 2025-01-27 Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Use Cases delineates how graph data science significantly empowers the application of data science The book discusses the emerging paradigm of graph data science in detail along with its practical research and real world applications Readers will be enriched with the knowledge of graph data science graph analytics algorithms databases platforms and use cases across a variety of research and topics and applications This book also presents how graphs are used as a programming language especially demonstrating how Sleptsov Net Computing can contribute as an entirely graphical concurrent processing language for supercomputers Graph data science is emerging as an expressive and illustrative data structure for optimally representing a variety of data types and their insightful relationships These data structures include graph query languages databases algorithms and platforms From here powerful analytics methods and machine learning deep learning ML DL algorithms are

quickly evolving to analyze and make sense out of graph data As a result ground breaking use cases across scientific research topics and industry verticals are being developed using graph data representation and manipulation A wide range of complex business and scientific research requirements are efficiently represented and solved through graph data analysis and Applied Graph Data Science Graph Algorithms and Platforms Knowledge Graphs Neural Networks and Applied Graph Data Science gives readers both the conceptual foundations and technical methods for applying these powerful techniques Provides comprehensive coverage of the emerging paradigm of graph data science and its real world applications Gives readers practical guidance on how to approach and solve complex data analysis problems using graph data science with an emphasis on deep analysis techniques including graph neural networks GNNs machine learning algorithms graph databases and graph query languages Covers extended graph models such as bipartite directed graphs of place transition nets graphs with dynamical processes defined on them Petri and Sleptsov nets and graphs as programming languages Presents all the key tools and techniques as well as the foundations of graph theory including mathematical concepts research and graph analytics

The Global Nexus 2025 Dr. Pratisha Kumari, Dr. J P Dash ,Dr. Sandhya M. Khedekar ,2025-03-25 It is with great pride and deep appreciation that we present this special volume of The Global Nexus 2025 a compendium of scholarly works that reflect the remarkable spirit of research innovation and collaboration across disciplines This publication stands as a celebration of intellectual rigor and a testament to the power of global academic exchange We take this opportunity to extend our heartfelt congratulations to all the authors whose manuscripts have been selected for inclusion in this prestigious ISBN publication Your work has been chosen through a rigorous peer review process reflecting both the quality of your research and its relevance to the evolving discourse in management law humanities and social sciences Each accepted manuscript adds immense value to this volume contributing to the collective knowledge that will inform future research policy and practice Your contributions go beyond the printed pages they are voices in a global dialogue that seeks to reshape our understanding of the world and our approach to its challenges As editors we have been inspired by your dedication originality and commitment to excellence It is your pursuit of knowledge and innovation that truly makes The Global Nexus 2025 a meaningful and impactful initiative We also extend our sincere gratitude to the partner institutions Eudoxia Research University USA Eudoxia Research Centre India IISc Mumbai India National Academy of Defence Production Nagpur and Gokhale Education Society s SMRK BK AK Mahila Mahavidyalaya Nashik for their unwavering support in making this international conference and publication a resounding success We hope this book not only serves as a reference for scholars and practitioners across the globe but also as an inspiration for future explorations and collaborative efforts in academic and applied research Once again congratulations to all contributing authors Your voices have become part of a global movement toward knowledge driven progress

Techniques in Mathematical Modelling Gautami Devar,2025-02-20 Techniques in Mathematical Modelling is a comprehensive textbook designed to provide students researchers and practitioners with a solid

foundation in the principles techniques and applications of mathematical modelling We cover a wide range of topics from fundamental concepts and analytical techniques to validation methods and emerging trends Each chapter includes practical examples case studies and exercises to reinforce learning and demonstrate real world applications Our book emphasizes the interdisciplinary nature of mathematical modelling with applications in physics biology economics engineering social sciences and more We encourage hands on learning through practical exercises simulations and projects allowing readers to apply theoretical concepts to real world scenarios Additionally we explore emerging trends and challenges in the field including advancements in computational techniques data analytics and interdisciplinary collaborations Written in clear and accessible language Techniques in Mathematical Modelling caters to readers with varying levels of mathematical background making it suitable for undergraduate and graduate students as well as professionals

Industrial Biotechnology and Bioinformatics Mr. Rohit Manglik,2024-03-05 Explores the use of biological systems in industrial processes including fermentation biofuels enzyme technology and use of computational tools for biological data analysis

Social and Emotional Learning Kathryn Wentzel,2025-05-16 This book brings together influential scholars of social and emotional learning SEL to discuss current issues in the field Chapters address issues related to theory and research educational reform and intervention social justice neurobiology and assessment Children engage in a wide range of school related tasks that require not only cognitive and intellectual skills but also social and emotional competencies that set the stage for academic engagement and learning In recognition of these competencies scholars have increasingly focused on questions concerning social and emotional learning SEL What must children learn to be socially competent students And how might educators support the development of these skills most effectively This volume features scholars of SEL at the forefront of these efforts Chapters address issues related to theory and research educational reform and intervention social justice neurobiology and assessment They describe a prevention science approach to SEL detail a comprehensive implementation model for their RULER approach to SEL advocate for transformative SEL that focuses on cultural and contextual issues describe advances in neurobiology that suggest a reciprocal relationships between brain development and social emotional experiences delve into the challenges and opportunities of using SEL assessments in applied work as well as comment on strengths and remaining challenges to the field of SEL This book was originally published as a special issue of Educational Psychologist

Evolutionary Ecology Charles W. Fox,Derek A. Roff,Daphne J. Fairbairn,2001 This text unifies conceptual and empirical advances in evolutionary ecology and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts The book is divided into five sections an overview of the major topics in evolutionary biology for ecologists sections on life histories behavior coevolution and adaptation to anthropogenic change Midwest **English as an Additional Language in Research Publication and Communication** Sally Burgess,Pedro Martín-Martín,2008 This book brings together a collection of selected empirical studies by researchers and English for Academic Purposes professionals

working with scholars who use English as an additional language and who face barriers to publication when communicating the results of their research in the international context The contributions have their origins in papers and workshops presented at the conference Publishing and Presenting Research Internationally Issues for Speakers of English as an Additional Language PRISEAL which took place at the University of La Laguna Spain from 11 to 13 January 2007 The various issues which are addressed in this volume are grouped into three main themes 1 Descriptive studies of linguistic and rhetorical features of written and spoken academic genres 2 Contrastive studies of academic discourse with a focus on rhetorical preferences of members of scientific communities across cultures disciplines and genres 3 Studies which evaluate English for Academic Purposes courses and materials in terms of how successfully they develop the scholar s ability to communicate more effectively in English

Authentic Problem Solving and Learning in the 21st Century Young Hoan Cho, Imelda S. Caleon, Manu Kapur, 2015-08-12 With the rapid changes in the social political economic and technological landscape around the world today s learners face a more globally competitive job market after leaving school The 21st century which is characterized by the emergence of knowledge based societies expects learners to be comfortable in dealing with ambiguities and complexities in the real world and to be able to use knowledge as a tool at their workplace This book will help readers develop an in depth understanding of authentic problem solving and learning and how it can be used to make a difference in their school or learning communities for the development of 21st century competencies Comprising 20 chapters written by Singapore based and international authors the book is organized into three themes authentic problems authentic practices and authentic participation It details innovative school practices e g productive failure concerning the design of problems learning activities learning environments and ICT tools for authentic problem solving and learning Along with theoretical explanations of authentic learning processes and outcomes the book also elucidates how students learn by generating and exploring solutions to complex problems and which cognitive functions are needed at different stages of problem based learning Presenting coherent descriptions of instructional design principles successful cases and challenges encountered in K 12 schools and learning communities the book provides useful information new insights and practical guidance for school directors parents teachers and researchers seeking to develop authentic learning environments for 21st century learners

Politics: The Key Concepts Lisa Harrison, Adrian Little, Ed Lock, 2015-02-11 *Politics The Key Concepts* is an up to date and broad ranging introduction to the terms that lie at the heart of political discourse Entries are drawn from areas such as political theory international politics political science and methodology As well as explaining core established principles this informative guide explores some of the more complex topical and contested concepts from the world of politics Concepts covered include Capitalism Class Identity Institutionalism Referendum Marxism Pluralism Postmodernism Socialism Social Constructivism In an accessible A Z format with helpful cross referencing and suggestions for further reading *Politics The Key Concepts* is an invaluable reference for all students of politics international relations and related

courses **Study Guide for CTET Paper 1 (Class 1 - 5 teachers) with Past Questions 5th Edition**

9789387045941,2020-05-01 Hybrid Artificial Intelligent Systems Hilde Pérez García,Lidia Sánchez González,Manuel Castejón Limas,Héctor Quintián Pardo,Emilio Corchado Rodríguez,2019-08-26 This volume constitutes the refereed proceedings of the 14th International Conference on Hybrid Artificial Intelligent Systems HAIS 2019 held in Le n Spain in September 2019 The 64 full papers published in this volume were carefully reviewed and selected from 134 submissions They are organized in the following topical sections data mining knowledge discovery and big data bio inspired models and evolutionary computation learning algorithms visual analysis and advanced data processing techniques data mining applications and hybrid intelligent applications **Empathy and Business Transformation** Melanie Sarantou,Satu Miettinen,2022-10-05 Due to its potential transformative nature empathy has increasingly received attention in business psychology neuroscience education medicine social sciences and design to mention only a few During the last two decades discussions about the role of empathy in design and creative research and practice have developed with empathy perceived as a key instrument in human centred design and design thinking This book revisits the powerful concept of empathy in the new post pandemic era in which ubiquitous digitalisation presents challenges to retaining human centredness when developing products and services The book presents a practical four step approach to the challenges presented concerning how organisations can turn from merely feeling empathy with or for people to actions of empathy and compassion that can be implemented with and by communities A wide range of organisations and organisational settings can benefit from the presented case studies and research methods Through them the book explores how to discover share and act with empathy and compassion in the new digitally driven post pandemic era to innovate across a wide range of organisations including for profit and not for profit businesses and those in the public and third sectors This edited volume will appeal to global researchers in the fields of product and service design and digital social innovation as well those interested in organisational development The practical interdisciplinary nature of the book and innovative four step approach will also appeal to upper level students **Inquiry Into Life** Sylvia S. Mader,2008 G Mrs T Peterson 5 2008 **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 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 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

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