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ction of biosciences and technology has yielded transformative advancements, and Generative Artificial apidly evolving healthcare environment, one technology stands at the forefront of innovation: large language and a standard control of innovation and a standard control of the standard control of th ular disease remains the world's leading cause of mortality, yet everyday care still relies on episodic, syn Ecosystems (PDEs) are increasingly viewed as dynamic socio-technical systems shaped by evolving inter lage models (LLMs) are revolutionizing specialized fields by enabling advanced reasoning and data synth ast two decades, Web Intelligence (WI) has emerged as a key field driving the evolution of AI in the conn ction of green finance and artificial intelligence (AI) represents a rapidly emerging and high-impact resea creasingly threaten human life, ecosystems, and infrastructure, with events like the 2025 Palisades and racts have become integral to decentralized applications, yet their programmability introduces critical se ation serves as a critical foundation for artificial intelligence (AI) and machine learning (ML). Recently, AI ehensive review maps the fast-evolving landscape in which artificial intelligence (AI) and deep-learning (lage Models (LLMs) have become pivotal in reshaping the world by enabling advanced natural language ive As an important engine for developing new quality productivity, large models play a crucial role in of Large Language Models (LLMs) and generative AI is fundamentally transforming information retrieva Al search driven by large language models (LLMs) is reshaping information retrieval by offering end-to-e uing new goals, people often struggle to determine what actions to take. Large-language-model (LLM) cl r explores the integration of generative artificial intelligence (GenAI) technologies, particularly large languages ing the potential to support learning interactions, emerging AI applications like Large Language Models ntelligence is recognized as a critical pathway for achieving efficient integration and collaboration amon transformation of the Architecture, Engineering and Construction sector is accelerating the adoption of pplication: The proposed intelligent filtering system can be seamlessly integrated into platforms utilizing n spaces are essential for ecosystem functioning, human wellbeing, and social cohesion. Urban greening investigates the feasibility and potential role of using Large Language Models (LLMs) to support systemic nd unprecedented dominance of Artificial Intelligence (AI), particularly through Large Language Models Artificial Intelligence has emerged as a transformative force across multiple domains of computer scien ement of generative AI has profoundly impacted various aspects of society, including scientific research g volume and complexity of medical imaging outpaces the available radiologist workforce, risking timely transformative potential of artificial intelligence (AI), small and medium-sized enterprises (SMEs) continuing proposes an Al-assisted governance framework to enhance decision-making within decentralized autono explores the evolving relationship between Digital Twins (DT) and the Metaverse, two foundational yet tion of artificial intelligence (AI) technologies is reshaping diverse domains of human activity, including r ents in large language models (LLMs) have transformed Al-driven education, enabling innovative applicaract vulnerabilities have emerged as a significant threat to blockchain system security under the Web 3.0 utterflies are generally viewed positively in society, whereas other insects, such as wasps or flies, are oft examines the role of news media in the context of generative AI-enhanced search engines, focusing on t ape of software engineering is undergoing a transformative shift driven by advancements in machine lea development of Web Intelligence has heightened privacy concerns among end-users. Federated intelligence uage Models (LLMs) have transformed human-centric AI applications on the Web, yet they often exhibit volution of Large Language Models (LLMs) has profoundly impacted social media, transforming how info Twins (DT) have emerged as a digital transformation automation process with ubiquitous applications the entary examines the dual role of artificial intelligence (AI) in shaping electoral integrity and combating m guage has a powerful artificial intelligence algorithm library. This study adopts a project driven approach gnificance] Through interdisciplinary comparison, the core connotation, common core and field differen gnificance] Currently, large language models (LLMs) and agents have emerged as core technical paradigr The Low Altitude Intelligent Network (LAIN) has emerged as a critical productive force in recent years, ual imperatives of global trade expansion and low-carbon transition, intelligent maritime shipping has en (1) Describe the evolution of Health Information Exchanges (HIEs) into Health Data Utilities (HDUs); (2) deeply explore the current research hotspots and development trends of ChatGPT generative artificial in pplications of artificial intelligence (AI), such as virtual and physical service robots, generative AI, large la 2 Micro-LED displays have excellent performance, such as high brightness, high resolution, vivid colors, κ explores the development and implementation of an intelligent incident management system leveraging crease in ownership of Internet of Things (IoT) devices, there is a bigger demand for stronger implement is less technologized than other language services, (partial) automation has also been witnessed in literation aage Models have been incorporated into an astounding breadth of professional domains. Given their cε ch explores the development of an Intelligent Collaborative Supply Chain Management (iCSCM) system, hildren and teenagers on environmental issues is crucial, as they not only internalize the importance of entary outlines Türkiye's significant progress in ad vancing its research, development, and innovation (RI Artificial Intelligence (GAI) has recently emerged as a promising solution to address critical challenges o 1/Objectives: Artificial intelligence (AI) is transforming healthcare, enabling advances in diagnostics, trea age models (LLMs) have revolutionized the field of artificial intelligence in both academia and industry, eviews the role of artificial intelligence (AI) in enhancing healthcare through an analysis of physician-toreductionist biology at the dawn of the genome era yielded a 'parts list' of plant genes and a nascent up model-enabled generative artificial intelligence facilitates the development and implementation of age :: Advances in artificial intelligence (AI) must be matched by efforts to better understand and evaluate h landscape of AI presents both opportunities and obstacles. Over the decades since the concept of Artific ystems in the midst of digital transformation utilize technologies like Internet of Things (IoT), big data, a ing, explosive developments in generative artificial intelligence (GenAI), built on large language models atcomes: The case is designed taking into consideration the three learning domains of Bloom's Taxonom ch examines the impact of Large Language Models (LLMs) on entrepreneurial development among micro investigates the integration of cognitive agents powered by Large Language Models (LLMs) within the Sc :elligence (AI) and its applications in digital health, bioengineering, and society have significant material artificial intelligence (GenAl) tools, such as large language models (LLMs), generate natural language an e the arguments made by Onitiu and colleagues concerning the need to adopt a backward-walking logic lage Models have become a foundational component of modern artificial intelligence, but their develop The purpose of this research is to look backward the status quo of big data research in the construction i re everywhere, and their detection is not an easy task at all. There are both manual rumour detection as lly evolving landscape of cloud-native computing, Organizations are increasingly adopting infrastructure pid development of artificial intelligence, big data analytics, and high-performance computing, tradition ence of generative AI (GenAI) is a major driving force behind the modern data science ecosystem, a field ignificance] The evolution of smart libraries has ushered in a new era, marked by the integration of mult radio-frequency integrated circuit (RFIC) design has traditionally been defined by its inherent complexit creasing volume of data from buildings and affordable powerful computing, artificial intelligence (AI) ha aage Models (LLMs) have achieved remarkable success across a variety of natural language processing tε

ears, large artificial intelligence models have become the focus of the global science and technology field in the rapid integration of Artificial Intelligence (AI) in education offers transformative opportunities to a AI and Agent-Based Models (ABMs) are transforming marketing with the ability to develop accurate, and tion of artificial intelligence in educational settings holds great promise but also faces numerous challen ugmented generation (RAG) seamlessly combines information retrieval with generative artificial intelligence (AI) analytics to address complex health challer on of smart, interconnected IoT devices is driving demand for higher performance, real-time processing

tion of artificial intelligence (AI) into China's medical physiology education has emerged as a transforma are a key pillar of the European Union's digital strategy, designed to facilitate secure, interoperable, and r Cancer Center Leaders Session 2 Natural Language Processing for Biomedical Text Medical data is not ment of large language models (LLMs) on edge devices faces significant challenges due to limited compu of 6G networks is driving a paradigm shift toward AI-native infrastructures, embedding artificial intellige telligence (AI) agents represent a transformative advancement in global Information Technology (IT) ma gence of artificial intelligence (AI) and wearable biosensors is revolutionizing personalized healthcare, en libraries (TPLs) are an integral part of Android app development, offering app developers essential tool: explores the potential of federated large language models (FLLMs) for privacy-preserving artificial intelli synthesizes key insights from emerging IEEE Artificial Intelligence Standards Committee (AISC) standards er, we introduce INvadeAI, a novel interactive advertising framework that leverages multimodal AI to mo se of large language and vision-language models, AI agents have evolved into autonomous, interactive sy arge language models (LLMs), emerging as strategic assets in global information ecosystems, represent a 1: Digital interventions have been proposed as a solution to meet the growing demand for mental health evelopment of Artificial Intelligence (AI) systems, and particularly Large Language Models (LLMs), has al cosystems, such as the Internet of Things (IoT), evolve, cyber threats have become increasingly sophistic : In the context of the rising global prevalence of obesity, traditional intervention measures have proven racts, integral to decentralized finance (DeFi) and blockchain ecosystems, are increasingly vulnerable to Is become integral to modern digital ecosystems, their increasing complexity and widespread adoption I t Detection and Ranging) is one of the most innovative technologies in the field of remote sensing, capa lage models, a cutting-edge technology in artificial intelligence, are reshaping the new paradigm of chron ive Artificial Intelligence (Gen AI) is evolving rapidly, there is a significant change in the approach by the enerative artificial intelligence (GAI) has disrupted the information ecosystem due to its capacity to proc to traditional digital technologies, generative artificial intelligence (GenAI) exhibits two facets—open-en tion of artificial intelligence (AI) technologies into digital transformation processes in Turkey plays a sign artificial intelligence and large model agents are revolutionizing the higher education, influencing every explores the application of large language models (LLMs) in designing strategic mechanisms - including a on to 6th generation (6G) mobile networks is a crucial step toward ubiquitous coverage, ultra-broadban dings contain 16 papers. The special focus in this conference is on Intelligent Computers, Algorithms, an nic seminar on "Wisdom and Service Libraries and Modern Civilization hosted by the School of Informati er explores the emerging field of adopting artifical intelligence (AI)/machine learning (ML)-powered textu roid operating system dominates the mobile ecosystem, its open-source nature has made it increasingly deploying automated decision-making tools is a crucial requirement for conducting successful business 1: The integration of diverse clinical data sources requires standardization through models such as Obser dings contain 29 papers. The special focus in this conference is on Applied Algorithms. The topics include e food requirements of the growing population worldwide, the agricultural domain is being technological rovides a thorough and unique overview of the challenges, opportunities and solutions related with dat Al (GenAl) is disrupting global IT management and challenging established practice. The increasing use a uage Models (LLMs) are a significant advancement in artificial intelligence (AI), capable of learning from moment of intense competition in the artificial intelligence (AI) field, DeepSeek has released foundation lease and application of open-source large language models (LLMs) represented by DeepSeek, open-sou smart manufacturing environments, human involvement remains critical for addressing complex tasks tl

Intelligence (GenAI) started to stand at the forefront of this synergy. In the field of life sciences, GenAI i guage models (LLMs). Far more than a fleeting hype, LLMs represent a foundational shift in how healthc nptom-driven interventions that detect ischemia, arrhythmias, and remodeling only after tissue damage ractions among actors, infrastructures, data types, and governance mechanisms. Yet, most existing reservance esis. Environmental science, however, poses unique hurdles due to its interdisciplinary scope, specialize ected world, addressing the demands of a future intelligent society. This paper provides a comprehensive arch domain with the potential to reshape sustainable economic systems. This study presents a comprel Eaton fires in Los Angeles County underscoring the urgent need for more advanced prediction framewo ecurity risks, exemplified by high-profile exploits such as the DAO and Parity Wallet incidents. Existing vu I agents powered by large language models (LLMs) have emerged as effective solutions to longstanding DL) techniques converge with the Internet of Things (IoT) to manage energy, comfort, and sustainability processing tasks such as document analysis, content generation, and conversational assistance. Their al 1 supporting the transformation and upgrading of traditional industries and basic scientific research. The I and processing on the Internet, bringing both great potential and significant concerns regarding conter and answers to complex queries, reducing users' reliance on manually browsing and summarizing multip hatbots can provide information and interactivity, and combining them with context awareness could er guage models (LLMs) and retrieval-augmented generation (RAG), into multi-agent systems (MASs) for sr (LLMs) come with ethical concerns. Grounding technology design in human values can address AI ethics g humans, robots, and the physical world, with its core lying in the deep fusion of humans, robots, and t digital platforms as critical enablers of data integration, stakeholder collaboration and process optimization ; large language models (LLMs), including customer service chatbots, educational tutors, healthcare assis 3, as a dynamic process, requires citizen engagement to integrate their lived experiences. The value co-c c risk audits under the European Union's Digital Services Act (DSA). It examines how automated tools can (LLMs), has raised critical trust challenges in high-stakes domains like politics. Biased LLMs' decisions and ce, including Web Engineering. By leveraging models such as Generative Pretrained Transformers, Diffus , but its application in landscape research remains underexplored. In this study, large language models a v diagnosis. Comprehensive artificial intelligence (AI) that integrates multimodal imaging data, clinical no nue to face significant challenges in its effective adoption. While prior studies have emphasized strategic mous organizations (DAOs). By integrating chain-of-thought (CoT) reasoning with stakeholder-adaptive often conflated digital paradigms in digital architecture. While DTs function as mirrored models of real-v natural resource management, urban and rural planning, agri-food systems, industry, energy, education, tions across various learning and teaching domains. However, LLMs still face several challenges, includin D ecosystem. According to recent research, large language models (LLMs) have demonstrated immense en underappreciated despite their essential ecological roles. As biodiversity loss continues to pose a ma he 2024 Taiwan presidential election. Using Microsoft's Copilot, we conducted a comparative analysis by rning, Artificial Intelligence (AI), and autonomous systems. This roadmap article explores how these tecl ence offers a novel approach to restructuring Web Intelligence within a federated setting to better prote stereotypes and biases, especially in sensitive contexts like cultural differences in low-resource languag ormation is generated, disseminated, and analyzed. With their ability to process vast amounts of data, g nat span various domains, including buildings, manufacturing, and healthcare. These virtual clones of ph isinformation, with a focus on the 2025 Philippine elections. It investigates how AI has been weaponise and fully utilizes graphical visualization programming tools such as Raptor and Orange3 to assist teaching tiation of the Agent concept are revealed, the Agent-related concepts and theories contained in library: ns in artificial intelligence, with their integration into scientific research scenarios holding profound sign

particularly with the growing strategic role of the low-altitude economy in national development plans. merged as a central driver for the innovation of international logistics systems, now entering a critical w Provide motivation for HDUs as a public strategic investment target. Materials and Methods: We examine ntelligence in empowering higher education applications, this study conducted a detailed analysis of 178 inguage models and decision support systems, alter the nature of services. Most service research center ong lifespan, and fast response speed. They are expected to become disruptive display technology follow ; artificial intelligence (AI), knowledge engineering, and mathematical modeling to optimize enterprise o tation of security mechanisms and addressing zero-day vulnerabilities. This work is the first to provide a ary translation. Since 2017, neural machine translation (NMT) systems such as DeepL and, subsequently apabilities, many intellectual laborers naturally question to what extent these AI models will be able to u driven by Large Language Models (LLMs), to enhance operational efficiency and facilitate collaboration ecological preservation but can also share this knowledge at home, spreading awareness within their fa DI) ecosystem, led by TÜBİTAK in alignment with the National Technology Move and the Twelfth Develo f blockchain technology, including scalability, security, privacy, and interoperability. In this paper, we fire tment optimization, and patient care. Yet, its integration raises ethical, regulatory, and societal challeng transforming how we communicate, search for information, and create content. However, these model physician communication. It seeks to identify the best practices for extracting value from professional m nderstanding of complex biological processes. Today, with the genomics era in full swing, advances in his nts, which can leverage distinguished reasoning and language processing capabilities to takes a proactiv ow AI performs across health care and biomedicine as well as develop appropriate regulatory framewor ial Intelligence (AI) was initiated, AI has witnessed waves of development, from early attempts to create nd artificial intelligence (AI) to elevate citizens' well-being and champion sustainable development. Not and related algorithms, has led to much excitement and speculation about the potential impact of this I y (Bloom et al., 1956) - cognitive, i.e. knowledge and thinking; affective, i.e. feelings and attitude; and p pentrepreneurs in Barranquilla, Colombia. Through a mixed-methods investigation, the study evaluates caled Agile Framework (SAFe) to reinforce software project management. By deploying virtual agents in impacts on the environment owing to Al's vast energy demands and energy consumption, carbon footput d other types of content to perform a wide range of tasks. This represents a significant technological adv to manage the risks arising from the use of Large Language Models (LLMs) adapted for a medical purpo ment is often hindered by inadequate data governance, resulting in challenges such as hallucinations, ir ndustry in the last 15 years, from 2010 to 2024 and look forward the research frontiers and openings fo proaches like reader-added context supported by some social media platforms, and automatic approac models that emphasize scalability, flexibility, and efficiency. Kubernetes has become the de facto standard al homogeneous architectures are increasingly unable to meet the growing computational demands, pa that exploits data as the central asset for actionable insights. Analogously, GenAI is a form of artificial ir imodal learning technologies that combine information from various modalities such as speech, images y, reliance on manual iterations, and dependence on domain-specific heuristics. Recently, however, this s been explored in various applications for building energy modeling (BEM), including collecting input da asks, with larger architectures often exhibiting superior performance. This scaling behavior has fueled in

I with their excellent performance and wide application potential. Large models usually refer to deep leanhance teaching and learning. Among these innovations, Large Language Models (LLMs) like ChatGPT h aptive, and consumer-centered strategies. ABMs model interactions among agents such as consumers, ges and critical issues. This paper provides a macro-level analysis of the factors influencing the implemeence, allowing large language models (LLMs) to enhance the accuracy and relevance of responses by dyrnges. With the rise of digital twins in industrial automation, the focus has shifted toward creating cyber, and self-* capabilities (self-adaptation, self-reconfiguration, self-healing) across heterogeneous platfor

tive strategy to modernize pedagogical practices and address systemic challenges in healthcare training d sovereign data sharing across various sectors while ensuring regulatory compliance. These ecosystems only numeric but also composed of unstructured text. These algorithms listen to various medical imagin atational resources, memory bandwidth, and strict power constraints. While RISC-V architecture offers a ence deeply across multiple operational layers. This evolution necessitates transparency, trustworthines nagement, introducing autonomous, goal-driven systems capable of reasoning, adapting, and executing nabling continuous monitoring, early detection of health issues, which enhances the efficiency of data p s for enhancing app functionality, design, and integration capabilities. However, the fast-paced evolution gence (AI) and intelligent management in emerging fifth-generation (5G) and sixth-generation (6G) wire ; - P3394 and P3428 - that are shaping agent-based software engineering for intelligent systems. IEEE P3 onetize Large Language Models (LLMs) while enhancing digital advertising experiences. Our multi-stage f ystems capable of perception, reasoning, and decision-making. As they proliferate across virtual and phy advanced AI system developed under distinct national governance regimes. This study examines how me 1 support. Large language models (LLMs) have emerged as a promising technology for creating more per ready started changing how software is written in industry. In this work, we categorize two important fe tated, posing greater challenges for Network Intrusion Detection Systems (NIDS). Artificial intelligence, p insufficient to meet the demands of personalized and sustainable health management, necessitating th exploits due to coding errors and complex attack vectors. Traditional static analysis tools and existing vu nave made them appealing targets for cyberattacks. Effective detection and prevention mechanisms are ble of accurately reconstructing the three-dimensional (3D) structures of the objects being measured. O nic ocular diseases management. In this study, we comprehensively examined the current status and tre contact center industry with respect to work culture. Historically, customer service agents working in a c duce large language models. Defining clear regulatory strategies for GAI policies is crucial to achieving the dedness and inscrutability—that create challenges for the value co-creation of complementors in GenAl ificant role in the dissemination of high-tech products. Large Language Models (LLMs) and Natural Lang thing from talent development frameworks and teaching methodologies to knowledge acquisition proce nuctions, contracts, and games- for specific purposes in communication networks. Traditionally, strategic and connectivity, and comprehensive support for Internet of Things (IoT) applications such as autonomous d Applications. The topics include: Artificial Intelligence Modelling Paths for Reasoning Argumentation N on Management at Wuhan University and the editorial department of the Journal of Library Science in (all analysis for instructional improvement within the structure of the Instructional Core Framework. It re vulnerable to sophisticated malware attacks. Traditional security techniques, such as static and dynami activities and efficient transactions. Hence, leveraging emerging artificial intelligence (AI) techniques, co vational Medical Outcomes Partnership (OMOP). However, mapping data elements to OMOP concepts e: On the Characterization of Eulerian es-Splitting p-Matroids; approximability of Edge-Vertex Dominatic ally empowered to produce more with fewer resources and investments. Fortunately, the faster maturit a protection in the age of AI and ML technologies. It investigates the interface of data protection and ne of GenAI technology is redefining localization, transforming existing workforce roles, outsourcing strateg vast textual datasets and excelling in tasks such as text generation and translation. However, the curren nal large language models (LLM) such as V3/R1, with performance comparable to leading international c arce innovation has played an increasingly important role in the rapid development of global artificial int nat require adaptability and decision-making, despite the growing presence of automation and artificial

s emerging as a catalyst, accelerating drug discovery by swiftly generating and predicting novel molecule are professionals interact with and derive value from data. From simplifying clinical note-writing to supp has begun, limiting the effectiveness of therapy. A narrative review synthesized 183 studies published k arch remains static or domain-specific, offering limited insight into the temporal and co-evolutionary dy d jargon, and heterogeneous data from climate dynamics to ecosystem management. Despite progress ve review of WI's contributions since its inception in 2000, spanning three distinct phases: Wisdom Worl nensive bibliometric and network analysis aimed at mapping the scientific landscape, identifying researc rks. Existing physics-based and deep-learning models struggle to capture dynamic wildfire spread across Ilnerability detection methods, including static and dynamic analysis, as well as machine learning-based challenges in data annotation, such as scalability, consistency, cost, and limitations in domain expertise. across smart environments. A PRISMA-guided search of four databases retrieved 1358 records; after as bility to process and generate human-like text has unlocked unprecedented opportunities across differe forestry and grassland industry is characterized by vast geographical coverage, complex types, and high at authenticity and reliability. This paper presents a novel quantitative approach to shed light on the con le web pages. However, while this paradigm enhances convenience, it disrupts the feedback-driven imp nhance the relevance and proactivity of action recommendations. However, there is a gap in understance nart urban mobility. The proposed framework leverages intelligent transportation systems (ITS) data, ac and ensure adoption. To this end, we apply Value-Sensitive Design—involving empirical, conceptual anc the physical environment, to enhance the capabilities of agents in perception, cognition, and collaboration tion. This paper presents a systematic review of 125 peer-reviewed journal articles (2015–2025), selecte stants, and code-generation tools. By dynamically identifying and mitigating harmful, biased, or unethically identifying and mitigating harmful ha reation approach offers a promising framework to facilitate citizen involvement in shaping urban green n enhance the work of DSA auditors and other ecosystem actors by enabling scalable, explainable, and le d misinformation undermine democratic processes, and existing trust models fail to address the intricac sion Models, and Large Language Models, developers can now automate, augment, and innovate tradition are applied to analyze cultural ecosystem services, which are a key connection between humans and nat ites, and large language models has the potential to support radiologists. Accordingly, the U.S. Food and benefits and readiness models, there remains a lack of operational guidance tailored to SME realities recommendations, the framework improves decision alignment, increases voter participation, and enha vorld systems—integrating IoT, BIM, and real-time analytics to support decision-making—Metaverses ar and healthcare. However, the impact of AI on the sustainability of local ecosystems remains insufficien ig hallucination and static internal knowledge, which hinder their reliability in educational settings. Retripotential in smart contract security audits but still lack the capability for effective vulnerability detection jor challenge for humankind, it necessitates a re-evaluation of these biases to support the protection of y prompting election news in five languages: English, Traditional Chinese, Simplified Chinese, German, a hnologies are reshaping the field, positioning humans not only as end users but also as critical compone ect privacy. Additionally, the advent of large foundation models has notably enhanced the capability of i es such as Bengali. In this work, we investigate cultural bias in LLMs by evaluating their performance in I rasp contextual nuances, and engage in human-like dialogue, LLMs present new opportunities and chalk ysical systems provide relevant insights, enhance decision-making processes, and optimize operations, a d to manipulate narratives and suggests strategies to counteract disinformation. Drawing on case studie ng. At the same time, with the help of large models to assist programming, the cultivation of mathemati science are revealed, and the innovative value of AI Agent driven by large language models to the core s ificance for transforming research paradigms. Traditional scientific research is facing an increasing numk

As an integral part of smart city infrastructure and advanced air mobility systems, LAIN contributes both indow period for the deep integration of Internet technologies and automated port infrastructure. While ne trends in developing HIEs into HDUs and compare their criticality to that of the national highway syst 3 articles related to ChatGPT+higher education in the knowledge Resource Database. By using software 1 's on the division between human and AI resources. Less attention has been paid to analyzing the entang wing liquid crystal display (LCD) and organic light emitting diode (OLED), especially in fields like micro-pro perations. Enterprise incident resolution can be conceptualized as a complex network of interdependen platform that combines featureless approaches with artificial intelligence (AI) algorithms, which are dee , large language models (LLMs) such as ChatGPT have been drastically changing, if not revolutionizing, th isurp their own jobs. As behavioral scientists, we performed an effort to examine the extent to which ar among academic, governmental, and private sectors in advancing University Holding Companies (UHCs) milies and communities about these delicate matters. In this work, we introduce an innovative approach pment Plan. Key strategic objectives include fostering high-technology production, enabling digital and s st introduce GAI techniques, outline their applications, and discuss existing solutions for integrating GAI es. Key concerns include data privacy risks, algorithmic bias, and regulatory gaps that struggle to keep p s face knowledge cutoffs and costly updates, driving a new ecosystem for LLM-based applications that le nedical chats (PMCs) and assess the impact of AI on patient outcomes and healthcare systems, emphasiz gh-definition genomics enabled precise temporal and spatial analyses of biological systems down to the e, autonomous role to pursue users' goals. Nevertheless, there is a lack of systematic knowledge to guic ks. This Special Communication reviews the history of the US Food and Drug Administration's (FDA) regions. e human-like conversational agents to the recent surge in deep learning and big data. The 21st century h ably, LLMs such as GPT-3 or GPT-4, crafted by OpenAI, and Google's AI tools like Gemini and Bard, stand new technology. Claims include artificial intelligence (AI) being poised to revolutionize business and soci sychomotor, i.e. specific applied skills. Accordingly, these learning objectives are identified: to frame two LLM interventions, Claude Sonnet and Chat GPT 3.5, in comparison to conventional entrepreneursh simulated software environments, this study explores their potential to fulfill fundamental roles in IT pro rints, and water usage to cool data centers and generate electricity to power the data centers. Yet, the ϵ vancement that poses opportunities and challenges to educational research and practice. This comment se. We examine what lessons can be learned from existing multi-use technologies and applied to specia itellectual property violations, and security vulnerabilities. In light of emerging regulatory requirements, r future research. In recent years, big data has increasingly become a new research hot spot in the cons hes like AI models that detects rumours using various architectures. Both methods take some time to do ard for orchestrating containerized applications in these environments. However, the inherent complexi rticularly in parallel computing and immediate data processing scenarios. The application of heterogene ntelligence which learns from massive datasets to generate new data, showcasing human-like creativity , and video. This cutting-edge technology is revolutionizing traditional information service systems by pr landscape has been undergoing a transformative shift propelled by advancements in Artificial Intelliger ita, creating and tuning energy models, managing simulation runs, and extracting insights from large vol tense competition in generative AI, supported by projected investments that exceed \$1 trillion to develop

arning models with massive parameters, such as OpenAl's GPT series, Google's BERT, etc., which can har old immense potential for instructional design, personalized learning, and administrative efficiency. How firms, and influencers to reveal behavioral patterns and campaign optimization. At the same time, Large ntation of generative large models in foreign language education. Eight dimensions are identified, each namically retrieving and integrating contextual knowledge from external databases. In education, RAG has twins (CT) models that simulate patient conditions, reducing the risk of misdiagnosis on actual patients. ms. CPUs, GPUs, and FPGAs now provide exceptional compute power but greatly complicate software to

. Current initiatives leverage AI-driven tools such as machine learning algorithms for physiological simula s enable seamless data exchange among businesses, governments, and individuals, fostering advanceme g, genomic data, and electronic health records to find correlations that can predict different diseases. U idvantages in edge computing through its modularity, scalability, and open-source ecosystem, the LLM is is, and explainability to foster reliable and accountable network decisions. Explainable AI (XAI) technique decisions across distributed IT ecosystems. By leveraging Large Language Models (LLMs) and advanced rocessing and real-time decision-making. Multimodal Large Language Models (MLLMs) play a pivotal rol n of Android APIs introduces compatibility issues not only in Android apps but also in TPLs as they rely he less networks. Using federated learning (FL), FLLMs enable decentralized model training at the network 394 (LLM Agent Interface) defines a Universal Message Format (UMF) and communication protocols for ramework integrates YOLOv8 for product detection in visual media, BLIP3 and OCR for caption generation /sical domains, the Internet of Agents (IoA) has emerged as a key infrastructure for enabling scalable and odel origin and governance context influence AI-generated narratives on international territorial dispute sonalized and adaptive mental health chatbots. While LLMs generate responses based on statistical pat eatures of modern AI systems - structured outputs and tool-use - and explain how the security of each is particularly Large Language Models (LLMs), enhances cybersecurity through log analysis, anomaly detect ie exploration of innovative solutions through innovative technologies. This study explores how advance Illnerability detection methods often fail to address these challenges comprehensively, resulting in high 1 crucial, and machine learning (ML) techniques provide promising solutions for identifying anomalous A ver the past few decades, LiDAR technology has advanced rapidly, significantly promoting research in the ends in the application of large language models in major blinding chronic ocular diseases such as glauco contact center used to depend significantly on static scripts and fragmented information systems, which e objective of information governance in the digital and intelligent era. Furthermore, this is the appropr platform ecosystems. For example, complementors lack standardized, reusable functionality that powe uage Processing (NLP) techniques are supported by innovative solutions developed by HAVELSAN. Durin esses and research paradigms. Meanwhile, in the context of digital transformation and technological inn mechanism design in telecommunications has relied on human expertise to craft solutions based on ga s driving, remote control, and more. This leap will be facilitated by the integration of space-air-ground-si Aethods for Criminal Evidence; parallel Decomposition Method for Deep Learning Models Based on Imp China focused on multiple themes of "wisdom and service in the context of the new era. The sub-forum eviews existing studies on AI/ML applications in analyzing teacher, student, and content data, emphasizing c code analysis, often fail to detect modern malware due to issues like code obfuscation and limited sca injugated with natural language processing (NLP) will strengthen the decision support systems (DSS) that demands significant technical expertise and time. While large health care systems often have resources on in Unit Disk Graphs; density Extrema of Integer Points in Standard Hexagons; Dilution with Digital Mic y and stability of digital (digitization and digitalization) technologies and tools have laid a stimulating and w technologies, emphasising the growing need to safeguard personal and confidential data from unautl y, and team dynamics. Simultaneously, GenAl's security complexities have prompted the rethinking of ϵ t general LLMs often do not meet the specific requirements of the public sector and other entities in Eu organizations like OpenAI. This not only demonstrates China's technological innovation capabilities in AI :elligence (AI) technology. Through technological innovation, cost reduction, performance improvement intelligence. This paper introduces SAMBA - Service-Augmented Manufacturing-Based Approach, an inne

es. This expedites the identification of potential drug candidates, significantly reducing time and costs co porting patient engagement and enhancing administrative processes, LLMs have the power to transform between 2016 and 2025 that were located through PubMed, MDPI, Scopus, IEEE Xplore, and Web of Scie namics of PDEs. To address this gap, this study adopts a theory-building approach to examine how PDEs in subdomains like hydrology and climate modeling, no integrated framework exists to generate high-qu ld Wide Web (WI 1.0, 2000-2009), Wisdom Web of Things (WI 2.0, 2010-2017), and Wisdom Web of Ev h hotspots, and highlighting methodological trends at this nexus. A dataset of 268 peer-reviewed public both 2D and 3D domains, especially when incorporating real-time, multimodal geospatial data. This pay approaches, often struggle with emerging threats and rely heavily on large, labeled datasets. This study These agents facilitate intelligent automation and adaptive decision-making, thereby enhancing the effi oplying inclusion criteria, 143 peer-reviewed studies published between January 2019 and April 2025 we nt domains such as healthcare, education, finance, and more. However, commercial LLM platforms face work difficulty. However, current professional models in this industry suffer from insufficient generality nplex information dynamics arising from the growing use of generative AI tools. Despite their significant rovement loop that has historically powered the evolution of traditional Web search. Web search can co ling the role that such technologies can play in taking a holistic view of the user's multiple goals, comple lyanced analytics, and simulation models, enabling GenAl agents to provide tailored, context-aware, and I technical investigations—to centre human values in the development and evaluation of LLM-based cha on toward the physical world. The key components and technological pathways of embodied intelligenc ed through a PRISMA-guided search using the Scopus database, with inclusion criteria focused on English al outputs in real time, the system significantly enhances the safety and reliability of LLM-powered applispaces. Without successful translation of these experiences into tangible value during the implementation egally grounded content analysis. An interdisciplinary expert workshop with twelve participants from leg ies of trust in LLMs. Currently, oversimplified, one-directional approaches have largely overlooked the n onal processes involved in the design, development, and maintenance of web systems. This chapter exp ure, reflecting the intangible benefits that ecosystems provide. Social media texts from the Lushan Scen Drug Administration has cleared more than 770 AI medical devices that focus on radiology, primarily be -particularly regarding implementation barriers, resource constraints, and emerging demands for respor ances governance transparency. Through simulations based on historical KlimaDAO data, the system ach re typically fictional, immersive, multi-user environments shaped by social, cultural, and speculative narr tly systematized. This highlights the need for a comprehensive review that considers spatial, sectoral, ar eval-Augmented Generation (RAG) enhances LLMs by retrieving relevant information from an external k n. Consequently, leveraging the capabilities of LLMs to effectively enhance the performance of smart co biodiversity as a whole. With large language model (LLM) chatbots becoming increasingly integrated in nd Swedish. While Copilot uses mainly professional news media, provides quick access to synthesized in nts within expansive software ecosystems. We examine the challenges and opportunities arising from the ndividual agents to address complex problems and has reshaped the Web ecosystem. Numerous large la Bengali cultural dialects of Hindu and Muslim majority. We evaluated widely used Web-enabled models, enges for understanding online interactions. The SocialLLM 2025 workshop builds on the foundation laic Ilong with allowing the prediction of future operations. Artificial intelligence (AI) has been instrumental i s from the Philippines, Taiwan, and India - regions in the Indo-Pacific with vibrant democracies, high dig cal thinking, logical thinking, AI thinking, engineering thinking, and programming training are integrated ervices of libraries is analyzed to promote the transformation of knowledge services to intelligent and co per of challenges such as inefficient literature searches, the processing of massive amounts of data, repe

1 to economic growth and to airspace security. By integrating unmanned aerial vehicles, fifth-generation e existing research predominantly focuses on isolated applications of intelligent technologies, systemati em as an investment in the public good. Results: We propose that investment in HDUs is essential for ou tools such as Power BI, SPSS, and Excel, this study conducted a visual analysis of core authors, research f gled resource relations and interactions between humans and AI entities. Thus, the purpose of this pape pjection, near-eye displays, and others. However, these fields urgently require display devices with high it systems, where disruptions in one area propagate through interconnected decision nodes and resolut ep learning and large language models, to uncover IoT security vulnerabilities based on network traffic d ne language industry. LLMs have larger context windows than NMT systems and allow for translations to 1 AI can perform our roles. To achieve this, we utilized commercially available AIs (e.g., ChatGPT 4) to pe . Despite significant progress in AI-driven supply chain management, challenges remain in effectively alig n to raising awareness of environmental challenges faced by the Mar Menor lagoon by blending children green transitions, and boosting global competitiveness. TÜBİTAK plays a central role in supporting artific into blockchains. Then, we discuss emerging solutions that demonstrate the effectiveness of GAI in additional blockchains. ace with AI advancements. This study aims to synthesize a multidisciplinary framework for trustworthy. everage interaction techniques to extend capabilities and facilitate knowledge updates. As these models ing the integration of ethical and responsible AI practices. We conducted an extensive systematic literat single-cell level. These insights, coupled with artificial intelligence-driven in silico design, are propelling le practitioners in designing the agents considering challenges of goal-seeking (including generating inst ulation of AI; presents potential uses of AI in medical product development, clinical research, and clinical ias seen remarkable breakthroughs, with applications spanning various industries, including technology, as pivotal components, holding immense potential to revolutionize EVs in smart city initiatives. General ety and dramatically change personal life. However, it is not clear how this technology, with its significan a data and insights-driven design challenge and communicate product and solution design ideas clearly ip education approaches. A cohort of 105 microentrepreneurs engaged in a structured training program oject development, thereby optimizing project outcomes through intelligent automation. Particular emp environmental footprints of AI remain underappreciated and inadequately acknowledged. This is signific ary brings together contributions from nine experts working in the intersection of learning and technologically lized LLMs, notwithstanding their novelty, and explore the appropriate respective roles of device provid this paper presents a Collaborative Safe AI Framework (CSAIF) for building safe AI systems through robu truction industry and has rapidly developed into a new research branch of project management. Howev etect and label a piece of information as a rumour. In this paper, we present a novel approach for realtir ty of cloud-native ecosystems introduces significant challenges, particularly in the form of misconfigural ous hardware technology has overcome the bottlenecks in computational power and energy efficiency, in text, images to code, speech, and video. Two critical pillars of the GenAI technology are large languag oviding a more interactive, efficient, and personalized user experience. Unlike traditional studies that fc ice (AI) and Machine Learning (ML). This survey provides a systematic and forward-looking review of AIume of simulation output to inform decision making across a building's life cycle for energy efficiency, d op increasingly sophisticated LLMs. This competition has in turn nurtured a vibrant ecosystem, inspiring

ndle complex natural language tasks and show amazing levels of intelligence. As a new stage in the deve wever, integrating these tools into resource-constrained settings such as Nigeria presents significant chat Language Models (LLMs) are elevating content creation, customer experience, and campaign manager comprising multiple sub-factors. These dimensions are interwoven, interdependent, and mutually influe olds transformative potential, facilitating personalized learning path recommendations, automated quest In our proposed framework, patient data from real-time sensors, wearables, and electronic health reconcolchains. We envision AI-COMPILER, an LLM-driven, domain-specific framework that automates co-concolchains.

ations and virtual reality (VR) for immersive clinical training, aiming to standardize educational outcome: ents in artificial intelligence, big data analytics, and digital services. However, despite their potential, it re sing convolutional neural networks to analyze images and recurrent neural networks to process sequen nference framework llama.cpp struggle to leverage the full potential of the RISC-V Vector Extension (RV es have emerged as crucial tools to ensure that Al-driven network operations are interpretable and align Al frameworks, they enhance operational efficiency, decision-making, and cross-border IT collaboration e in this ecosystem by offering advanced capabilities in analyzing complex health data, understanding nu eavily on these Android APIs too. These challenges necessitate continuous updates and compatibility cha edge while maintaining data locality and compliance with privacy regulations. Key challenges - such as c · Large Language Model (LLM) agents, establishing standard message envelopes, semantic payload, ager on and text extraction, and multimodal LLMs for product link retrieval. Unified within an interactive use d secure coordination among heterogeneous agents. This survey offers a comprehensive examination of es. The study compares outputs from three prominent sovereign LLMs-OpenAl's GPT-40 (United States), terns in training data rather than through conscious reasoning, they can be designed to support importa , inherently, a LangSec problem. We provide anecdotal evidence from the San Francisco startup ecosyst ion, and threat intelligence. However, optimizing NIDS for real-time detection in dynamic, resource-limit ed digital technologies, including Internet of Things (IoT) and Artificial Intelligence (AI), can manage weigl false-positive rates and an inability to detect dynamic vulnerabilities. This paper introduces SmartLLM, a PI traffic and addressing emerging threats. However, the effectiveness of ML-based security models is lii ie field of ecology and geosciences. This paper systematically reviews and explores the potential future (ma, cataract, and diabetic retinopathy through a systematic scoping review approach. We conducted th thereby resulted in delayed resolutions, cognitive overload, and made them deliver inconsistent custor iate role for the country in promoting the governance of cyberspace. Design/methodology/approach: By ers their applications and struggle to consistently generate desired outputs. To identify how complement ig this process, Turkey's AI development capacity is increasing, and its competitiveness is being strength. ovation, data as a production factor and emerging productive forces are reshaping the requirements an ime theory, auction theory, and contract theory. However, the evolving landscape of telecom networks, ea integrated networks (SAGSINs), which improve coverage for high-throughput applications such as Ear roved Dual Population Genetic Algorithm; Integrating CNNs and Transformers for Mid-price Prediction in "Seeking the Treasure of Knowledge-Library and Preservation of Modern Civilization focuses on two the ng the transformative potential of technologies like large language models (LLMs) and generative AI in ϵ lability. This paper explores the limitations of these methods and suggests incorporating advanced Deer t are imperative for elaborating strategic planning. In this perspective, the deployment of the emerging for OMOP conversion, smaller clinical trials and studies frequently lack such support, leaving valuable re rofluidic Biochips: Unbalanced Split-Error Correction with SIMOP; social Evolution of Published Text and d sparking foundation for large-scale production of food items with minimal time, talent, and treasure. I horised access and change. The authors emphasize the crucial need of strong data protection regulation existing risk frameworks to meet a new set of challenges from GenAI enhanced cyber threats. This article rope due to various limitations, including in particular language coverage gaps. In response, the Europea but also provides a Chinese innovative pathway for global AI development. Firstly, through low-cost trai , and application demonstration, DeepSeek has opened up a disruptive innovation path and improved tl ovative framework designed to optimize human-in-the-loop processes in smart manufacturing. The prol plex multidisciplinary coupling effects, and dynamic performance prediction requirements, rendering tria

ompared to traditional methods. Beyond drug discovery, GenAI contributes to protein folding prediction nearly every corner of the healthcare ecosystem. In Large Language Models (LLMs) for Healthcare, Jere ence. This review examines CVD diagnostics using innovative technologies such as digital cardiovascular evolve over time and to define a forward-looking research agenda. Drawing on empirical insights from 1 uality, domain-specific training data or evaluate LLM performance across the discipline. Here we introdu erything (WI 3.0, since 2018). For each phase, we examine key advancements, challenges, and future di ations (2014-June 2025) was retrieved from the Web of Science Core Collection, filtered by the Busines per explores how generative artificial intelligence (AI) models—such as GANs, VAEs, and transformers investigates the effectiveness of open-source, lightweight large language models (LLMs) fine-tuned usin iciency and reliability of annotation workflows across various fields. Despite the growing interest in this re analyzed. This review shows that AI-driven controllers—especially deep-reinforcement-learning agen several limitations, including data privacy concerns, context size restrictions, lack of parameter configurations. y, adaptability, complex problem-solving capabilities, and collaborative decision-making abilities, making impact on the digital ecosystem, these dynamics remain largely uncharted and poorly understood. We ontinuously improve their ranking models by collecting large-scale, fine-grained user feedback (e.g., clicl x contexts, and constraints over time. We developed a technology probe of a personalized context-awa 1 human-centric solutions. By pairing LLM agents with retrieval agents and task-specific agents, the MAS atbots within a high school environmental science curriculum. Representing multiple perspectives and expression of the school environmental science curriculum. e are systematically investigated through 5 focused dimensions: A task-oriented multimodal active perc -language academic literature on platform-enabled digitalization in the built environment. Studies were cations. This approach supports the responsible deployment of generative artificial intelligence (AI) tech on phase, co-creation efforts may revert to mere participatory practices in which citizen involvement is zal, technical, and social science backgrounds explored prompting strategies for LLM-assisted auditing. T nany relationships between trustor (user) contextual factors (e.g. ideology, perceptions) and trustee (LLI lores the integration of generative AI in Web Engineering, with a focus on current applications, architect ic Area, known for its rich cultural ecosystem services, were analyzed. The methodology involved adapt ased on deep learning. However, algorithm development and validation remain challenging. Limitations nsible AI use. This study presents an analysis of AI adoption in SMEs by integrating the technology—organ nieved a 97% alignment with past decisions, a projected 40% increase in participation, and a 35% improv atives. Through several research projects, the team investigate the divergence between DTs and Metav nd socio-economic characteristics of regions, as well as interdisciplinary approaches to sustainable devel mowledge base and incorporating it into the LLM's generation process. This approach improves factual a ntract vulnerability detection remains a critical challenge. In this paper, we propose Agent4Vul, a novel 1 to daily life for information dissemination and education purposes, understanding their inherent biases formation, and exhibits source transparency, it frequently creates misinformation and misattributes nev nis human-centered paradigm, including ethical considerations, fairness, and the intricate interplay betw anguage models and domain-specific foundation models underpin various applications, linking end-user including ChatGPT, Gemini, and Microsoft Copilot, using a curated data set to analyze their handling of by SocialNLP, expanding the scope to explore the capabilities and implications of LLMs in social media in enhancing the functionalities of DT. This survey paper explores recent developments in advanced AI a ital engagement, and recent experiences with election-related misinformation - it highlights the risks of into Python language course teaching in a step-by-step and progressive manner, forming a robust teach ollaborative paradigms. Understanding the interdisciplinary nature of Agents will help library science, in titive experimental tasks, and barriers to collaborative innovation. Agents, empowered by LLMs, offer a

communication technologies, and artificial intelligence, LAIN enables real-time monitoring and provide c evaluations of the synergistic effects of technological integration on maritime ecosystems, policy com ar nation's healthcare data ecosystem. This investment will address the increased need for healthcare d€ unding, research topics, author institutions, discipline areas, and related indicators in the literature. The r is to extend our metatheoretical understanding of resource integration and value cocreation by analyz light efficiency and good directivity. The light extraction efficiency and beam shaping of Micro-LEDs have ion workflows. The system integrates advanced natural language processing (NLP) for incident classification ata directly without manual feature selection. The platform correctly identifies vulnerable and secure lo be adapted to various reception situations. For instance, a text can be simultaneously translated and st rform each step of the research process, culminating in an Al-written manuscript. We attempted to inte gning academic research with industry demands, resulting in suboptimal resource utilization and missed n's art with conversational artificial intelligence. We built an interactive narrative visualization where use ial intelligence, quantum technolo gies, and aerospace advancements through national infrastructure, h ressing various challenges of blockchain, such as detecting unknown blockchain attacks and smart contra Al in healthcare, focusing on transparency, accountability, fairness, sustainability, and global collaboration grow more complex, understanding their internal workings becomes increasingly challenging, posing significantly and significantly are significantly grown as a significant of the signif ture review using the Web of Science Core Collection. Searches encompassed English-language articles r the development of the first synthetic plants. By integrating reductionist and systems approaches, resea rumental goals and plans), such as hallucinations inherent in foundation models, explainability of reasor I care; and presents concepts that merit consideration as the regulatory system adapts to Al's unique ch healthcare, and education. Efforts to address Alś impact on society are evident in the development of e tive AI and LLM integration prove influential in optimizing EV functionalities, enhancing security, and for ntly distinct features from past AI technologies, has transformative potential or how researchers in infor (LO 1); to understand and apply the design thinking process for data science and Al-enabled digital pr , with outcomes assessed across multiple entrepreneurial competency domains. Quantitative analysis u phasis is placed on the adaptability of these agents to Agile methodologies and their transformative imp ant, particularly in this era of climate emergency and ongoing threats to planetary energy and water sur ogy and presents critical reflections on the opportunities, challenges, and implications related to GenAl t ers and regulators within the ecosystem of technological oversight. © 2025 Elsevier B.V., All rights reser ust data lifecycle management and ecosystem collaboration. This paper analyzes governance principles er, few works were done to map the global study in this field, easily causing a neglect in new technologi ne rumour detection in news feeds using a combination of RoBERTa and Elastic Weight Consolidation (E tions that can compromise both security and performance. This study explores the potential of Large Lar and has been widely adopted in cloud and edge computing domains. However, challenges such as the c e models (LLMs) and vector data. In particular, LLMs are a category of genAI models that emphasize on ocus on single-mode interactions, this research examines the role of multimodal technologies in transfor enabled methodologies—including evolutionary algorithms, Bayesian optimization, reinforcement learn emand flexibility, climate resilience, and occupant comfort and health. However, significant challenges r new open-source models such as DeepSeek, and motivating application developers to harness state-of-

lopment of libraries, smart libraries integrate advanced technologies such as the Internet of Things, big llenges, including inadequate infrastructure, digital inequities, and teacher readiness. Despite the growinent. This survey addresses where these technologies overlap to power contemporary marketing innovantial, collectively shaping the ecosystem for the deployment of large models in education. The paper fustion-answering systems, knowledge retrieval, generation of teaching resources, and adaptive evaluation rds (EHRs) are collected and securely stored across decentralized personal web servers using Solid PoDs. npilation and optimization of heterogeneous applications in smart cities, smart transportation, and real-

s, enhance student engagement, and improve readiness for complex clinical scenarios. However, the rar emains unclear whether they provide the necessary tools to fully support efficient and user-friendly expl tial data, Al systems improve diagnostic accuracy and minimize the risk of human error. Additionally, de-V), leading to suboptimal performance. This study has achieved efficient LLM deployment in resource-co ed with human expectations, thus addressing inherent reliability issues like model degradation and risks . Their impact spans finance, healthcare, supply chain management, and enterprise IT services, where th Janced health contexts, and generating tailored health recommendations instantaneously. This study pr ecks to maintain apps as well as TPL's compatibility across Android's diverse ecosystem. Prior research p ommunication overhead, security vulnerabilities, and the adaptability of large language models (LLMs) t it roles, session management, and interaction patterns. IEEE P3428 (LLM Agents for Education) specifies r interface, INvadeAI enables seamless product discovery and purchasing, creating a potential new rever the security and privacy landscape in IoA systems. We begin by outlining the IoA architecture and its di DeepSeek-R1 (China), and Mistral (European Union), across 12 high-profile territorial conflicts. Statistical int psychological processes. Prospection—the ability to envision and plan for future outcomes—represe em to illustrate how companies are currently using, deploying, and securing AI systems with these featu ted contexts remains a significant challenge. This survey paper provides a comprehensive overview of m ht and enhance full-lifecycle health in individuals with obesity under simulated high-altitude hypoxic cor novel approach leveraging fine-tuned LLaMA 3.1 models with Retrieval-Augmented Generation (RAG) t mited by the scarcity of realistic, up-to-date datasets and the rapid obsolescence of static training data in developments in LiDAR hardware and algorithms, as well as their applications in ecology and geoscience is review based on the Preferred Reporting Items for Systematic Reviews and Meta-Analyses extended t ner experiences. This study explores the paradigm shift that's occurring in contact service centers through y dissecting the information governance dilemma triggered by GAI content, this paper employs the PMC tors mitigate these challenges, we conducted an embedded case study of complementors in the OpenAl ened. HAVELSAN addresses public and private sector demands by developing national products, aiming d demands for cultivating high-level interdisciplinary engineering talents. This paper draws on the joint of characterized by increasing abstraction, emerging use cases, and novel value creation opportunities, ca th observation and intelligent transportation. With the increasing demand for communication and com n High-Frequency Trading; hierarchical Recurrent Network for Active Stereo Matching; Research on Muli mes "structural optimization and long-term preservation of library resource construction laying the four inhancing instructional efficiency and effectiveness. Through case studies, it illustrates how these technologies) Neural Networks as more effective solutions for malware detection in Android environments. Addition chatbots' technology in the area of business processes (BP) offers large capabilities for decision-making esearch data siloed. Objective: This study aims to develop and validate a user-friendly tool that leverage the Emergence of Artificial Intelligence Through Large Language Models and the Problem of Toxicity an The penetration and pervasiveness of the Internet of Things (IoT) sensors and actuators are considered t s, focusing on the consequences of AI and ML breakthroughs for privacy and individual rights. This book explores these complex and converging factors, providing a roadmap to address GenAl's significant im in Commission's Directorate-General for Translation (DGT), in the context of its partnership with the Directorate ning and inference, break the monopolistic barriers of high-end computing power and lower research ar ne research and application level of AI in China and its international influence. In order to further promo olem addressed involves the challenge of effectively integrating human operators with advanced autom

s, genomics research, disease diagnosis and biomarker identification, enhancing our understanding of d my Harper shines a spotlight on this transformative potential. With clarity and practicality, he explores twins, which involve the collection of data from wearable IoT devices (electrocardiography (ECG), photo five European countries, we investigate how key meta-characteristics and attributes of PDEs manifest, s ce a unified pipeline to address this gap. It comprises EnvInstruct, a multi-agent system for prompt gene rections from the perspectives of both intelligent machines and human experts, highlighting significant s s Economics category. Analytical techniques employed include Bibliometrix in R, VOSviewer, and science can serve as transformative tools for wildfire prediction and simulation. These models offer superior cap ig parameter-efficient techniques, including Quantized Low-Rank Adaptation (QLoRA), for smart contrac area, a systematic understanding of the role and capabilities of AI agents in annotation is still underexplo ts—deliver median energy savings of 18–35% for HVAC and other major loads, consistently outperform rability, and limited evaluation capabilities. These shortcomings hinder their effectiveness, particularly in them unable to meet the industry's demands and restricting the high-quality development of the fores propose a stochastic model to characterize the generation, indexing, and dissemination of information i ks, dwell time) at the document level. In contrast, generative AI search operates through a much longer re LLM chatbot and deployed it with 14 participants for 2-4 weeks for their 2024 New Year's resolutions can efficiently process traffic data, interpret user queries, and interact with simulations or optimization xpertise, the chatbots help students refine their causal models of climate change's impact on local marir eption framework is first proposed, combining embodied interaction and active navigation to establish grouped into six thematic domains, i.e., artificial intelligence in construction, digital twin integration, lif inologies by ensuring adherence to ethical standards and regulatory frameworks while simultaneously p superficial. Since Large Language Models (LLMs) have the potential to streamline user feedback, this stu hematic analysis of the sessions identified key challenges and design considerations, including prompt e Ms) systemic elements (e.g. scientists, tool's features). In this work, we introduce a bowtie model for ho tural enhancements, tooling implications, ethical concerns, and emerging research directions. It critically ing the model using few-shot learning to classify cultural ecosystem services and associated sentiments. include sparse expert-annotated data and regulatory hurdles. Clinical implementation and the adaptatic ization-environment (TOE) framework with selected attributes from the diffusion of innovations (DOI) rement in governance clarity. To support quantitative analysis in tokenomics, we developed a tailored Co erses through the lens of their purpose, data structure, immersion, and interactivity, while highlighting a opment. This study presents a scoping review of 198 peer-reviewed publications published between 201 accuracy and enables dynamic knowledge updates, making LLMs particularly suitable for educational ap framework utilizing multimodal LLM agents to enhance smart contract vulnerability detection. Specifical is vital. In this study, we tested 10 popular Western LLM chatbots using simple prompts to assess how the ws sources. The analysis highlights variations in Copilot's sourcing behavior, showing a strong reliance or reen technical and human factors. By recognizing humans at the heart of the software lifecycle - spannir s to the connected Web. This tutorial presents federated intelligence as a strategy to develop a Web-ba culturally specific terms and approaches to mitigating social biases. By addressing bias in language techr research. This year's workshop at TheWebConf 2025 focuses on three pivotal themes: leveraging LLMs f Igorithms tailored for DT in building settings. Moreover, a wide spectrum of AI techniques designed to a Al-driven content and the innovative measures used to address its spread. The commentary advocates t ling ecosystem. Under the innovative teaching mode, students have gained sufficient practical training t formation science and other related disciplines to better design and apply AI technologies and achieve the promising solution to these bottlenecks by enabling intelligent automation and adaptive collaboration a

s services for urban traffic, agriculture, and disaster management. This integration optimizes resource al patibility, and contributions to global carbon emission governance remain under-explored. Leveraging b alivery and public health data. Discussion: HDUs can meet the current and future needs of healthcare de aim of the study is to analyze the current status of ChatGPT research in higher education applications a ing different human–AI resource relations in service ecosystems. Design/methodology/approach: The c e become pressing challenges for researchers and industry. Light extraction technologies, such as Microtion, rule-based expert systems for actionable recommendations, and multi-objective optimization technique. T devices just by raw network traffic! Experimental results show that the proposed study detects vulner ylistically raised or lowered, and its literary form can be adapted in the target language. LLMs can also b rvene as little as possible in the AI-led idea generation, empirical testing, analysis, and reporting. This all opportunities for commercialization. This study seeks to address these issues by proposing an Al-driven ers can learn about the ecosystem while exploring related drawings created by children and engaging in the uman capital development, and international cooperation. High lights include the development of Türki act vulnerabilities, designing key secret sharing schemes, and enhancing privacy. Moreover, we present on. It moves beyond high-level ethical discussions to provide actionable strategies for implementing trus gnificant issues for transparency, interpretability, and explainability. This paper proposes a novel approa published between January 2019 and July 2023 using keywords related to AI, machine learning, natural k archers are not only reimagining plants as sources of food, fiber, and fuel but also as 'environmental the ing process, complex accountability, etc. To address this issue, we have performed a systematic literatu allenges. Observations: The FDA has authorized almost 1000 Al-enabled medical devices and has receive thical guidelines and regulations. Countries and regions around the world are working on refining legal f tifying data privacy. This chapter delves into battery technology, battery capacities, energy storage, char mation systems should react to it. In this paper, we consider the evolving and emerging trends of AI in c oduct ecosystem innovation (LO 2); to deploy a structured methodology for adapting a data science tilizing Hierarchical Linear Modeling and Bayesian Analysis revealed significant enhancements in busines act on decision-making, problem-solving, and collaboration dynamics. The research leverages the Cogni pplies. The vocabulary attached to AI often aims to mimic positive human capacities such as "warmness" echnologies in the context of education. In the commentary, it is acknowledged that GenAl's capabilitie

drawn from the U.S. Blueprint for an AI Bill of Rights and the EU AI Act, emphasizing transparency, traced call trends in the construction industry. Design/methodology/approach — This research conducts a holist WC), a continual learning algorithm. Our method integrates data collected from news feeds via the 'new nguage Models (LLMs) in identifying Kubernetes misconfigurations. We introduce a comprehensive taxo complexity of heterogeneous hardware co-design, fragmentation of software ecosystems, and resource generating new text contents. On the other hand, there is also an upsurge of dense, high-dimensional, k ming library services and increasing user engagement. The study highlights its unique contributions to the ing, deep learning, and large language models—as applied to key design and measurement stages: circuremain to address, including Al-ready data, selecting fit-for-purpose Al models or tools, BEM workforce to the-art LLMs for real-world deployments. However, the extensive memory and computational requirem

data and artificial intelligence, aiming to provide users with more intelligent and personalized services. I ng research on AI adoption, limited studies focus on developing regions, leaving a critical gap in understations, resolving for privacy, scalability, and ethics. Drawing on empirical case studies and current advance ther analyzes the complex relationship among these influencing factors. Successful implementation reconfirmmeworks. Its strengths, such as efficiency, precision, personalization, and interactivity, streamline the connect the Solid PoDs via blockchain that ensures that data remains immutable and accessible on time analytics. Tackling multi-objective goals - power efficiency, reliability, and dynamic reconfiguration

oid adoption of AI introduces critical challenges, including widening resource disparities between urban a loitation. This paper presents a preliminary vision aimed at identifying usability challenges within datasp ep learning algorithms targets patient-oriented drug administration by predicting therapeutic responses onstrained environments by optimizing critical operators in the llama.cpp framework using RVV instructi s associated with large language models (LLMs), including hallucinations. Complementing these advance ney act as virtual team members, automating infrastructure management, optimizing workflows, and en ovides insights into how machine learning, deep learning algorithms, and MLLM can work together to fa rimarily focused on detecting compatibility issues induced by native Android APIs in Android apps falling to dynamic network conditions - are examined. The study also highlights the role of FLLMs in optimizing a modular agent architecture and lifecycle tailored to adaptive learning environments. It standardizes a nue stream for computationally intensive AI systems. We applied a fine-tuned YOLOv8 model trained on stinct vulnerabilities compared to traditional networks, focusing on four critical aspects: identity authen ally significant differences in each model's sentiment distribution and geopolitical framing are identified nts a transdiagnostic process altered across various mental health conditions that could be effectively to res. Based on these observations and our analysis of current practices, we identify three concrete resea nodern Al-driven methodologies for enhancing NIDS, focusing on transformer-based techniques, graph-b iditions (HC). The findings suggest that integrating simulated HC with digital health technologies offers a o enhance the accuracy and efficiency of smart contract auditing. By integrating domain-specific knowle n the face of evolving attack methodologies. To address these challenges, we present an approach that s. We first pointed out that, driven largely by the rapid advancements of autonomous driving technolog :o characterize the application of large language models in the field of chronic ocular diseases. The study gh implementing Gen AI. Real-time intent recognition, contextual response generation, and personalized index model and combines it with the MatLab tool to quantitatively evaluate and analyze the texts of s I platform ecosystem. We identified four value co-creation mechanisms of embedded and stand-alone c for an 18.79% resource saving in enterprise content management and a 34.46% reduction in information educational achievements between Beijing University of Posts and Telecommunications and Queen Mar Ills for more adaptive and efficient approaches. We propose leveraging LLMs to automate or semi-auton puting resources, cloud and edge collaboration is increasingly being used to ensure low latency and high tidimensional Evaluation Technology of Teachers' Digital Literacy for LLM as a Judge; research on the Ac ndation of modern civilization knowledge ecology and "digital transformation and knowledge production ologies can provide actionable insights and generate new instructional materials, thereby advancing proally, the integration of Large Language Models (LLMs) offers new possibilities for understanding comple activities and yields several benefits. In fact, the ability of these conversational tools to handle and inter s large language models to automate the OMOP conversion process for clinical trials, electronic health r d Bias; HITgram: A Platform for Experimenting with n-Gram Language Models; Overlapping Community the first and foremost aspect of advanced and adaptive agriculture. Further, the device ecosystem for au emphasizes the multifarious aspect of data protection, which goes beyond technological solutions to in pact on global IT management. We advocate the responsible adoption of GenAI and importance of build ectorate-General for Communications Networks, Content and Technology (DG CONNECT) under the Digi nd development thresholds. Secondly, through full-stack and comprehensive open-source strategies, support te the construction of China's Al open source innovation ecosystem and promote the continuous innovation ation technologies to reduce errors and increase process adaptability. The framework employs Large La

iseases and health conditions, fostering the development of personalized medicine. In agribusiness, Gen how these advanced artificial intelligence (AI) tools can reshape clinical workflows, optimize administrat plethysmography (PPG), and mechanocardiography), clinical records, laboratory biomarkers, and genet hift, and co-evolve in practice. Leveraging a recent multi-generational model as an analytical lens, we as eration; ChatEnv, a balanced 100-million-token instruction dataset spanning five core themes (climate ch societal impacts. To advance WI research, we propose a large language model-based learning frameworl e mapping tools such as thematic mapping, trend topic analysis, co-citation networks, and co-occurrence pabilities in managing uncertainty, integrating multimodal inputs, and generating realistic, scalable wildf t vulnerability detection. We introduce the EVuLLM dataset to address the scarcity of diverse evaluation ored. This paper seeks to fill that gap by providing a comprehensive review of how LLM-driven agents su ing rule-based and model-predictive baselines. The evidence further reveals a rapid diversification of mε n scenarios involving sensitive information, large-scale document analysis, or the need for customized or try and grassland industry. Therefore, it is imperative for the forest and grassland industry to deeply into n response to new topics. This scenario particularly challenges current LLMs, which often rely on real-tir search pipeline-spanning query decomposition, document retrieval, and answer generation-yet typically . We observed users achieve a high adoption rate of actions and greater success in the pursuit of goals i services. This approach aims to improve scalability, accessibility, and responsiveness in managing conge ne ecosystems, communities and individuals. We first perform an empirical investigation leveraging part a vision-language-behavior collaborative environmental sensing system; Dynamic task decomposition ar ecycle cost management, BIM-GIS for underground utilities, energy systems and public administration, I reserving a high-quality user experience. This paper proposes a technological framework designed to mi dy examines whether LLMs can enhance citizen engagement in the co-creation of value for urban green ingineering, model interpretability, legal alignment, and user empowerment. Findings highlight the pote listically conceptualizing and formulating trust in LLMs, with a core component comprehensively explori , analyzes how generative AI reshapes paradigms within the field and offers a roadmap for its responsib Prompts were specifically designed to optimize model performance. The validation process compared t on of the radiologic community is also lagging behind. Additionally, technical barriers exist regarding data theory to examine adoption dynamics through a dual structural and perceptual lens. Empirical insights fi oT reasoning strategy, effectively reducing information asymmetry and generating structured, trustwort areas of convergence driven by emerging technologies in Artificial Intelligence (AI) and Extended Reality 10 and March 2025, focusing on applied cases of AI deployment in local contexts. Special attention is giv plications. In this paper, we comprehensively review existing research that integrates RAG into educatio lly, we design two LLM-based agents: Commentator and Vectorizer. The Commentator agent generates ney portray bees and wasps. Butterflies, moths, flies, and mosquitoes were also included for comparisor 1 English-language sources, particularly those from the UK and US, across different prompting languages ng professional engineers, end users, and end user developers - we emphasize the importance of inclusive sed collective intelligence system by leveraging existing foundations and applications. In this framework nologies that underpin the modern Web, our study contributes to advancing human-centered NLP and LI or mental health support, enhancing emotion detection in textual interactions, and improving misinforn ddress the challenges posed by DT in buildings are categorized and reviewed, including convolution neu for a balanced approach that incorporates technological solutions, regulatory frameworks, and digital lit hrough graphic visualization programming, large model assisted programming, Python program writing he core mission of connecting humans and knowledge in a more efficient, accurate and humane way. It across research workflows. Beyond basic task assistance, they play a pivotal role in facilitating knowledg

location and enhances public safety. However, the rapid development of LAIN results in a vast array of c ibliometric analysis, this study systematically examines 488 publications from the Web of Science (WoS) livery and public health surveillance. Their structure and capabilities will underpin their success to supp nd to explore the hot issues surrounding ChatGPT empowerment in higher education. The study points (onceptual paper adapts a novel framework from postphenomenology, specifically cyborg intentionality. -LED sidewall repair, surface random roughening, and surface photonic crystal technology, have been de niques for resource allocation. By modeling incident interactions as a dynamic network, we apply netwo ability with great accuracy by using pre-trained deep learning and LLM models, which facilitates direct e e useful for translating neologisms and other playful or creative textual elements. Despite the advantag lowed us to assess the limits of Als in a behavioral research context and propose guidelines for behavior framework to optimize collaboration within this ecosystem. Employing system design frameworks, arch voice conversations with a chatbot powered by generative AI. To validate our approach, we conducted a ye's national supercomputer, a Turkish Large Language Model, and breakthroughs in quantum sens ing a case study to demonstrate that GAI, specifically the generative diffusion model, can be employed to o stworthy AI in clinical contexts. Methods: A structured literature review was conducted using PubMed, S ich to interpretability by shifting the focus to understanding the model's functionality within specific cor anguage processing, and physician communication. Of the 247 articles screened, 13 met the inclusion cr rmostats' capable of mitigating the impacts of a changing climate. © 2025 Elsevier B.V., All rights reserve re review to understand the state-of-the-art foundation model-based agents and the broader ecosyster ed hundreds of regulatory submissions for drugs that used AI in their discovery and development. Healtl frameworks for AI. While research and technology advancements are rapid, the commercialization of AI rging infrastructure optimization, autonomous driving, educational outreach, energy management, and order to examine its present and predict its future impacts. Many existing papers on GenAl are either too and AI-enabled digital product ecosystem in diverse markets (LO 3); and to create a digital product m ss model development, market analysis capabilities, and strategic decision-making among LLM intervent Sim ecosystem, a platform designed to simulate real-world software engineering challenges, such as alig and "care." However, these attempts to humanize AI and digital technology come with an anthropocer s can enhance some teaching and learning practices, such as learning design, regulation of learning, auto

ability, explainability, and auditability. Existing industry practices are reviewed to identify current streng ic literature review mainly based on bibliometrics approaches. A total of 2, 986 bibliographic records fro vs-please' scraper and augments it using LLaMa 3, a Large Language Model based data augmentation ternomy of common misconfiguration types, offering a structured framework to better understand and carallocation optimization remain significant. This paper provides an in-depth analysis of the divergence trabillion-scale vector data from deep learning models that embed complex data, e.g., text, multimedia, grahe field of library science, particularly in improving knowledge dissemination, enhancing user-centered suit topology and structure synthesis, circuit optimization, layout automation, and post-silicon calibration training, standard benchmark datasets and methods. This perspective article describes how AI is transforments of large models present serious obstacles for small-medium organizations, leading to significant scients.

This study comprehensively uses a variety of research methods, and strives to comprehensively and deel anding how educators perceive and adopt these technologies. Methods: We adopted a hybrid approach tees in multimodal and reinforcement learning, the book targets hybrid frameworks as well as future path quires balancing technical capabilities, pedagogical needs, and external environments while continuously he acquisition and utilization of educational resources, ultimately fostering improved pedagogical outco ly to authenticated stakeholders via robust access control matrices. The core of the framework uses larger AI-COMPILER aims to transform how IoT and edge infrastructures are developed, deployed, and main

and rural institutions due to over-reliance on technology, risks to data privacy in educational and clinical aces and exploring how human users can better interact with them. In particular, we investigate whether of individual patients, enhancing treatment response. Incorporating AI into clinical workflows allows us ons. We first identify performance bottlenecks, such as the f16 vector dot product and layer normalizat ments, Intent-Driven Management (IDM), standardized by 3GPP, enables translation of high-level user i suring 24/7 global system continuity. Despite these benefits, challenges persist in trust management, et icilitate the analysis of physiologic data for real-time monitoring and early warning systems as well as co 3 short in detecting the incompatible APIs associated with TPLs due to the additional layer of abstraction resource allocation, improving cybersecurity, and supporting real-time decision making. Future direction igent components, lifecycle states, and orchestration mechanisms to enable plug-and-play integration o 125 custom product classes-achieving mAP@ 50 of 0.535-alongside the base YOLOv8 model's 64 product tication threats, cross-agent trust issues, embodied security, and privacy risks. We then review existing using a mixed-methods approach that combines sentiment analysis with statistical evaluation (chi-squa argeted through such interventions. We designed "Future Me," an LLM-powered chatbot designed to far rch directions where the LangSec community can contribute to securing both the parsing of LLM output pased models, and hybrid approaches incorporating explainable AI. LLMs, as transformer-based models, novel and safe approach to obesity rehabilitation. By leveraging environmental stimuli, real-time monit edge from ERC standards and employing advanced techniques such as QLoRA for efficient fine-tuning, Sn employs Large Language Models (LLMs) to generate synthetic Web API attack datasets. By leveraging LL y, LiDAR hardware has demonstrated a trend towards diversification and enhanced precision. Types of r / reveals that large language models demonstrate comparable efficacy to experts in disease screening, d d engagement across channels are some novel capabilities introduced by Gen AI by adopting Large Lang even GAI policies around the world. Findings: After analyzing overall policy evaluation results, we identif omplements that mitigate the challenges: (1) utilizing system instructions, (2) providing context data, (3 n access time through digital assistants. The solutions safeguard user data in compliance with internatio y University of London, focusing on the coconstruction and sharing of experimental resources, as well a nate the process of strategic mechanism design, from intent specification to final formulation. This para ly reliable services. This article explores collaborative computing at the network edge and highlights the ademic Rubric for Innovative Talents in Ordinary High Schools Based on Classroom Settings; explaining t n of library resource organization building a moat for modern civilization knowledge services. The attence fessional development, classroom observations, student assessments, and content analysis. The chapte x malware behaviors and patterns. We also discuss Android's security architecture, highlighting key vuln pret textual data reflecting BP executions significantly enriches the DSS ecosystem by extending its perf ecords, and registry data. Methods: We developed a 3-tiered semantic matching system using GPT-3 en Detection Using Dynamic Residual Deep GCN; DeepUIR-Net: Underwater Image Restoration Using Resid itomated and accelerated agriculture processes and practices grows consistently. The robots and drone clude ethical, legislative and societal factors. This book explores into the complexity of data protection i ling resilient, value-driven, globally consistent IT ecosystems able to adapt to the significant challenges a ital Europe programme, aims to leverage its high-quality multilingual data coming from all the European pport customizable and local deployment that benefits various industries. This technological innovation ation and iteration of AI technology, this study analyzes the outstanding problems in China's AI innovatic nguage Models to extract procedural specifications from unstructured sources and convert them into st All proves instrumental in optimizing crop breeding and improving agricultural productivity. It can gener ive tasks, and ultimately create a more responsive, patient-centered model of care. Over the course of t ic markers, as well as their integration with artificial intelligence (AI), including machine learning and det sess its alignment with real-world trajectories, identify overlooked and emerging features, and revise its nange, ecosystems, water resources, soil management, and renewable energy); and EnvBench, a 4998-it k for topic analysis and trend prediction. Moving beyond single-perspective approaches, we emphasize t e clustering. Results indicate an annual growth rate of 53.31%, with China leading in both productivity ar ire scenarios. We adopt a new paradigm that leverages large language models (LLMs) for literature syntle resources and demonstrate that our fine-tuned models achieve up to 94.78% accuracy, surpassing the ipport advanced reasoning strategies, adaptive learning, and collaborative annotation efforts. We analyze ethods: graph-neural-network models now capture spatial interdependencies in dense sensor grids, fede utput. This underscores the need for a tool that combines the power of LLMs with enhanced privacy, fle egrate artificial intelligence (AI) technologies represented by industry large models with forestry and gra ne Retrieval-Augmented Generation (RAG) techniques to overcome their static knowledge limitations. C receives only coarse-grained feedback on the final answer. This introduces a feedback loop disconnect, n the first week, as well as the rapidly evolving user needs over time. We discuss how to best leverage c estion, enhancing road safety, and reducing emissions. We discuss how GenAl-powered MASs can perso icipatory design to explore the values that motivate students and educators to engage with the chatbot: and structured planning are then enabled via world models and task symbolization techniques, ensuring t pased on a combination of literature precedent and domain relevance. Unlike existing reviews focused c itigate the inherent risks associated with the deployment of artificial intelligence (AI) in decision-making ing. Using a survey experiment designed to prompt participation in urban greening initiatives, this study ntial of LLMs to improve annotation workflows and expand audit scale, while underscoring the continue ing trust by tying its two sides, namely the trustor and the trustee, as well as their intricate relationships

the performance of three base models (GLM-4-0520, ERNIE-4.0-8K, and Moonshot-v1-8k) alongside five a availability, large language model explainability, deep learning model generalization, and clinical integr rom sectoral and regional contexts are also incorporated. Ten critical challenges are identified and analy thy recommendations. These results underscore the potential of AI to foster more inclusive and transpar (XR). This study aims to investigate the convergence of DTs and the Metaverse in digital architecture, ex en to the role of AI in monitoring water, forest, and agricultural ecosystems, facilitating the digital trans nal scenarios. We first clarify the definition and workflow of RAG, and following the indexing mechanism comments for the source code, while the Vectorizer agent converts contents into vector representation 1 to evaluate broader societal perceptions. Our results show that bees and butterflies are indeed depicte . Such reliance raises concerns about the homogenization of information and the marginalization of regi vity, human-aligned workflows, and the seamless integration of Al-augmented socio-technical systems. , agents collaboratively enhance their intelligence by acquiring complementary knowledge and making f LM auditing. Through a detailed exploration of bias causes and evaluation methods, our goal is to promo nation detection through active learning. The selected papers illustrate cutting-edge advancements in the ral networks (CNN), recurrent neural networks (RNNs), and generative adversarial networks (GANs), am eracy to safeguard democratic processes and promote informed public participation. The rise of genera and debugging, etc., mastering the Python language and gaining intuitive understanding of engineering | will also enable library science to more accurately integrate the essence of the six major disciplines and e fusion, accelerating breakthroughs in frontier areas, and reshaping traditional research models. This st distributed aircraft and ground equipment that generate large volumes of heterogeneous data in various Core Collection (2000–2024), yielding three pivotal findings: firstly, China dominates the research lands ort data-driven decision-making. Conclusion: Transforming HIEs into HDUs is essential to realizing the vis but that current research in higher education in the era of artificial intelligence mainly focuses on introduced in the current research in higher education in the era of artificial intelligence mainly focuses on introduced in the current research in higher education in the era of artificial intelligence mainly focuses on introduced in the current research in higher education in the era of artificial intelligence mainly focuses on introduced in the current research in higher education in the era of artificial intelligence mainly focuses on introduced in the current research in higher education in the era of artificial intelligence mainly focuses on introduced in the current research in the era of artificial intelligence mainly focuses on introduced in the current research in the era of artificial intelligence mainly focuses on introduced in the current research in the era of artificial intelligence mainly focuses on the current research resear This framework is used to analyze what kinds of human-AI resource relations enable resource integrati eveloped. For beam shaping, there are Micro-LED beam modulation designs based on structures like mic rk-based AI techniques to optimize resource distribution and minimize systemic congestion. A three-mc extraction of vulnerability features from the dataset and therefore helps speed up the identification proc es of Al-based translation processes, some Al critics want literary translation to remain the sole preserve al researchers wanting to utilize AI. We found that the AIs were adept at some parts of the process and nitectural evaluation matrices, and expert surveys, the study evaluates the proposed system's effectiver 3 preliminary evaluation of the prototype during the European Researchers' Night 2024 where we gathe and post-quantum cryptography. TÜBİTAK also mobilizes young talent through TEKNOFEST and Deneyar ptimize blockchain network performance metrics. Experimental results clearly show that, compared to a scopus, and Web of Science. Studies were selected based on relevance to AI ethics, governance, and poli ntexts through interaction techniques. Rather than dissecting the LLM itself, we explore how contextual iteria given their in-depth analysis of AI in healthcare communication, methodological soundness, and re

n. In this paper, we present a pattern catalogue consisting of 18 architectural patterns with analyses of the AI regulation needs to be coordinated across all regulated industries, the US government, and with intencounters persistent barriers. Despite significant progress, ethical debates concerning AIs interaction to predictive maintenance. In particular, LLMs address EV challenges by optimizing routes, speeds, and behalve technical for most information systems researchers or lack the depth needed to appreciate the potent anagement and go-to-market roadmap for tapping new markets (LO 4). Case overview/synopsis: Stones ion participants. Mediation analysis identified increased motivation and self-efficacy as key mechanisms uning technical capabilities with business objectives, managing interdependencies, and maintaining projective gaze and blind spots that bracket out the environmental impacts and footprints of AI and privilege I omated content, feedback, and assessment. Nevertheless, we also highlight its limitations, potential disr

ths and limitations. This paper then introduces an approach that treats data as verifiable digital assets at method the tool of Science core collection database were collected and the tool of CitespaceV, Statistical And chnique. This framework can help in solving numerous problems and as a case study we use it to provide tegorize these issues. Additionally, we conduct an empirical evaluation of state-of-the-art detection too ends of cloud and edge computing within the heterogeneous hardware ecosystem. Additionally, it explosiphs, and tables into vector representations aiming to preserve semantic similarity. Since LLMs operated services, and addressing emerging challenges in digital information management. These findings not only and fault diagnosis. By mapping these intelligent techniques to each phase of the analog and RFIC development may be made and the larger ecosystem focusing on four major AI themes of data, models, compalability concerns. This paper offers a comprehensive review of recent techniques to improve LLM efficients.

ply analyze the innovative ecological construction path of intelligent library enabled by Al large model. It , combining Partial Least Squares Structural Equation Modelling (PLS-SEM) and Artificial Neural Network hs in ethical AI, green algorithms, and additional personalization. © 2025 Elsevier B.V., All rights reserved optimizing the model to ensure its safety and compliance, thereby facilitating widespread adoption of mes. Nonetheless, several challenges remain, such as integrating interdisciplinary knowledge, addressing language models (LLMs) in the CT design process. The LLM enhances the system by interpreting heter tained. We examine critical issues such as generalization to new hardware, human-AI collaborative tuning

data management, and potential erosion of humanistic care in training environments. These challenges er Large Language Models (LLMs) can bridge the gap between raw, machine-oriented datasets and intuit to synthesize vast datasets in real-time, provide clinicians with action items, and advocate for evidence ion, through runtime profiling. These operators are then redesigned with RVV's SIMD capabilities, include ntents into actionable, automated network decisions, enhancing flexibility, efficiency, and resilience. The hical accountability, and legacy system integration. As AI agents take on complex roles, concerns over sa implex decision support mechanisms. In addition, the emergence of clinical decision support systems (CI they introduce as well as the obfuscation used by the TPL developers. In this paper, we propose LibCT t ns include integration with Digital Twin frameworks, Explainable AI (XAI), and blockchain technologies fo f multiple Al-driven agents in an adaptive instructional system. Together, P3394 and P3428 promote mc t classes, enabling detection of products across 89 consumer categories. We integrated BLIP3 for image and emerging defense mechanisms and highlight persistent challenges. Finally, we identify open researc re tests and analysis of variance, ANOVA) on responses to 300 standardized prompts. The findings indica cilitate future-oriented thinking and promote goal pursuit using evidence-based interventions including s and the safe deployment of LLM-powered tools. This work should be read as a call-to-action for the La are effective in analyzing complex network data for better anomaly detection and threat prediction. Gra oring through wearable devices, and intelligent evaluation using large language models (LLMs), this met nartLLM achieves superior performance compared to static analysis tools like Mythril and Slither and zer Ms, researchers can access abundant, customizable, and domain-specific synthetic data that closely sim near-ground LiDAR platforms have been particularly enriched, enabling efficient and high-resolution data liagnostic decision-making, personalized precision treatment recommendation, and accessibility of healt uage Models (LLMs). Organizations can reduce Average Handling Time (AHT), improve First Contact Reso fied one perfect, three excellent, and three good policy types. The study revealed good policy consistent) curating user inputs, and (4) revising AI model outputs. Depending on the complement type, complem nal ISO 27001 and GDPR standards. The proliferation of high-tech products has increased the number of s innovation-driven entrepreneurship education. It introduces a digital-intelligence-powered educationa digm shift introduces both semi-automated and fully-automated design pipelines, raising crucial questio critical role of artificial intelligence (AI) agents in enabling cross-domain collaboration. We present an A o a Computer: Enhancing Student Assessment with Programming and Simulating Execution; research on ling experts responded to the key issues of library resource construction and knowledge organization in r concludes with future research directions, advocating for the integration of AI/ML methodologies with erabilities and attack surfaces. Through this study, we suggest a forward-thinking approach to enhancin ormances with a valuable layer that improves decision-making tasks. In this work, the potential of NLP t nbeddings to transform heterogeneous clinical data to the OMOP Common Data Model. The system pro ual-UNet with Optimized Efficient Channel Attention Network Integration; deepfake Image Detection U: space advancements are fascinating, as they are set to transform the industry. Connected robots, drone n the age of AI and ML. It investigates how massive volumes of personal and sensitive data are utilized t

Union (EU) institutions to contribute to the European ecosystem of LLMs through continued pre-trainir and open-source practice from DeepSeek deserves in-depth discussion and learning. This study summar on ecosystem and the deficiencies of relevant policies, and puts forward suggestions to accelerate the contractions. By integrating these instructions with Extended Reality technologies to assist hum

ate new crop varieties with desired traits by analyzing vast datasets comprising genomic and ecological this book, you will discover new opportunities-learn how LLMs can reduce manual documentation burde ep learning, graph and transformer networks for interpreting multi-dimensional data streams and creati s structure accordingly. In doing so, we theorize PDE evolution as a multi-generational process shaped by em benchmark assessing analysis, reasoning, calculation, and description tasks. Applying this pipeline, w the Connected Intelligence Ecosystem defined by the HIGH5 scheme comprising one goal, two twins, thr nd impact, followed by Vietnam and the United Kingdom. The most prolific affiliations and authors, prim hesis, classification, and knowledge extraction, conducting a systematic review of recent studies applyin performance of larger proprietary models, while significantly reducing computational requirements. Mc ze agent architectures, integration patterns within workflows, and evaluation methods, along with real-v erated-learning pilots address data-privacy constraints, and early integrations of large language models h xibility, and usability. To address these challenges, we present EvidenceBot, a local, Retrieval-Augmente ssland business operations to achieve innovative empowerment. This study aims to explore effective pa Dur findings suggest that the rapid pace of generative AI adoption, combined with increasing user reliance , where user feedback for the final output cannot be effectively mapped back to specific system compor ontext-awareness for AI agent design, and the novel roles that AI could adopt for an ecosystem of service nalize route guidance, support traffic operators and planners with strategic insights, and improve public s. Then, we conceptualize the values that emerge from the empirical investigation by grounding them in he generalizable decision-making abilities of agents; A virtual-to-real migration technology chain is subsi on single technologies or sectors, this work offers a cross-sectoral synthesis, highlighting shared challeng and task execution within the management processes. The Agreement Validation Interface (AVI) function r found that the demo of LLM significantly increases citizens' participation at initial stage and their engage ed importance of human oversight, iterative testing, and cross-disciplinary collaboration. This study offer . We uncover these relationships within the proposed bowtie model and beyond to its sociotechnical ec

prompts. The cultural ecosystem services within the study area were subsequently analyzed based on n ation. Advances in few-shot learning, self-supervised models, and centralized platforms may support co zed across the TOE dimensions, ranging from data access and skill shortages to cultural resistance, infra rent DAO governance. Future work will explore deploying lightweight AI models and extending this appr amining how emerging technologies—such as AI, XR, and Large Language Models (LLMs)—are blurring t formation of businesses and territories, assessing ecosystem services, managing energy systems, and su 1 of RAG, we introduce different types of retrievers and generation optimization methods. As the main f is. Subsequently, we develop a multimodal learning architecture comprising the semantic branch and the ed positively by the LLM chatbots and moths somewhat positively, while wasps, flies, and mosquitoes ar onal perspectives. The study underscores the critical role and dilemma of news media, which, while sen As software systems evolve to become more intelligent and human-centric, software engineering practic ine-grained adaptations, enabling them to manage complex tasks across diverse web environments. The ote fairness and inclusion for more than 300 million Bengali speakers in the evolving ecosystem of the W nese areas, demonstrating how LLMs can be fine-tuned for therapeutic dialogue generation, assessed fo long other cutting edge transformative technologies. Furthermore, the integration of reinforcement lear tive AI tools has significantly amplified the risks of disinformation, such as deepfakes, and algorithmic bi project development, and enabling them to have preliminary research and development capabilities for transform the traditional three-subject relationship of readers, librarians and systems into a new collabtudy aims to clarify the core techniques and applications of agents in scientific research, highlighting the

s formats. The absence of a unified representation standard significantly hinders the efficient utilization cape, with a 38.5% contribution share, where Artificial Intelligence (AI), the Internet of Things (IoT), and sion of a distributed and connected healthcare data system. Public funding is critical for this model's suc ucing ChatGPT, the characteristics and connotations of large language models, and discussing the oppor on and value cocreation in service ecosystems. Findings: We conceptualize seven different human-AI re crolenses, metasurfaces, and resonant cavities. Due to these technologies, Micro-LEDs can be effectively onth pilot study demonstrated significant improvements in efficiency, with a 33% reduction in response sess. In addition, the design of the platform ensures that the models are accessible and can be easily app e of humans. They speak of the impending destruction of the literary industry, a sensitive ecosystem, or wholly inadequate at others. Our overall recommendation is that behavioral researchers use Als judicion ness, demonstrating a high level of suitability (Mean = 4.73, SD = 0.30). The findings underscore the trans red positive feedback through user tests and questionnaires, proving the potential of combining children) Ateliers while strengthen ing bilateral scientific ties. The establishment of the National Quan tum Instit 3 baseline traditional AI approach, the proposed generative diffusion model approach can converge faste icy in healthcare, prioritizing peer-reviewed articles, policy analyses, case studies, and ethical guidelines information and interaction techniques can elucidate the model's thought processes. To this end, we int elevance to clinical outcomes. The review provides insights into interprofessional communication dynan

the context, forces, and trade-offs as the outcomes from the previous literature review. We propose a d ernational organizations. Regulators will need to advance flexible mechanisms to keep up with the pace with human society are still heated, and AI applications also grapple with unresolved issues in pertinent naviors, reducing energy usage and emissions. They facilitate the smart integration of EVs and renewable ial impacts of GenAI. We, therefore, attempt to bridge the technical and organizational communities of 2Milestones (S2M), a pioneering Indian EdTech company founded in 2009, is preparing to script a first-c 3 driving these improvements. Qualitative insights from semi-structured interviews highlighted participa act agility. Through iterative simulations, cognitive agents demonstrate advanced capabilities in task delinumans and technology over nonhuman animals and planetary ecological limits. In medicine, the enviro ruptions, ethical consequences, and potential misuses. The identified avenues for further research includes

nd a Data Container architecture to encapsulate both content and governance metadata. This design en alysis Toolkit for Informatics 3.2 and Python 3.9.0 were adopted for this research. Findings – This research a robust solution for addressing the challenges posed by misinformation propagation in the digital age is to benchmark their effectiveness. Furthermore, we analyze the Kubernetes objects most prone to mis res the root causes and impacts of the complexity of heterogeneous hardware co-design, the fragmenta on vector data at various stages consisting of pre-training, fine-tuning, inference, and retrieval-augment y enrich the theoretical framework of smart libraries, but also provide practical insights into the design a lopment pipeline, we identify emerging trends, persistent challenges such as generalization and data eff puting, and applications, highlighting the associated opportunities, challenges, and future trends. © 202 ency through four categories: parameter-centric, architecture-centric, training-centric and data-centric.

t is mainly reflected in the following aspects: First, multi-perspective integration, breaking through the liss (ANN) to uncover both linear and nonlinear dynamics influencing behavioral intention (BI) of 260 Nige

generative large models in specific educational contexts. It should be acknowledged that there are still r g generative hallucinations, and navigating ethical considerations in data usage. Future advancements a ogeneous data streams, providing real-time natural language summaries, and supporting decision-making, and semantic coherence across multiple DSLs, arguing that AI-COMPILER can usher in more agile, res

; are further compounded by concerns over academic integrity—evidenced by student use of large langu

-based medicine. However, problems including data privacy, model interpretability, and the need for lar ling half-precision floating-point support via the "zvfh" extension, to maximize parallel computation. Exp is paper presents a comprehensive end-to-end (E2E) Explainability Orchestration framework integrated afety, security, transparency, bias, and decision-making accountability become critical for many organiza DSS) driven by AI and MLLM provides comprehensive recommendations. Looking ahead, the potential contact hat leverages a pre-trained Large Language Model (LLM), GPT-4, for detecting incompatible APIs in Andrews

odular, interoperable, and scalable design of intelligent agent ecosystems. We highlight how P3394's uni captioning, achieving an average CLIPScore of 0.2852, and utilized advanced LLMs for product link retrie th directions to advance the development of resilient and privacy-preserving IoA ecosystems. © 2025 Els ate model provenance substantially shapes the tone and stance of outputs, with each LLM reflecting dist visualization, implementation intentions, and values clarification. Objective: This study aims to understa ingSec community to tackle outstanding, and growing, security problems catalyzed by AI. © 2025 Elsevie aph-based models, including Knowledge Graphs (KGs) and Graph Neural Networks (GNNs), are well-suite thod enables more scientific weight loss, prevents rebound weight gain, and fosters proactive healthy lif ro-shot LLM prompting (e.g., ChatGPT-3.5 and GPT-4). Experimental results demonstrate a perfect recall ulate contemporary traffic patterns. This eliminates privacy and security concerns associated with real-v a acquisition at unprecedented spatial and temporal scales. Meanwhile, due to the progress of artificial thcare resources by integrating multimodal clinical data. However, the application of the technology still olution (FCR), and enhance Customer Satisfaction (CSAT) scores by integrating Gen AI into core workflow cy but issues like unclear industry service types in legislation, limited credible application functions, and entors employ these mechanisms, leverage synergies between mechanisms, and unlock previously not Al-based solutions by 48.27%, and patented solutions have boosted the success rate of technological p Il platform aimed at fostering internationally-minded, innovative, and outstanding talents. The platform ins about faithfulness to intents, incentive compatibility, algorithmic stability, and the balance between I-native task orchestration framework that allows us to improve the ecosystem and develop efficient ec ı Intelligent Traffic Surveillance Video Compression Quality Assessment Method; evaluating the Perform the new information environment from different perspectives. On the one hand as a social device for ci educational domain knowledge to foster an adaptive, inclusive, and equitable educational ecosystem. (g Android malware detection using machine learning models, envisioning the future of security in the Ai echniques to build a generative pre-trained transformer (GPT)-based chatbot is exploited. The develope cesses input terms by generating vector embeddings, computing cosine similarity against precomputed sing Light-Weight Attention Integrated MobileNetV3 Model; Al-Driven Monitoring System for Detecting es, and other agriculture equipment, appliances, instruments, and machinery are flourishing towards into o train and develop AI models, demanding novel privacy-preserving strategies such as anonymization, d

ig of open-source models. This paper presents these ongoing efforts on the supercomputers provided by izes DeepSeek's innovative model from three perspectives, namely, compensating hardware with softwonstruction of China's AI open source innovation ecosystem from four dimensions: top-level design, infra an operators, SAMBA aims to minimize errors and adapt processes to complex, dynamic production en

esource relations, namely background, embodiment, hermeneutic, alterity, cyborg, immersion
times and a 25.7% increase in resource utilization. Additionally, customer satisfaction improved by
sformative potential of large language models in enhancing collaborative supply chain process
ute and the successful launch of the indigenous satellite TÜRKSAT 6A are key milestones. This in
nts' improved ability to identify market opportunities and develop innovative solutions to business chall egation, inter-agent communication, and project lifecycle management. By employing natur nmental impacts of large language models range from water consumption and carbon emission
, offering a promising tool for news verification and trustworthiness assessment in online information sconfiguration and evaluate the severity of the identified issues. By leveraging advanced mac ation of the software ecosystem, and highlights the fundamental challenges and latest progress in resou

silient IoT ecosystems through flexible, context-aware code generation and adaptation. © 2025 E

perimental results on a RISC-V-based BananaPi BPI-F3 platform demonstrate substantial impro nations. This study examines these complexities from a global IT perspective. We review the reconvergence of digital people, meta-universes and world models with wearable biosensors present

versal message protocols and P3428's standardized agent lifecycle complement each other in suppor eval. While our implementation of LLaMA3 achieved up to 0.97 accuracy in matching products to their

nd how users engage with Future Me, evaluate its effectiveness in supporting future-oriented thin ed for relational data modeling and multistage attack identification. Hybrid frameworks combine

world datasets and ensures a continuously adaptable data source for training and refining ML

employable mechanisms. We contribute to research by revealing two novel logics—the reap logic and the rojects by 40.12%. National Al products have expanded their domestic market share by 30%, respectively, development strategy, functional modules, and technical framework are deta

ance of Complex Text Generated by Large Language Models; a Benchmark Dataset and Evaluation of Co vilization inheritance and cultural dissemination libraries need to continuously optimize the comp

Observational Health Data Sciences and Informatics vocabulary embeddings, and ranking potential mat People Using Mobile Phones in Restricted Zone; integrated Analysis of Voice Patterns and Semantic Fea

y the European High Performance Computing Joint Undertaking (EuroHPC JU), with a focus on are, acquiring users through open source, and ecosystem priority. Meanwhile, it analyzes the cu astructure construction, cultivation of multiple participants, and improvement of open sour vironments. The framework proposes the enhancement of Manufacturing Execution Systems by incorpo