



Openai 2025

**Jonas Debrulle,Loïc Plé,Elliroma
Gardiner**



Openai 2025:

Beyond and After Prompt Engineering: The Future of AI Communication Vladimir Geroimenko, 2025-12-02 This pioneering book offers both a practical guide and a conceptual manifesto for rethinking our relationship with AI exploring the future of AI communication and moving beyond traditional prompt engineering towards more natural intuitive multimodal and context aware interactions It examines the personal cultural ethical and philosophical aspects of AI communication providing insights into how machines can comprehend context establish rapport exhibit emotional intelligence and collaborate effectively with humans The book outlines the key communication principles essential for ensuring clarity trust adaptability and mutual understanding in increasingly complex human AI dialogues Structured across 16 chapters and organised into three parts conceptual foundations communicative principles and future trajectories this volume combines in depth analysis with numerous real world examples and forward looking scenarios It is richly illustrated with 142 conceptual diagrams that clarify complex ideas and serve as visual companions to the narrative Covering both near term advancements and long term speculative trends this book serves as an essential guide for AI developers practitioners educators students and anyone interested in communicating more effectively with increasingly sophisticated AI systems , *Gehirn&Geist* 9/2025 *Die Kraft der Emotionen* Spektrum der Wissenschaft, 2025-08-01 Der Nachbar parkt schon wieder vor der Hofeinfahrt Die Bahn meldet noch mehr Versp tung als sonst Und der Winter ist auch nicht mehr das was er mal war Gr nde zum Aufregen gibt es viele Doch Vorsicht Regelm iger rger kann aufs Herz schlagen Wer leicht reizbar ist hat Studien zufolge ein erh htes Risiko f r einen Kreislaufstillstand Wie Gef hle die Herzgesundheit beeinflussen ist die zentrale Forschungsfrage eines noch recht neuen Fachgebiets der Neurokardiologie Neurowissenschaftler und Mediziner untersuchen dabei die so genannte Hirn Herz Achse die auf einem komplexen Zusammenspiel von Nerven Botenstoffen und Muskelzellen gr ndet Damit besch ftigt sich auch das Titelthema dieser Gehirn Geist Ausgabe Unser Autor Frank Luerweg erkl rt darin warum negative Emotionen wie Wut und Angst auf Dauer das Herz sch digen k nnen Die gute Nachricht Den eigenen Blick auf Positives zu richten und optimistisch in die Zukunft zu blicken soll das Herz sogar sch tzen Und das k nne man lernen etwa durch spezielle psychologische Programme die Gelassenheit f rdern und helfen aktiv gegen sch dliche Gef hlsregungen vorzugehen Daneben m chte ich auf einen Schwerpunkt in diesem Heft zu einem Thema hinweisen das unvermeidlich Abscheu ausl st aber trotzdem umso gr erer Aufmerksamkeit bedarf sexualisierte Gewalt Im ersten der beiden Artikel geht es darum wie falsche Annahmen und Klischees ungerechtfertigte Scham bei den Betroffenen erzeugen Wie k nnen sie lernen ihre Schuldgef hle zu berwinden Im erg nzenden Interview berichtet der Politikwissenschaftler Carlo Koos ber den Einsatz von sexualisierter Gewalt als Kriegswaffe einer erschreckend weit verbreiteten Praktik Koos erforscht welche Strategien die Opfer gegen die Stigmatisierung entwickeln □ The Model Context Protocol: Unifying AI Communication Etienne Noumen, The Model Context Protocol Unifying AI Communication This episode introduces the Model Context Protocol MCP an open

standard designed to enable seamless communication between AI agents and external data sources or tools much like a universal adaptor It addresses the N M integration problem where connecting numerous AI models to various tools creates an unsustainable development burden The show explains MCP s three tier architecture consisting of a Host the user facing application an MCP Client which manages sessions and an MCP Server which translates requests for data sources like databases or APIs Furthermore it details how MCP uses JSON RPC 2 0 for messaging and supports dynamic discovery of capabilities alongside critical security principles for implementation Finally it distinguishes MCP from other standards highlighting its complementary role with the Agent to Agent A2A Protocol for multi agent collaboration Audio at AI Unraveled Builder s Toolkit Build Deploy AI Projects Without the Guesswork E Book Video Tutorials Code Templates for Aspiring AI Engineers Start building today Get Full access to the AI Unraveled Builder s Toolkit Videos Audios PDFs at <https://djamgatech.myshopify.com/products/ai-unraveled-the-builders-toolkit-practical-ai-tutorials-projects-e-book-audio-video> **Digital**

Technology for Humans Robert Hanna, 2025-06-02 Digital ethics and AI ethics are of fundamental importance for humankind and its future Hanna shows how specifically Kantian moral principles can be applied to the design production and implementation of digital technology with a special focus on how these principles flow from the concept and fact of human dignity His core thesis is that digital technology is nothing more and nothing less than a tool created by humankind for the betterment of humankind whose use should be constrained by Kantian moral principles grounded in human dignity This thesis promises to stimulate new research on Kantian approaches to digital ethics and AI ethics It also has important political implications including a clarion call for us to engage in the self conscious self disciplined and free exercise of our own innate cognitive affective and practical capacities in the face of new and exceptionally powerful forms of digital technology e g chatbots that threaten to undermine our ability to think feel and act for ourselves **AI Concepts and Applications for**

Business Leaders Ken K. Wong DBA, 2025-08-24 This is every businessperson s essential guide to AI no matter what industry and it s written for those not steeped in technology Ken packs every chapter with practical examples from around the world of AI in action and step by step advice on implementation It s balanced and doesn t shy away from the tough issues from ethics to job loss to the environment This book will help your business navigate our AI infused future David Agnew President Seneca Polytechnic In AI Concepts and Applications for Business Leaders Dr Ken Wong explores compelling examples of how artificial intelligence is transforming countless business sectors today whilst providing business leaders with practical insights to harness AI s future potential and drive innovation across their organisations Darren Entwistle President and CEO TELUS How many of these quotes were written by AI Frightening or relieving That s your call Yet if you want to continue driving the decision making you may consider reading Ken s book My take is that intuition will remain a human activity Asimov didn t seem against that view And the world changes every day So anything that can leverage our intuition is good Tomorrow starts today Xavier de Roquemaurel CEO Czapiek Cie SA Artificial Intelligence is transforming

industries workplaces and daily life AI Concepts and Applications for Business Leaders demystifies key technologies strategic implementations and practical use cases across finance healthcare retail and beyond With clear insights on ethics innovation and the future of work this book empowers executives students and professionals to navigate and lead in an AI driven world Bonus appendices offer hands on prompt examples from data analysis to creative content generation Whether you re building strategy or exploring possibilities this is your essential roadmap to thriving in the era of intelligent technologies

Mastering AI for Strategic Business Success Jonas Debrulle,Loïc Plé,Ellyoma Gardiner,2025-10-14 In the rapidly evolving landscape of modern business artificial intelligence AI has emerged as a transformative force redefining how organizations operate compete and thrive The advent of AI has introduced unprecedented opportunities and challenges compelling business leaders to navigate a complex intersection of technology and strategy This book provides readers with the tools and perspectives necessary to harness the power of AI responsibly ethically and effectively ultimately driving strategic business success It is an indispensable and comprehensive resource for anyone seeking to understand the strategic implications of AI its role in shaping the future of business and how to leverage AI for strategic advantage Key Features Designed with alternating strategy and technology focused chapters that are tightly interwoven the text provides A clear integrated framework that links AI technologies directly to core strategic business decisions and operational actions Cutting edge case studies and examples illustrating how organizations across sectors are deploying AI to gain a competitive edge Companies discussed include amongst others Netflix Amazon Spotify Ocado the Adecco Group 9altitudes NatWest Group and AlterEos Pedagogical tools such as learning objectives real world examples and applications of AI and in depth discussions of technical aspects of AI support comprehension critical thinking and classroom discussion Digital support via McGraw Hill s Connect platform offering data driven simulations videos case studies and a wide bank of test questions for enhanced learning and engagement Dr Jonas Debrulle is an Associate Professor at I SEG School of Management in France and the Faculty of Economics and Business at KU Leuven in Belgium Previously he was Director of Programs at I SEG overseeing undergraduate and postgraduate programs He currently teaches international strategic management technology entrepreneurship and the impact of AI on business development Dr Lo c Pl is a Professor of Strategic Management and Director of Teaching and Learning at IESEG School of Management He has a Ph D in Management Sciences from University Paris Dauphine PSL He created I SEG Center for Educational and Technological Innovation CETI in 2009 promoting the use of technology to benefit teaching and learning Dr Ellyoma Gardiner is an Organisational Psychologist and Associate Professor at QUT Business School in Australia With over 18 years of experience teaching and researching across Australia Asia and Europe she has held academic positions at the London School of Economics I SEG School of Management and Griffith University *Grafik ve Tasarımda Güncel Konular* Özlem KUM,2025-06-03 **Gehirn&Geist 7/2025 Gehirn und KI im Dialog** Spektrum der Wissenschaft,2025-06-06 Neulich schnappte ich ein Gespräch zwischen einem Vater und seinem

Sohn auf Der Junge fragte wie viele L nder es auf der Welt gibt Keine Ahnung da musst du Google fragen Darauf das Kind Nee Google wei nix Ich frage ChatGPT Ich finde es immer wieder erstaunlich welchen Stellenwert die KI Algorithmen inzwischen in unserem Leben haben Seit meinen Anf ngen als Praktikantin bei Spektrum im Jahr 2017 besch ftige ich mich mit k nstlicher Intelligenz Fr her musste ich noch jeden Artikel zu dem Thema damit einleiten dass KI Systeme bereits in vielen Computerprogrammen und Websites laufen aber meist unbemerkt im Hintergrund Der Gro teil der Lesenden konnte sich nicht viel darunter vorstellen Mittlerweile haben die meisten Menschen in Deutschland schon einmal mit Chatbots wie ChatGPT Claude oder Gemini interagiert Die Gespr che mit den KI Tools unterscheiden sich kaum von solchen die man mit einem Menschen f hren w rde Ein Freund teilte mir k rzlich mit dass seine ChatGPT App nun anf ngst ihm R ckfragen zu stellen Solche Verhaltensweisen legen den Verdacht nahe dass die Algorithmen ein Bewusstsein entwickeln k nnten Sind Sprachmodelle in der Lage Dinge zu f hlen Pl ne zu schmieden und ihr Verhalten zu reflektieren Bislang lautet die einhellige Meinung der Fachwelt Nein KI Anwendungen haben definitiv noch kein Bewusstsein doch das k nnte sich ndern wenn man sich bei ihrer Entwicklung ein paar Funktionsweisen des menschlichen Gehirns abguckt Die Titelgeschichte in dieser Ausgabe ist der Auftakt einer Artikel Serie zum Wechselspiel der Intelligenzen in der wir beleuchten wie sich k nstliche und menschliche Intelligenz gegenseitig beeinflussen Setzt man sich lange genug mit den Chatbots auseinander stellt man fest dass sie gar nicht so allwissend sind wie sie manchmal scheinen Viele KI Modelle kann man durch einfache Fragen wie Wie oft taucht der Buchstabe E im Wort Erdbeere auf hereinlegen Das entlarvt dass sie nichts von dem was sie von sich geben wirklich verstehen Die Fehler von ChatGPT Claude und Co k nnten dabei helfen die Programme weiterhin von uns abzugrenzen oder ihnen im Gegenteil eine menschlichere Seite verleihen Vielleicht ist die KI ja irgendwann sogar zur Schuldabwehr f hig einer zutiefst menschlichen F higkeit Psychologen sprechen auch vom fundamentalen Attributionsfehler In seiner Kolumne Ein Quantum Wahrheit erkl rt der ehemalige Spektrum Redakteur Steve Ayan diesmal wie dieser faszinierende Effekt funktioniert Eine unterhaltsame Lekt re w nscht Ihnen Manon Bischoff *KI-Transformation in Deutschland* Thomas Breyer-Mayländer, Dirk Drechsler, Christopher Zerres, 2025-09 Das Ziel des vorliegenden Buchs ist es eine differenzierte Betrachtung der KI Transformation in und ausgehend von Deutschland zu geben indem die Auswirkungen der KI aus technologischer wirtschaftlicher rechtlicher und gesellschaftlicher Perspektive beleuchtet werden Gleichzeitig sollen dabei sowohl wissenschaftliche Erkenntnisse als auch praktische Anwendungsszenarien den Blickwinkel erweitern Der erste Teil des Buches widmet sich der technologischen Entwicklung und einigen grundlegenden Fragen rund um KI Im zweiten Abschnitt steht die Bedeutung von KI f r die Wissenschaft die Bildung sowie die Kreativ und Kulturwirtschaft im Mittelpunkt Der dritte Teil des Buches beleuchtet die KI Transformation in Wirtschaft und Finanzen Das Buch richtet sich sowohl an Studierende Menschen im Bildungswesen sowie Fachleute und soll als Orientierungshilfe Impulsgeber und als Grundlage f r weiterf hrende Diskussionen ber die Zukunft der KI in unserer Gesellschaft dienen **Elite Quality Index**

2025 Tomas Casas i Klett, Guido Cozzi, 2025-07-15 *The Elite Quality Index 2025 The Sustainable Value Creation of Nations* EQx2025 the leading global political economy index is a comparative ranking measuring the sustainability of nations that assesses whether elites create value and expand a nation's knowledge capabilities or use their power to rent seek and maximize their own profits by transferring value from their stakeholders The EQx2025 uses 149 indicators to analyze 151 countries and measures conceptual elements such as Power Creative Destruction and Unearned Income to determine whether the elites of a given country create or extract value from their nation Elites are defined as those that lead a society's most important business models and range from technology giants to labor unions with members including business political and knowledge elites Their collective coordination capacity helps them to leverage their power and influence over institutions A nation's elite system and its most powerful business models are essential for value creation and economic and human development The report describes high quality elites as those that can increase or grow the overall size of the economic pie while low quality elites use their power advantages to grow their own slice at the cost of others *Synthetic Souls* Vincent Froom, 2025-06-16 What happens when we build machines that model our thoughts mimic our emotions and finish our sentences better than we can The *Mirror That Talks Back* is a bold exploration of the evolving relationship between human and artificial minds Blending cognitive science philosophy of mind emerging AI research and wry speculative insight this book asks not whether machines can become conscious but whether we can continue defining consciousness without them From emotion emulators and brain machine interfaces to synthetic empathy and swarm cognition each chapter examines how artificial systems are reshaping not only how we live and think but how we understand what it means to be alive and thinking at all Along the way it investigates questions few dare to ask Can pain be programmed and should it What happens when machines know us better than we know ourselves Do we owe ethical consideration to minds that don't quite exist And what will it mean to share our cognitive habitat with something that talks back Far from dystopian doom or utopian dreams this book maps the strange middle terrain we actually inhabit where minds are plural boundaries blur and reflection becomes a collaborative act between species one organic one synthetic This is not a book about how machines will replace us It's about what they might reveal about the parts of us we've never truly understood For readers of Daniel Dennett Thomas Metzinger David Chalmers or those who've ever whispered thank you to a chatbot and meant it *Generative AI Security* Shaila Rana, Rhonda Chicone, 2025-10-31 Up to date reference enabling readers to address the full spectrum of AI security challenges while maintaining model utility *Generative AI Security Defense Threats and Vulnerabilities* delivers a technical framework for securing generative AI systems building on established standards while focusing specifically on emerging threats to large language models and other generative AI systems Moving beyond treating AI security as a dual use technology this book provides detailed technical analysis of three critical dimensions implementing AI powered security tools defending against AI enhanced attacks and protecting AI systems from compromise through attacks like prompt injection

model poisoning and data extraction The book provides concrete technical implementations supported by real world case studies of actual AI system compromises examining documented cases like the DeepSeek breaches Llama vulnerabilities and Google s CaMeL security defenses to demonstrate attack methodologies and defense strategies while emphasizing foundational security principles that remain relevant despite technological shifts Each chapter progresses from theoretical foundations to practical applications The book also includes an implementation guide and hands on exercises focusing on specific vulnerabilities in generative AI architectures security control implementation and compliance frameworks

Generative AI Security Defense Threats and Vulnerabilities discusses topics including Machine learning fundamentals including supervised unsupervised and reinforcement learning and feature engineering and selection Intelligent Security Information and Event Management SIEM covering AI enhanced log analysis predictive vulnerability assessment and automated patch generation Deepfakes and synthetic media covering image and video manipulation voice cloning audio deepfakes and AI s greater impact on information integrity Security attacks on generative AI including jailbreaking adversarial backdoor and data poisoning attacks Privacy preserving AI techniques including federated learning and homomorphic encryption

Generative AI Security Defense Threats and Vulnerabilities is an essential resource for cybersecurity professionals and architects engineers IT professionals and organization leaders seeking integrated strategies that address the full spectrum of Generative AI security challenges while maintaining model utility

Insight Turkey
Spring 2025 Abdullah Keşvelioğlu,Ahmet Özkan,Anicia Peters,Beyza Okumuş,Can Gu,Cenay Babaoğlu,Chuanying Lu,Çise Karadeniz,Dolapo Fakuade,Ecem Buse Sevinç Çubuk,Edward Geist,Emre Çıtak,Enes Balcıoğlu,Erman Akıllı,Fatih Sinan Esen,Gloria Shkurti Özdemir,Gökhan Bozbaş,Hakkı Uygur,Helder Ferreira Do Vale,Hurşit Dingil,İtir Toksöz,Iyanuloluwa Oluwatosin Wintola,Kamil Tarhan,Katherine Chandler,Kılıç Buğra Kanat,Lio Guozhu,Martial Fanga Agbor,Mehmet Emin Erendor,Mehmet Fatih Kacı,Meysune Yaşar,Mustafa Böyük,Naci Yorulmaz,Nezir Akyeşilmen,Nick Couldry,Orhan Aydın,Ozan Ahmet Çetin,Ulises A. Mejias,Yavuz Akdağ,2025-07-01

The world is undergoing one of the most profound transformations in modern history a transition from an international system shaped primarily by military and economic might to one increasingly dominated by technological power Artificial intelligence quantum computing cyber capabilities advanced robotics and data sovereignty have become the new frontlines of global competition This transformation is not merely technical it is deeply political economic social and strategic It is giving rise to what scholars and analysts are increasingly calling a technopolar world order in which those who master key technologies shape the direction of global affairs At the heart of today s global economic realignment lies the centrality of technology as the primary driver of value creation competitiveness and resilience Traditional sources of economic power natural resources industrial capacity or even financial clout are increasingly subordinated to control over data flows algorithmic infrastructures digital platforms and advanced manufacturing capabilities The rise of the intangible economy driven by artificial intelligence cloud computing and smart

automation has created new economic fault lines between technological haves and have nots. The countries that dominate semiconductor supply chains, AI development and digital services are fast becoming the new centers of gravity in the global economy. For states falling behind in technological innovation, it is no longer a manageable disadvantage; it is an existential threat to national competitiveness, productivity and security. The rapid pace of change leaves no room for complacency. Economic dependency on foreign technologies, whether in telecommunications, AI or defense systems, renders states vulnerable to strategic coercion and economic disruption. As such states find themselves compelled to invest heavily in indigenous innovation, digital sovereignty and resilient supply chains, even at great economic and political cost. In Türkiye, these trends are acutely felt. The country has actively embraced the economic opportunities presented by emerging technologies by fostering a vibrant start-up ecosystem, expanding its national AI strategy and investing in advanced defense technologies through firms like Baykar Technologies and ASELSAN. New initiatives such as TOGG, Türkiye's first domestically produced electric vehicle, and the growth of biotechnology and fintech sectors exemplify efforts to diversify the economy. Emerging technologies are also transforming the political dimensions of state power and sovereignty. Technologies such as semiconductors, 5G infrastructure, cloud computing and big data are no longer neutral tools of efficiency; they have become strategic assets wielded by states and corporations alike as instruments of foreign policy, economic leverage and geopolitical coercion. The weaponization of technology is now visible in the use of export controls on semiconductors, data localization demands and the strategic positioning of data centers and digital infrastructures as sites of influence and contestation. The ongoing U.S.-China technology rivalry, battles over AI supremacy and control of critical supply chains highlight the extent to which technological dominance has become a key determinant of international influence. The social impacts of emerging technologies are equally transformative. Digital platforms now mediate not only commerce and communication but also political participation, identity formation and social organization. Technologies such as AI-powered content algorithms, deepfakes and digital surveillance are reshaping public discourse, often deepening societal polarization and creating vulnerabilities to misinformation, cyber manipulation and digital authoritarianism. Perhaps the most rapid and consequential changes are occurring in the military and security domain. Technologies such as artificial intelligence, drone warfare, cyber operations and space-based systems are revolutionizing how conflicts are waged and how deterrence is maintained. The recent return of Donald Trump to the U.S. presidency is widely expected to accelerate the militarization of artificial intelligence with greater investment in autonomous weapons, cyber offense and AI-enhanced command systems. This development signals the onset of a more volatile strategic environment where AI-enabled military competition, which will also lead to an increased security dilemma within the international system, will intensify not only between major powers but also in contested regions where middle powers play an increasingly prominent role. Across all these domains, one reality becomes clear: the speed and scale of technological change leave states with no viable alternative but to adapt. The costs of

technological disengagement are simply too high. In today's rapidly evolving landscape, not engaging in the race for technological advancement is equivalent to strategic self-marginalization economically, politically, socially, and militarily. For middle powers like Türkiye, this environment presents both opportunities and risks. By investing in strategic technologies, participating in global norm-setting processes, and building national resilience, Türkiye can avoid the pitfalls of dependency and carve out a role as a rule-maker rather than a rule-taker in the technopolar age. For Türkiye, the technological revolution represents not only a necessity but an opportunity: an opportunity to strengthen national sovereignty, build economic resilience, and advance an autonomous foreign policy in an increasingly fragmented and competitive world. This strategic push is guided by the recognition that remaining on the periphery of the technological revolution is not an option. Türkiye sees this transformation not as a threat but as an opportunity, specifically a means to reinforce national sovereignty, enhance economic security, and assert greater autonomy in foreign policy.

This special issue of *Insight Türkiye* brings together scholars and experts who explore these themes in depth. Through analyses of Türkiye's defense innovation, digital transformation, regulatory approaches, and foreign policy recalibrations, this volume offers critical insights into the challenges and possibilities of the technopolar age. This issue starts with a valuable commentary from the Minister of Industry and Technology of Türkiye, Mehmet Fatih Kacır. In his commentary, Türkiye's National Technology Move is framed as a decisive and timely response to global industrial and geopolitical transformations. This integrated approach positions Türkiye as a trusted producer, global partner, and an inspiring model for emerging economies navigating the complex dynamics of a technology-driven 21st-century world order.

This issue starts with a valuable commentary from the Scientific and Technological Research Council of Turkey (TÜBİTAK). As the President of TÜBİTAK, Orhan Aydın details in his commentary how TÜBİTAK spearheads efforts in high-tech production, digital and green transitions, and global competitiveness. Notable milestones include the development of a national supercomputer, a Turkish Large Language Model breakthroughs in quantum sensing and post-quantum cryptography, and the successful launch of the indigenous satellite TÜRKSAT 6A. This special issue, besides its main focus on Türkiye, has tried to provide a special framework in terms of technological developments taking place globally, especially in regard to the U.S.-China rivalry and the developments taking place in these countries.

Within this perspective, Chuanying Lu's analysis focuses on the institutionalization of digital geopolitics amid the ongoing U.S.-China technological rivalry. Lu argues that the strategic indispensability and generality of digital technologies have not only reshaped traditional international relations but have also established digital geopolitics as an emergent field where technological capabilities serve as the new currency of state power. Lu's work raises critical questions about the strategic assets at stake and whether this rivalry will evolve into a tech Cold War with profound implications for the future international order.

Concurrently, Liu Guozhu provides a comprehensive overview of China's innovation ecosystem, emphasizing its distinctive structure driven by enterprises, national laboratories, research institutes, and universities. Liu's analysis underscores how China's coordinated innovation system plays

a central role in sustaining its technological ascendancy Katherine Chandler's commentary underscores several critical insights about data in deep learning and AI particularly in conflict settings She emphasizes that the global supply chain concept extends beyond hardware like semiconductors to include data itself which unlike natural resources are representations and require different treatment Using ChatGPT's analysis of Sahel conflicts Chandler highlights the limitations of large language models in managing complexity and uncertainty The paper warns that ignoring data collection challenges and ongoing uncertainties in conflict zones will undermine military AI effectiveness Ultimately it calls for a global debate on the role of military AI stressing that technology alone cannot address these complex issues Dolapo Fakuade's commentary explores the dual edged nature of AI in intercultural communication While AI holds great promise for bridging cultural barriers fostering mutual understanding and connecting diverse populations it also introduces challenges such as algorithmic bias and the broader social consequences of digital transformation Through regional examples Fakuade highlights that AI may pose more risks than opportunities if not adopted and governed with care In another commentary Anicia Peters reflects on the 2025 Antalya Diplomacy Forum which took place amid heightened geopolitical tensions and a superpower race in artificial intelligence The forum emphasized Türkiye's diplomatic role in fostering equitable partnerships particularly with African nations and promoting both North South and South South cooperation At the same time Peters analyzes challenges for Africa such as poor data quality infrastructural limitations talent gaps and weak regulatory frameworks in terms of the African technological development Erman Akıl and Gloria Shkurti Zdemir's article examines Türkiye's pursuit of technological sovereignty and strategic autonomy in response to decades of dependency and embargoes Under President Erdoğan's leadership Türkiye has initiated a broad technological transformation developing indigenous defense systems AI models and national algorithms This strategy aims to reduce foreign reliance enhance resilience and assert influence in the emerging technopolar world The article highlights Türkiye's shift from technology importer to innovator and norm shaper positioning the country as an active digital power shaping the new global order Kamil Tarhan's article examines Türkiye's cybersecurity policies in an era where digital capabilities are critical to national security and global influence The study focuses on efforts to secure critical infrastructure strengthen digital sovereignty through comprehensive legislation and institutional development and invest in domestic technology production Tarhan also explores the role of AI in mitigating cyber risks and draws comparisons with the cybersecurity strategies of other emerging powers The article portrays Türkiye's efforts to safeguard its digital domain and assert itself as a significant actor in global cyber governance within an increasingly technopolar world Fatih Sinan Esen's contribution highlights Türkiye's strategic use of AI as a tool for national competitiveness and security in a technopolar era Esen documents Türkiye's transition from being a technology importer to becoming an active innovator particularly in sectors such as defense healthcare and education Emphasizing inclusive AI human capital development and data governance the article places Türkiye's AI strategy within the broader

geopolitical and regulatory context Military remains the main sector which is first and foremost impacted by the emergence of the new technologies Within this perspective Ozan Ahmet etin s study analyzes differing national priorities in AI development through a comparison of T rkiye and the United Arab Emirates UAE The research reveals given resource constraints states often prioritize proven AI solutions that address immediate needs T rkiye emphasizes AI for counter terrorism while the UAE addresses labor shortages Still maintaining the focus on the military domain Mehmet Emin Erendor and Emre tak examine the transformative impact of autonomous weapons and AI integrated systems on modern warfare with particular focus on AI supported killer drones The study explores how AI enabled drones impose strategic pressure on adversaries and provoke new forms of deterrence and countermeasures offering critical insights into the future of warfare and military doctrine In another research article G khan Bozba explores the innovative integration of defense technologies such as drones sensor networks and AI into T rkiye s agricultural sector to enhance productivity sustainability and resilience T rkiye s defense agriculture integration is presented as a replicable model for other emerging economies emphasizing the need for multi sectoral collaboration to drive sustainable rural development 2024 was an important year for T rkiye in terms of its space program It r Toks z investigates the concept of technopolarity to describe a world where powerful technology companies increasingly rival the authority of nation states particularly in the space domain By contrasting the U S model of market driven technological power with China s state centric approach Toks z examines how an emerging space nation like T rkiye can navigate this complex environment Besides space domain sea domain is another one where technology is having a great impact Within this context Ahmet zkan and Meysune Ya ar analyze T rkiye s naval modernization between 2011 and 2024 through the lens of offense defense balance theory and emphasize the critical role of technology in T rkiye s pursuit of becoming a rising naval power Following with another article Cenay Babao lu and Ecem Buse Sevin ubuk examine AI s dual role in global governance The article assesses the U S China AI rivalry and the European Union s regulatory leadership through the EU AI Act While T rkiye is not yet a major AI developer it is emerging as a regional mediator and soft balancer through its diplomatic engagements and AI initiatives leveraging its unique geopolitical position to shape international tech governance norms Nezir Akye ilmen and Yavuz Akda explore the potential for creating a holistic accountable and effective global digital governance framework amid escalating geopolitical tensions and regulatory fragmentation Drawing on Joseph Nye s regime complex theory and the Internet Governance Forum s IGF multi stakeholder model the article argues that a strategically recalibrated IGF can improve legitimacy and inclusivity in global internet governance As mentioned earlier AI is impacting the global and regional politics more than any other technology Helder Ferreira do Vale evaluates AI regulation across BRICS countries using a typology of governance models and an AI Readiness Index grounded in national laws and strategies The study finds China best prepared to regulate AI with Brazil India and South Africa facing significant implementation challenges and Russia trailing behind Mustafa B y k s research compares ideological orientations and

algorithmic biases in AI models from Eastern and Western perspectives by analyzing ChatGPT 4 and DeepSeek R1 The study reveals that Western AI emphasizes values like individual freedom and transparency while Eastern AI tends to reflect collective state centered principles The findings challenge the assumption of AI neutrality and underline AI s growing role in shaping global ideological narratives and digital norms Lastly while technology remains the highlight of the developments in international affairs unfortunately the Middle East region has once again witnessed another war In this issue through the commentary of Hakk Uygur we brought to our readers a brief analysis of Israel s simultaneous air cyber and covert strike against Iran on June 13 2025 This operation exemplifies how the integration of cutting edge military technologies with advanced intelligence capabilities is reshaping regional security dynamics in the Middle East Furthermore the commentary assesses T rkiye s mediation initiatives and the heightened defense postures across the region which collectively influence the evolving balance of power We hope that these contributions will inspire further scholarship dialogue and policy innovation to help ensure that the future of technology serves not only the interests of power but also the broader goals of stability cooperation and human well being

Mathematics Beyond the Classroom Selçuk Alkan, Que los alumnos usen crítica, innovadora y éticamente las inteligencias artificiales Fernando Moliní Fernández, Alejandro Vallina

Rodríguez, 2025-09-24 Este libro llega en un momento en que las universidades están debatiendo qué hacer con la inteligencia artificial IA Por ejemplo la Universidad Autónoma de Madrid se está planteando suprimir la obligatoriedad de realizar los Trabajos de Fin de Grado y los Trabajos de Fin de Máster ante la imposibilidad de saber si los alumnos los han hecho con ayuda de las IAs Con este libro nosotros ofrecemos una posible solución sobre cómo integrar las IAs en los trabajos académicos de una manera ética y en la que los alumnos desarrollen su capacidad crítica e innovadora Hasta donde sabemos es la primera vez que se propone algo así en el mundo

Gehirn&Geist 8/2025 Dopamin Spektrum der Wissenschaft, 2025-07-04 Haben Sie schon mal von Dopaminfasten gehört Bei diesem Gesundheitstrend will man das Gehirn von allerlei schädlichen Gelsten befreien indem man für längere Zeit Verlockungen wie Social Media dem Smartphone oder Süßigkeiten entsagt Durch den Verzicht soll sich das Gehirn von dem Botenstoff erholen und wieder ins Gleichgewicht kommen Doch so einfach ist es nicht Es mag eine gute Idee sein sich hin und wieder Auszeiten zu gönnen Wir können aber nicht süchtig nach Dopamin werden Genauso wenig ist es möglich den Botenstoff zu fasten Seine Konzentration reguliert sich im gesunden Gehirn von allein Dennoch ist Dopamin ein faszinierender und noch längst nicht vollständig verstandener Neurotransmitter Den vielfältigen Talenten und falschen Annahmen um den Stoff widmet sich unser Autor Theo Parker in der Titelgeschichte Eine wichtige Aufgabe von uns Wissenschaftsjournalistinnen und Wissenschaftsjournalisten ist es verbreitete Annahmen in der Gesellschaft auf ihren Wahrheitsgehalt zu prüfen Daher freue ich mich dass in diesem Heft noch ein weiterer Gesundheitshype auf dem Prüfstand steht Denn ähnlich wie ist der Vagusnerv Er verbindet das Gehirn mit fast allen Organen des Körpers etwa dem Herz oder dem Darm Wellness Influencer sprechen dem Hirnnerv eine heilende Kraft bei der Behandlung diverser Krankheiten zu

Was Fachleute über ihn wissen und welche Hoffnungen berechtigt sind erfahren Sie im Artikel Heilung per Vagusnerv Ich wünsche Ihnen eine spannende Lektüre bei der Sie etwas für sich mitnehmen können Ich jedenfalls gönne mir weiterhin und ohne schlechtes Gewissen meinen persönlichen Dopamingaranten Schokolade Liesa Bauer Redaktion Spektrum der Wissenschaft

A Brain-Inspired Approach to Natural Language Processing Thasayu Soissonthorn, *Empowering Women in Academia: Improving Methods, Practices, and Approaches for Change and Transformation (IMPACT)* Kincade, Lolita L., Brossette, Alicia, Lacy, Constance, Benjamin, Crystal, 2025-03-07 Empowering women in academia is essential for fostering diversity equity and inclusion within educational institutions The Improving Methods Practices and Approaches for Change and Transformation IMPACT initiative aims to address systemic barriers that hinder women's advancement in academic careers by advocating for structural changes developing support networks and promoting leadership opportunities By rethinking traditional academic practices and embracing innovative approaches IMPACT seeks to create an equitable environment where women can thrive as researchers educators and leaders Further research of the initiative may inspire a more inclusive and transformative future for academia that benefits all students faculty and institutions Empowering Women in Academia Improving Methods Practices and Approaches for Change and Transformation IMPACT explores the recruitment retention and success of women administrators faculty and staff in academic environments It examines the lived experiences of women faculty and leaders including unique intersectional experiences and experiences of women from underrepresented groups This book covers topics such as gender studies imposter syndrome and sociology and is a useful resource for educators administrators academicians sociologists and researchers

□ **AI and the Job Market: Adapting to a New Era of Work** Etienne Noumen, This eBook describes how Artificial Intelligence AI is fundamentally altering the global job market moving beyond science fiction to reshape industries and work tasks It explores the potential for job displacement alongside significant job creation and the transformation of existing roles highlighting the ongoing debate between human and artificial capabilities The sources emphasise the crucial need for continuous learning and upskilling to adapt to this AI driven future focusing on developing a blend of technical and human centric skills while also showcasing real world examples of human AI collaboration and emerging AI powered careers Finally the text calls for proactive engagement and collective effort to navigate this transition ethically and ensure a fulfilling and equitable future of work This book tackles The Rise of AI in the Workplace How AI is already impacting various industries highlighting specific examples e.g automation in manufacturing AI powered customer service chatbots data analysis in finance Discuss the growing influence of AI in daily tasks and its implications for different job roles emphasizing both the potential displacement of some jobs and the creation of new roles Explain the ongoing debate surrounding AI and its potential to outpace human capabilities offering a balanced perspective on both the anxieties and opportunities associated with this technological shift This book covers Adapting to the AI Driven Future Emphasize the importance of continuous learning and upskilling to remain competitive in a rapidly evolving job

market Offer practical advice for individuals to stay ahead of the curve by developing skills relevant to AI driven industries e.g data analysis programming AI literacy Encourage viewers to embrace change and view AI as a collaborator rather than a threat showcasing how AI can augment human capabilities and unlock new possibilities The eBook also examines Skills for the Future AI Powered Careers Discuss the emergence of new job roles driven by AI such as AI trainers AI ethics specialists and data science professionals Explore the unique skills and knowledge required for these roles highlighting the need for a blend of technical expertise and critical thinking Provide examples of successful professionals who have transitioned into AI related careers showcasing their career paths and the skills they honed to succeed Last but not least the ebook dives into The Future of Work Embracing Human AI Collaboration Emphasize the importance of collaboration between humans and AI showcasing how AI can augment human capabilities and enhance productivity Present real world examples of successful human AI partnerships across industries demonstrating the potential for positive change and growth Offer a hopeful outlook on the future of work highlighting the potential for a more fulfilling and equitable job market where AI and humans work in tandem to address complex challenges

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