2023

Gehirn&Geist 12/2023 Besser denken dank Brainfood?

Ich liebe Obst und Gemüse: Zu meinen Favoriten gehören unter anderem Beeren, Äpfel, Brokkoli und Tomaten. Dass sie auch die Gesundheit fördern sollen, ist da für mich erst einmal nur ein Nebenaspekt – wenngleich ein wichtiger. Manchen dieser Leckereien wird zudem eine positive Wirkung auf unser Gehirn nachgesagt. Die in ihnen vorkommenden Omega– Fettsäuren, Flavonoide oder B-Vitamine sollen unseren Denkapparat leistungsfähig halten: echtes Brainfood, das mindestens so wichtig ist wie geistig anregende Tätigkeiten. Die Belege dafür fehlen allerdings noch vielfach, wie Frank Luerweg in unserem Titelthema ab S. 12 beschreibt. Viele Studien basieren demnach auf Korrelationen, die über Umfragen erfasst wurden. Wer beispielsweise angab, viele Beeren zu essen, schnitt Jahre später bei Hirnleistungstests besser ab. Ein echter Wirkungszusammenhang lässt sich daraus jedoch nicht ableiten. Denn wer gerne Heidel-, Him- und Erdbeeren verspeist, legt wahrscheinlich generell viel Wert auf ausgewogene Ernährung sowie vermutlich auf Sport und geistige Anregung. Ergebnisse von Tierstudien wiederum sind nicht ohne Weiteres auf uns Menschen übertragbar. »Es gibt nicht den einen Nährstoff, der geistigen Abbau oder andere Krankheiten verhindert«, sagt denn auch Veronica Witte vom Max-Planck-Institut für Kognitions- und Neurowissenschaften in Leipzig. Das gezielte Einwerfen von Kapseln oder Pillen, die besagte Inhaltsstoffe konzentriert dem Körper zuführen sollen, bringt also womöglich nichts. Ich verzichte darauf ohnehin und ernähre mich lieber ausgewogen und vielfältig – auch geschmacklich ein Gewinn gegenüber den Nahrungsergänzungsmitteln. Besonders spannend finde ich persönlich unseren Artikel zu den Schlafrhythmen von Jugendlichen. Mit zwei pubertierenden Kindern im Haus kann ich gut beobachten, wie sich die Wachphasen mehr und mehr in den Abend verlagern. An den Wochenenden oder in den Ferien dauert es dafür morgens immer länger, bis sie aus den Federn kommen. Mal sehen, welche der Tipps im Artikel ich zu Hause umsetzen kann – und mit welchem Erfolg. Allzeit guten Schlaf wünscht Ihnen, Daniel Lingenhöhl, Chefredakteur Spektrum der Wissenschaft.

OECD Economic Surveys: Portugal 2023

The Portuguese economy has rebounded strongly from the COVID-19 crisis. Though high inflation and weak global economic conditions have slowed growth in 2022, renewed fiscal support helped to cushion the impact. Public debt relative to GDP has declined below its 2019 level, but rapid population ageing and strong investment needs are increasing fiscal pressures.

The State of Mediterranean and Black Sea Fisheries 2023

This 2023 special edition of the GFCM’s flagship publication, The State of Mediterranean and Black Sea Fisheries, updates statistics and figures on the status and management of fisheries in the region and includes, for the first time, an overview of regional indicators on the aquaculture sector in Mediterranean and Black Sea countries. It aims to deliver useful and reliable data to a wide audience as an essential source of information on fisheries and aquaculture in the region and a key tool to support decision-making and monitor progress towards the goals set by the GFCM. The fifth instalment of its series, this publication covers topics of regional importance in the fisheries and aquaculture sectors over the course of seven chapters. Fleet status and capture fisheries production are the focus of the first two chapters, which include figures on fishing capacity and landings by country and fleet segment. Chapter three captures the human dimension behind the region’s fisheries through socioeconomic data on revenue and employment. In chapter four, information on discards is updated and categorized for the main fishing fleets in each GFCM subregion, along with details on the species that make up this important component of the catch. Chapter five reviews the status of

fisheries resources, especially regional trends and trends in priority species, while chapter seven summarizes relevant existing and new adopted measures towards the sustainability of key fisheries and the protection of vulnerable ecosystems. Aquaculture is included in this edition for the first time, described in terms of volume and socioeconomic indicators in chapter six.

World Economic Outlook, October 2023

The latest World Economic Outlook reports signs that policy tightening is starting to cool activity despite core inflation proving persistent. Risks are more balanced as banking sector stress has receded, but they remain tilted to the downside. Monetary policy should stay the course to bring inflation to target, while fiscal consolidation is needed to tackle soaring debts. Structural reforms are crucial to revive medium-term growth prospects amid constrained policy space.

OECD Economic Surveys: Brazil 2023

The Brazilian economy rebounded strongly after the Covid-19 pandemic. Resilient domestic demand, supported by social transfers, continues to drive growth. Inflation is decreasing, providing room for further monetary policy easing. However, public debt remains high, calling for a credible fiscal framework and improved spending efficiency.

Kurukshetra June 2023 (English)

A monthly published in Hindi and English. The journal is devoted to all aspects of rural reconstruction and village democracy. The journal carries educative and informative articles on rural development and is useful for scholars, academicians and students preparing for civil services and other competitive examinations.

Exploring AutoCAD Civil 3D 2023, 12th Edition

Exploring AutoCAD Civil 3D 2023 book introduces the users to the powerful Building Information Modeling (BIM) solution, AutoCAD Civil 3D. The BIM solution in AutoCAD Civil 3D helps create and visualize a coordinated data model. This data model can then be used to design and analyze a civil engineering project for its optimum and cost-effective performance. This book has been written considering the needs of the professionals such as engineers, surveyors, watershed and storm water analysts, land developers and CAD technicians, who wish to learn and explore the usage and abilities of AutoCAD Civil 3D in their respective domains. This book provides comprehensive text and graphical representation to explain various concepts and procedures required in designing solutions for various infrastructure works. The accompanying tutorials and exercises, which relate to the real world projects, help you better understand the tools in AutoCAD Civil 3D. This book consists of 13 chapters covering Points Creations, Surface Creations, Surface Analysis, Corridor Modeling, Pipe Networks, Pressure Networks, and Parcels and so on. The chapters are organized in a pedagogical sequence to help users understand the concepts easily. Each chapter begins with a command section that provides a detailed explanation of the commands and tools in AutoCAD Civil 3D. The chapters in this book cover the basic as well as advanced concepts in AutoCAD Civil 3D such as COGO points, surfaces and surface analysis, alignments, profiles, sections, grading, assemblies, corridor modeling, earthwork calculations, and pipe and pressure networks. This edition covers the description of all enhancements and newly introduced tools. Salient Features Consists of 13 chapters that are arranged in pedagogical sequence. Comprehensive coverage of concepts and tools covering the scope of the software. Contains 812 pages, 50 tutorials, about 26 exercises, and more than 770 illustrations. Real-world engineering projects used in tutorials, exercises, & explaining various tools and concepts. Step-by-step examples to guide the users through the learning process. Additional information provided throughout the book in the form of tips and notes. Self-Evaluation test, Review Questions, and Exercises at the end of each chapter so that the users can assess their knowledge. Table of Contents Chapter 1: Introduction to AutoCAD Civil 3D 2023 Chapter 2: Working with Points Chapter 3: Working with Surfaces Chapter 4: Surface Volumes and Analysis

Chapter 5: Alignments Chapter 6: Working with Profiles Chapter 7: Working with Assemblies and Subassemblies Chapter 8: Working with Corridors and Parcels Chapter 9: Sample Lines, Sections, and Quantity Takeoffs Chapter 10: Feature Lines and Grading Chapter 11: Pipe Networks Chapter 12: Pressure Networks Chapter 13: Working with Plan Production Tools, and Data Shortcuts Index

Antifaschistische Strategie 1923/2023

Mit Beiträgen von: Ulrich Schneider (FIR), Anne Rieger (Österreich), Andreas Buderus, Matthias Fritz, Ulrich Sander, Maria Krüger, Gerhard Feldbauer, Erica Caines (USA), Joe Lauria (USA); Rezensionen zum Thema Weitere Themen: Atomkriegsgefahr (Scott Ritter), Brasilien (Miguel Torres/ João Carlos Juruna), Mediengesetz in der Ukraine (Maxim Goldarb), »Holodomor«-im Bundestag (Rainer Dörrenbecher), Kontinuität deutscher Außenpolitik (Rudolph Bauer), Vergessener Massenmord in Indonesien (John Roosa), Polykrise und die Linke (Peter Mertens)

713 to the 2023's era

No one was ever bounded, and no one was ever burning, the disappearance gave birth to mythologies to overcome the truth, but the truth is inevitable and there is no room for stopping or slowing down anymore. This is what to be, this starts 2023!

International and Domestic Arbitration in Switzerland

This standard work is one of the leading authorities on Swiss arbitration law. The fully revised and supplemented Fifth Edition provides up-to-date information on the law and practice of international and domestic arbitration in Switzerland. The book provides a comprehensive analysis of all relevant aspects of arbitration, including the concept of arbitration, the sources of arbitration, arbitrability, and all aspects concerning the validity and scope of the arbitration agreement and its autonomy. Other topics include competence-competence, the jurisdiction of the arbitral tribunal, the arbitral procedure, the effects and limits of arbitral awards, setting aside as well as the recognition and enforcement of awards in Switzerland. Frequently referred to in the case law of the Swiss Federal Supreme Court, the book is an indispensable tool for legal scholars dealing in depth with a controversial issue. At the same time, it is an invaluable and user-friendly source of information and reference for arbitration practitioners in Switzerland and abroad. The book's appendices contain useful supplementary materials, including a detailed table of cases and an accurate translation of the arbitration provisions of the Swiss Private International Law Act and the Swiss Code of Civil Procedure.

c't Daten schützen 2023

Im neuen Sonderheft \"c't Daten schützen\" zeigen wir Ihnen, welche Fehler Sie bei der Datensicherung vermeiden sollten, geben Ihnen handfeste Handlungsanweisungen, wie Sie Ihre Arbeit und den Datenschutz miteinander vereinen können und sich dabei gleichzeitig vor Angriffen von Cybergangstern schützen. Zusätzlich erhalten Sie einen heise-Academy-Videokurs \"Informationssicherheit im Unternehmen\" im Wert von 99 Euro.

22nd European Conference on e-Learning

These proceedings represent the work of contributors to the 22nd European Conference on e-Learning (ECEL 2023), hosted by University of South Africa, Pretoria, South Africa on 26-27 October 2023. The Conference Co-Chairs Associate Professor Sarah Jane Johnston and Associate Professor Shawren Singh both from University of South Africa, Pretoria, South Africa. ECEL is now a well-established event on the academic research calendar and now in its 22nd year the key aim remains the opportunity for participants to

share ideas and meet the people who hold them. The scope of papers will ensure an interesting two days. The subjects covered illustrate the wide range of topics that fall into this important and ever-growing area of research. It is especially relevant that the conference is being hosted by UNISA this year as the university celebrates its 150th anniversary. UNISA has been a pioneer in first distance and now e-Learning. The conference will also host the final round of the 9th e-Learning Excellence Awards where innovate case histories will be presented. The opening keynote presentation is given by Professor Thenjiwe Meyiwa, Vice Principal for the Research, Postgraduate Studies, Innovation and Commercialisation at University of South Africa who will speak on, “The Role of African Feminisms in Shaping a Sustainable Future of Being and Learning”. An afternoon keynote on Thursday will be made by Dr Zolile Martin Mguda, University of South Africa on the topic of “ChatGPT: The first year”. The second day of the conference will open with an address by Dr Isabel Tarling, MD, Limina, South Africa with the title “Developing Digital Standards for Learning and Teaching in South Africa’s Schools”. With an initial submission of 100 abstracts, after the double blind, peer review process there are 45 Academic research papers, 3 PhD research papers and 1 Masters Research paper published in these Conference Proceedings. These papers represent research from Belgium, Canada, Chile, Czech Republic, France, Germany, Ghana, Greece, Hong Kong, Ireland, Japan, Malaysia, Mozambique, Norway, Oman, Perú, Poland, Portugal, Romania, Singapore, South Africa, Sri Lanka, Sweden, Switzerland, Turkey and the United Kingdom.

Annals of the Astronomical Observatory of Harvard College

Authoritative, forward-thinking resource presenting strategies and technologies to mitigate water scarcity and improve water quality Founded on the idea that conventional procedures are unsuccessful in providing a solution to water security as a whole, Water Scarcity Management delivers integrated, cross-cutting approaches to solve some of the biggest problems that the world faces in terms of freshwater through a nature-based approach. Written by a team of authors and leaders in the field of environmental science and technology, this book explores topics including: Water availability, management, governance, and quality and policy development in the Anthropocene New global trends of water management and wastewater reuse, as well as novel integrated strategies and technologies for the mitigation of biotic and abiotic emerging contaminants Water stress due to decades of poor management, over-extraction of groundwater, and contamination of freshwater supplies Rising demand of freshwater due to rapid population growth, urbanization, and increasing needs across sectors including agriculture, industry, and energy Water Scarcity Management is a timely, essential, forward-thinking resource on the subject for environmental engineers, microbiologists, environmental scientists, policy developers and modelers seeking to integrate findings on water scarcity, availability, management, reuse, conservation, and treatment into policy development.

Annals of the Astronomical Observatory of Harvard College

Artificial intelligence (AI) has revolutionized many areas of medicine and is increasingly being embraced. This book focuses on the integral role of AI in radiology, shedding light on how this technology can enhance patient care and streamline professional workflows. This book reviews, explains, and contextualizes some of the most current, practical, and relevant developments in artificial intelligence and deep learning in radiology and medical image analysis. AI for Radiology presents a balanced viewpoint of the impact of AI in these fields, underscoring that AI technologies are not intended to replace radiologists but rather to augment their capabilities, freeing professionals to focus on more complex cases. This book guides readers from the basic principles of AI to their practical applications in radiology, moving from the role of data in AI to the ethical and regulatory considerations of using AI in radiology and concluding with a selection of resources for further exploration. This book has been crafted with a diverse readership in mind. It is a valuable asset for medical professionals eager to stay up to date with AI developments, computer scientists curious about AI’s clinical applications, and anyone interested in the intersection of healthcare and technology.

Water Scarcity Management

This book includes high-quality research papers presented at the Seventh International Conference on Innovative Computing and Communication (ICICC 2024), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 16–17 February 2024. Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

AI for Radiology

\"Food and Industry 5.0: Transforming the Food System for a Sustainable Future\" offers a groundbreaking exploration of cutting-edge technologies reshaping the global food landscape. This comprehensive volume delves into innovations driving the fifth industrial revolution in food production and distribution. The book examines nanotechnology and biosensor applications in food processing and safety, analyzing their potential to revolutionize quality monitoring, extend shelf life, and enhance traceability. It unveils the transformative power of artificial intelligence and machine learning across the food value chain, from plant disease detection to sustainable poultry production. Significant attention is given to the integration of Internet of Things (IoT) and digital twin technology in agriculture and food supply chains, offering insights into real-time monitoring, predictive maintenance, and optimization techniques. The text explores robotics in food manufacturing, emphasizing advancements in efficiency, waste reduction, and safety. Crucial methodologies for quantifying and analyzing complex agricultural data are addressed, presenting both regression and classification approaches in precision agriculture. Sustainability is a key focus, with chapters examining nano-fertilizers, soil amendments, and AI-integrated crop systems designed to advance UN Sustainable Development Goals. Blockchain technology's role in enhancing food traceability and safety is investigated, complete with real-world case studies. The book addresses the complex regulatory landscape surrounding Industry 5.0 technologies, including waste management in hospitality and ethical considerations of AI deployment. Concluding chapters offer forward-looking analyses of emerging trends in dairy, diet, and hospitality subsectors. This meticulously researched volume employs a wide array of methodologies, from experimental studies to economic modeling and qualitative research. \"Food and Industry 5.0\" is an indispensable resource for food scientists, agricultural researchers, computer scientists, policymakers, and industry professionals. By bridging multiple disciplines, it provides a scientifically rigorous, data-driven roadmap for creating a more sustainable, efficient, and ethical global food system.

Innovative Computing and Communications

This book discusses the impact of the COVID-19 pandemic and the Russian invasion of Ukraine on the European Union’s climate and energy policy. By examining the positions of the various actors involved, the book analyses whether the COVID-19 pandemic and the Russian invasion of Ukraine has contributed to greater unity, decarbonisation, and security of energy supply, and if not, whether these crises prompted member states to turn inwards and opt for national solutions to climate and energy challenges. It thus provides a new outlook for EU energy policy in relation to the experience of the two crises. This book will be of key interest to scholars, students and practitioners of climate and energy policy, energy security, EU policy, and more broadly to energy politics, European integration and European Union governance.

Food and Industry 5.0: Transforming the Food System for a Sustainable Future

This book comprehensively discusses basic data-driven intelligent systems, the methods for processing the data, and cloud computing with artificial intelligence. It presents fundamental and advanced techniques used for handling large user data, and for the data stored in the cloud. It further covers data-driven decision-making for smart logistics and manufacturing systems, network security, and privacy issues in cloud computing. This book: Discusses intelligent systems and cloud computing with the help of artificial intelligence and machine learning. Showcases the importance of machine learning and deep learning in data-driven and cloud-based applications to improve their capabilities and intelligence. Presents the latest

developments in data-driven and cloud applications with respect to their design and architecture. Covers artificial intelligence methods along with their experimental result analysis through data processing tools. Presents the advent of machine learning, deep learning, and reinforcement technique for cloud computing to provide cost-effective and efficient services. The text will be useful for senior undergraduate, graduate students, and academic researchers in diverse fields including electrical engineering, electronics and communications engineering, computer engineering, manufacturing engineering, and production engineering.

EU Energy and Climate Policy after COVID-19 and the Invasion of Ukraine

This book is the largest referral for Turkish companies.

Data-Driven Systems and Intelligent Applications

Declared a terrorist menace yet voted into government in a free election, Hamas then used its Gaza power base to launch cross-border attacks that scorched Israel and transformed the dynamics of the Israeli-Palestinian conflict. How did a small Palestinian offshoot of the Muslim Brotherhood grow to challenge long-established rivals such as the PLO? Who supports Hamas and what is its agenda? How powerful has it become and how strong will it remain? With decades of combined experience researching and reporting from the occupied West Bank and Gaza, Jerusalem, and around the Middle East, Beverley Milton-Edwards and Stephen Farrell gained unrivalled access to Hamas. Drawing on years of frontline reporting and interviews with members of the group's founding generation and their successors who now lead it, they trace Hamas' path to the shocking attacks of 07 October 2023 and their devastating aftermath. Its critics believe Hamas must be ousted to reach a solution to the Middle East conflict. Hamas's supporters believe it is the solution. Nobody now believes it can be ignored. Based on their landmark 2010 study which has been thoroughly revised and updated, this book brings the story of Hamas up to the present and will be essential reading for anyone who wants to understand the Middle East today.

06 Company Book - PAPER AND STATIONERY

The 362 full papers, 37 short papers and 2 PHD showcase included in this book were carefully reviewed and selected from 1043 submissions. In addition, the conference consisted of 58 workshops, focusing on very topical issues of importance to science, technology and society: from new mathematical approaches for solving complex computational systems, to information and knowledge in the Internet of Things, new statistical and optimization methods, several Artificial Intelligence approaches, sustainability issues, smart cities and related technologies.

HAMAS

This book offers an overview of the recent disruptives technologies and their application in the new Society 5.0 for better human life. The content provides researchers by new trends in blockchain, IA, and big data applied to several fields related to smart cities and Society 5.0 such as health care, education, finance, mobility, logistics, and quality of life. It is an opportunity for researchers and practitioners to present and discuss their most recent research results, innovations, experiences, concerns, challenges, and trends about the application of disruptive technologies applied to Society 5.0. The aim of the book is to focus on how disruptive technologies can change the way we perform and how it creates more opportunities with a special focus on AI, blockchain, big data, etc. The idea behind this book is to focus on solutions based on disruptive technologies that can face the challenges of the developing countries. We will shed the light on different sectorssuch as education, agriculture, industry, transportation, environment, energy, health care, etc. We will discuss the challenges that the emerging countries face in these sectors and provide disruptive technologies based solutions to them. This book also introduces success stories of disruptive technologies-based solutions and their impact on the lives of people in developing countries.

Computational Science and Its Applications – ICCSA 2025 Workshops

This book is the largest referral for Turkish companies.

Emerging Disruptive Technologies for Society 5.0 in Developing Countries

Develop a deep understanding of Kubernetes and other orchestration systems by building your own with Go and the Docker API. Orchestration systems like Kubernetes can seem like a black box: you deploy to the cloud and it magically handles everything you need. That might seem perfect—until something goes wrong and you don’t know how to find and fix your problems. Build an Orchestrator in Go (From Scratch) reveals the inner workings of orchestration frameworks by guiding you through creating your own. In Build an Orchestrator in Go (From Scratch) you will learn how to: Identify the components that make up any orchestration system Schedule containers on to worker nodes Start and stop containers using the Docker API Manage a cluster of worker nodes using a simple API Work with algorithms pioneered by Google’s Borg Demystify orchestration systems like Kubernetes and Nomad Build an Orchestrator in Go (From Scratch) explains each stage of creating an orchestrator with diagrams, step-by-step instructions, and detailed Go code samples. Don’t worry if you’re not a Go expert. The book’s code is optimized for simplicity and readability, and its key concepts are easy to implement in any language. You’ll learn the foundational principles of these frameworks, and even how to manage your orchestrator with a command line interface. About the technology Orchestration frameworks like Kubernetes and Nomad radically simplify managing containerized applications. Building an orchestrator from the ground up gives you deep insight into deploying and scaling containers, clusters, pods, and other components of modern distributed systems. This book guides you step by step as you create your own orchestrator—from scratch. About the book Build an Orchestrator in Go (From Scratch) gives you an inside-out perspective on orchestration frameworks and the low-level operation of distributed containerized applications. It takes you on a fascinating journey building a simple-but-useful orchestrator using the Docker API and Go SDK. As you go, you’ll get a guru-level understanding of Kubernetes, along with a pattern you can follow when you need to create your own custom orchestration solutions. What's inside Schedule containers on worker nodes Start and stop containers using the Docker API Manage a cluster of worker nodes using a simple API Work with algorithms pioneered by Google’s Borg About the reader For software engineers, operations professionals, and SREs. This book’s simple Go code is accessible to all programmers. About the author Tim Boring has 20+ years of experience in software engineering. For most of that time he has worked with orchestration systems, including Borg, Kubernetes, and Nomad. Table of Contents PART 1 INTRODUCTION 1 What is an orchestrator? 2 From mental model to skeleton code 3 Hanging some flesh on the task skeleton PART 2 WORKER 4 Workers of the Cube, unite! 5 An API for the worker 6 Metrics PART 3 MANAGER 7 The manager enters the room 8 An API for the manager 9 What could possibly go wrong? PART 4 REFACTORINGS 10 Implementing a more sophisticated scheduler 11 Implementing persistent storage for tasks PART 5 CLI 12 Building a command-line interface 13 Now what?

68 Company Book - PLASTIC AND RUBBER

A comparative analysis of Islamist groups' ideological positioning toward nation-state, secularism, and democracy across different countries in the MENA region. Authoritarian reassertion following the Arab uprisings in the Middle East has restrained Islamists' political participation and challenged their survival as both opposition groups and rulers. In light of national sociopolitical variations across the region, this book explores Islamists' means of adaptation and resilience in the face of this political exclusion, unpacking Islamists' sociopolitical persistence and ideological sustainability. In doing so this book sheds light on the following questions: How did Islamists adapt to contextual restrictions in terms of repression and stigmatization? How did the Arab uprisings impact their internal debates, ideological revisions, and reconsideration of tools of action? Individual chapters explore similarities and divergences among Islamist groups and parties in terms of ideological affiliations, means of survival and political participation strategies, drawing on comparative cases from across the MENA region. Examples include the Muslim Brotherhood in Egypt, Al-Nahda in Tunisia, the AKP (Justice and Development Party) in Turkey, Hezbollah in Lebanon,

Hamas in Palestine, and the Islamic State in Syria and Iraq. These studies engage critically with conceptual debates related to Islamism, post-Islamism, Jihadist Islam, and the Islamic nation/community (ummah) to determine the trajectory of political Islam in the MENA.

Build an Orchestrator in Go (From Scratch)

This book provides a comprehensive, empirically grounded exploration of how Generative AI is reshaping the landscape of software development. It emphasizes the empirical evaluation of Generative AI tools in real-world scenarios, offering insights into their practical efficacy, limitations, and impact. By presenting case studies, surveys, and interviews from various software development contexts, the book offers a global perspective on the integration of Generative AI, highlighting how these advanced tools are adapted to and influence diverse cultural, organizational, and technological environments. This book is structured to provide a comprehensive understanding of Generative AI and its transformative impact on the field of software engineering. The book is divided into five parts, each focusing on different aspects of Generative AI in software development. As an introduction, Part 1 presents the fundamentals of Generative AI adoption. Part 2 is a collection of empirical studies and delves into the practical aspects of integrating Generative AI tools in software engineering, with a focus on patterns, methodologies, and comparative analyses. Next, Part 3 presents case studies that showcase the application and impact of Generative AI in various software development contexts. Part 4 then examines how Generative AI is reshaping software engineering processes, from collaboration and workflow to management and agile development. Finally, Part 5 looks towards the future, exploring emerging trends, future directions, and the role of education in the context of Generative AI. The book offers diverse perspectives as it compiles research and experiences from various countries and software development environments. It also offers non-technical discussions about Generative AI in management, teamwork, business and education. This way, it is intended for both researchers in software engineering and for professionals in industry who want to learn about the impactof Generative AI on software development.

Political Islam at the Crossroads

Data Analytics for Intelligent Transportation Systems provides in-depth coverage of data-enabled methods for analyzing intelligent transportation systems (ITS), including the tools needed to implement these methods using big data analytics and other computing techniques. The book examines the major characteristics of connected transportation systems, along with the fundamental concepts of how to analyze the data they produce. It explores collecting, archiving, processing, and distributing the data, designing data infrastructures, data management and delivery systems, and the required hardware and software technologies. It presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies. All fundamentals/concepts presented in this book are explained in the context of ITS. Users will learn everything from the basics of different ITS data types and characteristics to how to evaluate alternative data analytics for different ITS applications. They will discover how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications, along with key safety and environmental applications for both commercial and passenger vehicles, data privacy and security issues, and the role of social media data in traffic planning. Data Analytics for Intelligent Transportation Systems will prepare an educated ITS workforce and tool builders to make the vision for safe, reliable, and environmentally sustainable intelligent transportation systems a reality. It serves as a primary or supplemental textbook for upper-level undergraduate and graduate ITS courses and a valuable reference for ITS practitioners. - Utilizes real ITS examples to facilitate a quicker grasp of materials presented - Contains contributors from both leading academic and commercial domains - Explains how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications - Includes exercise problems in each chapter to help readers apply and master the learned fundamentals, concepts, and techniques - New to the second edition: Two new chapters on Quantum Computing in Data Analytics and Society and Environment in ITS Data Analytics

Generative AI for Effective Software Development

This handbook-style edited volume discusses historical, but predominantly current political, economic, and societal trends in Central Asia comprising Kazakhstan, Uzbekistan, Kyrgyzstan, Tajikistan, and Turkmenistan. The five countries exhibit many cultural and historical commonalities and face similar internal and external challenges. Despite different transformation paths and frequent intra-regional tensions, a common regional identity has emerged in the countries since gaining their independence in 1991. Besides covering their political systems, a variety of topics such as human rights, media, terrorism, and civil society are addressed. As well, bilateral relations with seven external actors are examined. Lastly, the authors explore the opportunities and limitations of institutionalized regional cooperation in various fields of action.

Data Analytics for Intelligent Transportation Systems

The OECD Territorial Review of the Brussels-Capital Region, Belgium, provides an in-depth assessment of the trends, challenges and opportunities for sustainable and inclusive urban development in the region.

Central Asia in a Multipolar World

If there was any question before, there is no longer a question today: inequality, discrimination, poverty, and mobility are prominent national issues. The notion of \"The American Dream\" has been sold to generations of young Americans as the idea that working hard and following your dreams will allow you to break through any barriers in your path and inevitably lead to success. However, recent findings on inequality, discrimination, poverty, and mobility show that \"The American Reality\" is very different. The third edition of this introductory-level text has been completely revised to bring students up to date with current economic thinking on these issues. With an emphasis on data, theory, and policy, this book tackles each issue by exploring three key questions in each chapter: What does the data tell us about what has been happening to the American economy? What are the economic theories needed to understand what has been happening? What are the policy ideas and controversies associated with these economic problems? Key controversies are highlighted in each chapter to drive classroom discussion, and end-of-chapter questions develop student understanding. The book will also be accompanied by digital supplements in the form of PowerPoint slides for each chapter. This clearly written text is ideally suited to a wide variety of courses on contemporary economic conditions, inequality, and social economics in the United States.

OECD Territorial Reviews: Brussels-Capital Region, Belgium

Prepare to compassionately care for the aging population with Gerontologic Nursing, Seventh Edition, uniquely known for its comprehensive coverage of the most common medical-surgical problems associated with older adults. Organized by body system for easy retrieval of information, it delves into health promotion and both basic and complex gerontologic concepts and issues. A disorder-focused approach addresses nursing management and care coordination across health care delivery settings. This text emphasizes topics such as nutrition, chronic illness, emergency treatment, patient teaching, home care, and end-of-life care — and provides you with a solid foundation to meet the future challenges of providing nursing care for the vast and growing older adult population. - NEW! Next Generation NCLEX® (NGN)-style cases and questions are included in select clinical chapters - NEW! Aging theory and nursing theory content promotes understanding of the relationship between theory and practice - NEW! Cultural content integrated throughout the text facilitates culturally congruent care practices - UPDATED! Completely revised chapters ensure content is relevant and practice-related for the gerontologic nurse - Body system chapters include an overview of age-related changes in structure and function - Current standards and guidelines are reflected throughout to ensure you are learning the most up-to-date information - Essential nursing care guidelines are presented in each clinical chapter - Psychologic and sociocultural issues and aspects of older adult care are integrated throughout the text - Clinical judgment questions at the end of chapters challenge you to apply your

knowledge and clinical judgment skills - Helpful boxes throughout the text highlight key information, including: - Nursing Care Plan - Patient/Family Teaching - Health Promotion/Illness Prevention - Nutritional Considerations - Evidence-Based Practice - Emergency Treatment - Home Care - Key points and summary sections at the end of chapters reinforce the most important concepts and information - One Next Generation NCLEX® (NGN)-style case/question added to each clinical chapter - Adding content on culturally congruent care to Socioeconomic and Environmental Influences chapter - Expanded content on Pressure Injuries Expanded content on Infection & Inflammation

The Economics of Inequality

Zwischenwelten von Realität und Fiktion – Illusion in der zeitgenössischen Kunst Täuschung, Simulation, optische Illusionen – wie beeinflusst Kunst unsere Wahrnehmung? Die Publikation Illusions. Contemporary Art Between Fiction and Reality dokumentiert drei wegweisende Ausstellungen der KAI 10 | Arthena Foundation und beleuchtet das Spannungsfeld zwischen Realität und Fiktion. Von illusionistischer Malerei, die das Auge täuscht (Trompe-l'œil), über digitale Simulationen bis hin zum Einfluss künstlicher Intelligenz auf die Bildproduktion hinterfragt das Buch die Mechanismen der Illusion in der zeitgenössischen Kunst. Essays renommierter Autor*innen setzen das Thema in einen breiteren gesellschaftlichen Kontext und eröffnen neue Perspektiven auf das Spiel mit Wahrnehmung und Wirklichkeit. Diese zweisprachige Ausgabe (Deutsch/Englisch) ist ein unverzichtbares Werk für Kunstinteressierte, die sich mit der Wechselwirkung von Kunst, Technologie und Wahrnehmung auseinandersetzen möchten. Highlights: Drei visionäre Ausstellungen – Phantoms and Other Illusions, Bodies, Grids and Ecstasy, Frozen Mirrors Illusion & KI in der Kunst – Einfluss digitaler Technologien und künstlicher Intelligenz auf die Bildproduktion Bilinguale Ausgabe (Deutsch/Englisch) – Ideal für ein internationales Publikum und Fachkreise

Gerontologic Nursing - E-Book

This book focuses on managing competing memories of disputed territories in Eastern and Central Europe, the Caucasus and South Asia. Through an empirical, practice-oriented approach it explores memory work undertaken by institutions and social actors in different cultural and national settings. The book identifies examples of agonistic engagement with the memory of disputed territories that have the potential to build trust-based relationships between divided communities and overcome antagonistic separation through mutually beneficial joint enterprises. The volume also highlights blind spots and shortcomings of the agonistic approach by focusing on socio-political conditions that might hinder or prevent the broader dissemination of this memory mode.

Illusions

Robert Powell, a founding Board member of the Scientific Coalition for UAP Studies, has studied the UFO subject for 17 years. His work is encapsulated in UFOs: A Scientist Explains What We Know (And Don’t Know) which provides a scientific rationale for the reality of non-terrestrial craft that are intelligently controlled. Powell begins his book by familiarizing the reader with the history of UFOs and he identifies the more enigmatic and interesting UFO sightings. He examines the characteristics of these sightings that argue against a prosaic explanation: extreme acceleration, electromagnetic interference, bending light, no obvious propulsion mechanisms, and a lack of interaction with the atmosphere. Powell discusses the recent events that have caused our government to change the term from UFO to UAP. Included is information never before released indicating the government possesses not just two videos but five videos from 2015 of UFOs operating in the vicinity of the USS Roosevelt nuclear aircraft carrier. Powell’s later chapters in the book discuss the extraterrestrial hypothesis considering the thousands of exoplanets that have been discovered in the last twenty years. Powell challenges the reader to consider all the implications that must be considered if intelligent life discovers us first. He looks at how we as individuals and as a society react to UFOs. He documents actions taken by our military that include instances when we have fired on UFOs. Powell argues that it is time for a change in the study of UFOs. The phenomenon has been with us for 75 years and we have

learned very little as the decades have passed. The author makes the case for what needs to be done going forward. The solution he proposes will require a paradigm shift in our thinking and his book provides the information needed to understand that paradigm shift.

Pathways to Agonism

In Examining Net Zero, authors delve into seven case studies illustrating economic and political issues tied to climate change and the transition to sustainable systems, addressing challenges and progress towards the UN Sustainable Development Goals.

PPI Detailed Report

This book analyses the evolution of India's foreign policy towards Central Asia after the end of the Cold War. Focusing on the development of India's foreign policy towards Central Asia between 1991 and 2020, this book investigates the explanatory and intervening variables of the policy towards the region to identify its goals, assumptions, motivations and instruments. The preliminary assumption is that India's foreign policy towards Central Asia has evolved after the Cold War from a passive approach to an active participant in Central Asian security, economic and socio-cultural spheres. This is also seen due to the emergence of the five Central Asian countries as independent states, which have a tremendous strategic significance due to their geographical location, huge hydrocarbon reserve and potential economic opportunities. India expanded its policy to the 'Extended Neighbourhood,' adding East, Central and West Asia to the existing South Asian neighbourhood. Since then, India has been engaging with the region considering the growing geostrategic and geo-economic significance of the region and using the available foreign policy instruments. This book presents a comprehensive assessment of India's foreign policy behaviour evolution with proper analysis of the explanatory (external) and intervening (internal) variables that influence India's behaviours towards the region. It shows that India also aims to be a very influential power in Central Asia. This book will be an excellent resource for students and researchers of area and global studies, international relations, Asian Politics and South and Central Asia. The Open Access version of this book, available at http://www.taylorfrancis.com, has been made available under a Creative Commons [Attribution-Non Commercial-No Derivatives (CC-BY-NC-ND)] 4.0 license.

UFOs

The economic recovery is strengthening, as a successful vaccination campaign and recovery from COVID-related restrictions dominate headwinds from the worsening international economic environment. Growth is projected at 3.8 percent this year, rising to 5 percent in 2023 as the first liquefied natural gas (LNG) project enters production. Food and fuel prices have pushed inflation to double digits. Monetary policy has been proactive, including a further 200bps increase in the policy rate in September 2022. Credit conditions remain tight, while financial sector buffers built before the pandemic have underpinned banking sector resilience. Fiscal outcomes have been in line with expectations. The current account deficit is lower than forecast (though it still widens due to LNG infrastructure imports), as exports have been stronger than anticipated. International reserves have declined faster than anticipated due to higher imported fuel prices.

Examining Net Zero

India and Central Asia in the Post-Cold War Era

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