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Xu Bing *Aural Architecture in Byzantium: Music, Acoustics, and Ritual* **Creatively Teach the Common Core Literacy Standards With Technology** EU Competition Law, Data Protection and Online Platforms: Data as Essential Facility **Greek Epigram from the Hellenistic to the Early Byzantine Era** *The 3rd ASEAN Reader* **Substrate and Adstrate Reinventing Detroit** Institutional Supports for the International Rule of Law **Computational Modeling and Data Analysis in COVID-19 Research The Art of Xu Bing Do Think Tanks Matter? Third Edition Internet Technologies and Information Services, 2nd Edition White House Warriors: How the National Security Council Transformed the American Way of War** *Computer Supported Cooperative Work and Social Computing Book from the Ground* Women of Abstract Expressionism *2013 International Conference on Advanced Education Technology and Management Science(AETMS2013)* **Pretrained Transformers for Text Ranking** *Hedge Funds* **Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications Free Search Tools for Finding Research Information** Carbon Nanomaterials Based on Graphene Nanosheets **Dave Bing Computational Linguistics and Intelligent Text Processing Above sea Asia's New Battlefield Enabling the Internet of Things Computer Vision Power, Law, and Maritime Order in the South China Sea** Rethinking Library Technical Services **Windows 10 All-In-One For Dummies Handbook of the History of General Topology Chinese Politics and Foreign Policy under Xi Jinping Public Private Partnerships in Transport** Knowledge Science, Engineering and Management **IBPS RRB Officer Scale 1 & Office Assistant Prelim & Main 19 Year-wise Solved Papers (2013-19)** *#Republic* Lifelong Machine Learning *Monetary Policy and Macroprudential Regulation with Financial Frictions*

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EU Competition Law, Data Protection and Online Platforms: Data as Essential Facility Aug 02 2022 All are agreed that the digital economy contributes to a dynamic evolution of markets and competition. Nonetheless, concerns are increasingly raised about the market dominance of a few key players. Because these companies hold the power to drive rivals out of business, regulators have begun to seek scope for competition enforcement in cases where companies claim that withholding data is needed to satisfy customers and cut costs. This book is the first focus on how competition law enforcement tools can be applied to refusals of dominant firms to give access data on online platforms such as search engines, social networks, and e-commerce platforms – commonly referred to as the 'gatekeepers' of the Internet. The question arises whether the denial of a dominant firm to grant competitors access to its data could constitute a 'refusal to deal' and lead to competition law liability under the so-called 'essential facilities doctrine', according to which firms need access to shared knowledge in order to be able to compete. A possible duty to share data with rivals also brings to the forefront the interaction of competition law with data protection legislation considering that the required information may include personal data of individuals. Building on the refusal to deal concept, and using a multidisciplinary approach, the analysis covers such issues and topics as the following: – data portability; – interoperability; – data as a competitive advantage or entry barrier in digital markets; – market definition and dominance with respect to data; – disruptive versus sustaining innovation; – role of intellectual property regimes; – economic trade-off in essential facilities cases; – relationship of competition enforcement with data protection law and – data-related competition concerns in merger cases. The author draws on a wealth of relevant material, including EU and US decision-making practice, case law, and policy documents, as well as economic and empirical

literature on the link between competition and innovation. The book concludes with a proposed framework for the application of the essential facilities doctrine to potential forms of abuse of dominance relating to data. In addition, it makes suggestions as to how data protection interests can be integrated into competition policy. An invaluable contribution to ongoing academic and policy discussions about how data-related competition concerns should be addressed under competition law, the analysis clearly demonstrates how existing competition tools for market definition and assessment of dominance can be applied to online platforms. It will be of immeasurable value to the many jurists, business persons, and academics concerned with this very timely subject.

Creatively Teach the Common Core Literacy Standards With Technology Sep 03 2022 Let technology pave the way to Common Core success. Engage your students by delving into the Common Core ELA standards with the tools they use the most. As you explore the creative road to academic success, with the Common Core ELA and literacy standards—you will turn your classroom into a student-centered learning environment that fosters collaboration, individualizes instruction, and cultivates technological literacy. Features include: Specific recommendations for free apps and tech tools that support the Common Core Step-by-step guidelines to breaking down standards by grade and subject Teacher-tested, research-supported lesson ideas and strategies Replicable resources, including prewriting activities and writing templates Real-life examples

The Art of Xu Bing Dec 26 2021 Xu Bing (born 1955) stands out as a leading figure in the international art world. His works and installation pieces, including Ghosts Pounding the Wall (an acutal rubbing of the Great Wall done at Jinshanling in 1990) and Wu Street (1993), and his ongiong exploration of language have brought worldwide attention to this unassuming provocateur.As a teenager in China during its Cultural Revolution, Xu Bing

experienced the emotional and social upheavals that marked this tumultuous time. He was removed from his "reactionary" parents in Beijing and sent to the provinces to work in a small farming commune as part of Mao Zedong's "rustication" program in 1974. His forced participation in the revolution led him to question and re-examine all he had known, from the meaning and appearance of Chinese characters to the purpose of the Great Wall of China and the value of art and culture.An accomplished calligrapher, printmaker, and art teacher, Xu Bing turned his simultaneous interest in and mistrust of language into an extended examination of Chinese characters. The result was the Book from the Sky, a powerful installation of books, scrolls, and panels for which Xu Bing invented hundreds of new characters in the late 1980s. This uneasy play between the familiar and the unknown--these words without meaning--caused an uproar in Beijing art community and led the Chinese government to censor Xu Bing and his art. The artist emigrated to the United States in 1990.Featuring works in Square Word Calligraphy, his whimsical, invented language, The Art of Xu Bing traces the calligrapher's career and provides illustrations and in-depth descriptions of his works, which have been shown from Finland to Australia and the United States. Author and art historian Britta Erickson leads his insightful look at Xu Bing's development as a significant artist, and Xu Bing himself contributes a fascinating chapter on his life and work.

Monetary Policy and Macroprudential Regulation with Financial Frictions Jun 27 2019 An integrated analysis of how financial frictions can be accounted for in macroeconomic models built to study monetary policy and macroprudential regulation. Since the global financial crisis, there has been a renewed effort to emphasize financial frictions in designing closed- and open-economy macroeconomic models for monetary and macroprudential policy analysis. Drawing on the extensive literature of the past decade as well as his own

contributions, in this book Pierre-Richard Agénor provides a unified set of theoretical and quantitative macroeconomic models with financial frictions to explore issues that have emerged in the wake of the crisis. These include the need to understand better how the financial system amplifies and propagates shocks originating elsewhere in the economy; how it can itself be a source of aggregate fluctuations; the extent to which central banks should account for financial stability considerations in the conduct of monetary policy; whether national central banks and regulators should coordinate their policies to promote macroeconomic and financial stability; and how much countercyclical macroprudential policies should be coordinated at the international level to mitigate financial spillovers across countries. Agénor focuses on upper middle-income countries, which differ from advanced economies in terms of both their structural features (which include a financial sector dominated by banks, weak supervisory capacity, and a high degree of vulnerability to external shocks) and their long-standing policy challenges (such as managing volatile capital flows). Some of the analytical insights and broad policy lessons that can be drawn from the book will be of relevance to advanced economies as well.

Lifelong Machine Learning Jul 29 2019 Lifelong Machine Learning, Second Edition is an introduction to an advanced machine learning paradigm that continuously learns by accumulating past knowledge that it then uses in future learning and problem solving. In contrast, the current dominant machine learning paradigm learns in isolation: given a training dataset, it runs a machine learning algorithm on the dataset to produce a model that is then used in its intended application. It makes no attempt to retain the learned knowledge and use it in subsequent learning. Unlike this isolated system, humans learn effectively with only a few examples precisely because our learning is very knowledge-driven: the knowledge learned in the past helps us learn new things with little data or effort. Lifelong learning aims to emulate this capability, because without it, an AI system cannot be considered truly intelligent. Research in lifelong learning has developed significantly in the relatively short time since the first edition of this book was published. The purpose of this second edition is to expand the definition of lifelong learning, update the content of several chapters, and add a new chapter about continual learning in deep neural networks—which has been actively researched over the past two or three years. A few chapters have also been reorganized to make each of them more coherent for the reader. Moreover, the authors want to propose a unified framework for the research area. Currently, there are several research topics in machine learning that are closely related to lifelong learning—most notably, multi-task learning, transfer learning, and meta-learning—because they also employ the idea of knowledge sharing and transfer. This book brings all these topics under one roof and discusses their similarities and differences. Its goal is to introduce this emerging machine learning paradigm and present a comprehensive survey and review of the

important research results and latest ideas in the area. This book is thus suitable for students, researchers, and practitioners who are interested in machine learning, data mining, natural language processing, or pattern recognition. Lecturers can readily use the book for courses in any of these related fields.

Chinese Politics and Foreign Policy under Xi Jinping Jan 03 2020 This book focuses on China's future under Xi Jinping's authoritarian leadership by examining various facets of the political, economic, social and foreign policy trajectories of contemporary China. It assesses Xi Jinping's power dynamic as the 'core' leader of the Communist Party of China (CPC) and analyses the impact of Xi's signature domestic policies which demonstrate his political authority within the domestic sphere. Moreover, the book presents Xi's pro-active, assertive and action-oriented outlook as a foundation for China's diplomacy in the 'new era'. Bringing together an international set of experts in the field who explore critical facets of China under Xi Jinping that deeply influence the regional as well as the global order, the book investigates the impact of Chinese initiatives such as the grand Belt and Road Initiative (BRI), the Asian Infrastructure Investment Bank (AIIB) and the BRICS New Development Bank (NDB). Importantly, the book illustrates US-China relations and outlines how this relationship will intensify in the post-COVID-19 era, which is poised to be one of the biggest challenges and turning points of the 'Asian Century'. Offering a timely insight into China's future and the trajectory of Xi Jinping's consolidation of power, this book will be of interest to academics in the fields of China Studies, Asian and International Politics and International Relations.

Internet Technologies and Information Services, 2nd Edition Oct 24 2021 The Internet has enabled the convergence of all things information-related. This book provides essential, foundational knowledge of the application of Internet and web technologies in the information and library professions. • Covers a broad spectrum of Internet technologies within the context of knowledge and skills needed by LIS students and professionals in related fields • Identifies key issues related to the use of Internet technologies in libraries and other information organizations • Helps students understand and apply the basic vocabulary and principles of computer software, hardware, and networks • Identifies the various roles that the web, social media, and mobile 2.0 play in the context of libraries and the LIS profession

Computer Supported Cooperative Work and Social Computing Aug 22 2021 The two-volume set CCIS 1491 and 1492 constitutes the refereed post-conferenceproceedings of the 16th CCF Conference on Computer Supported Cooperative Work and Social Computing, ChineseCSCW 2021, held in Xiangtan, China, November 26–28, 2021. The conference was held in a hybrid mode i.e. online and on-site in Xiangtan due to the COVID-19 crisis. The 65 revised full papers and 22 revised short papers were carefully reviewed and selected from 242 submissions. The papers are organized in the following topical sections: Volume I: Collaborative Mechanisms, Models, Approaches, Algorithms and Systems;

Cooperative Evolutionary Computation and Human-like Intelligent Collaboration; Domain-Specific Collaborative Applications; Volume II: Crowd Intelligence and Crowd Cooperative Computing; Social Media and Online Communities.

Substrate and Adstrate Apr 29 2022 This volume provides a large-scale, in-depth analysis of locative structures in Nigerian Pidgin and Ghanaian Pidgin English and compares those structures to locatives in their lexifier, substrate, and adstrate languages. The work draws on new research methods for investigating substrate and adstrate influence in semantics and creole genesis.

The 3rd ASEAN Reader May 31 2022 Over the past two decades, ISEAS has compiled abridged articles that analyse key aspects of Southeast Asia's development and the ASEAN process. The ASEAN Reader was published in 1992 just as the Cold War ended, while The Second ASEAN Reader came in 2003 in the wake of the 1997 Asian crisis and the September 11 attacks in 2001. The past decade has not been spared its share of intense changes, with the rise of China and India bringing new challenges to the region's power equation, and the impact of the 2008 global financial crisis. Despite this, the momentum towards an integrated ASEAN community has been maintained. The articles in The Third ASEAN Reader study the trends and events of recent years, and discuss the immediate future of Southeast Asia.

Enabling the Internet of Things Jul 09 2020 This book offers the first comprehensive view on integrated circuit and system design for the Internet of Things (IoT), and in particular for the tiny nodes at its edge. The authors provide a fresh perspective on how the IoT will evolve based on recent and foreseeable trends in the semiconductor industry, highlighting the key challenges, as well as the opportunities for circuit and system innovation to address them. This book describes what the IoT really means from the design point of view, and how the constraints imposed by applications translate into integrated circuit requirements and design guidelines. Chapter contributions equally come from industry and academia. After providing a system perspective on IoT nodes, this book focuses on state-of-the-art design techniques for IoT applications, encompassing the fundamental sub-systems encountered in Systems on Chip for IoT: ultra-low power digital architectures and circuits low- and zero-leakage memories (including emerging technologies) circuits for hardware security and authentication System on Chip design methodologies on-chip power management and energy harvesting ultra-low power analog interfaces and analog-digital conversion short-range radios miniaturized battery technologies packaging and assembly of IoT integrated systems (on silicon and non-silicon substrates). As a common thread, all chapters conclude with a prospective view on the foreseeable evolution of the related technologies for IoT. The concepts developed throughout the book are exemplified by two IoT node system demonstrations from industry. The unique balance between breadth and depth of this book: enables expert readers quickly to develop an understanding of the specific challenges and state-of-the-art solutions for IoT, as well as their evolution in the foreseeable future

provides non-experts with a comprehensive introduction to integrated circuit design for IoT, and serves as an excellent starting point for further learning, thanks to the broad coverage of topics and selected references makes it very well suited for practicing engineers and scientists working in the hardware and chip design for IoT, and as textbook for senior undergraduate, graduate and postgraduate students (familiar with analog and digital circuits).

Computational Linguistics and Intelligent Text Processing Oct 12 2020 The two-volume set LNCS 10761 + 10762 constitutes revised selected papers from the CICLing 2017 conference which took place in Budapest, Hungary, in April 2017. The total of 90 papers presented in the two volumes was carefully reviewed and selected from numerous submissions. In addition, the proceedings contain 4 invited papers. The papers are organized in the following topical sections: Part I: general; morphology and text segmentation; syntax and parsing; word sense disambiguation; reference and coreference resolution; named entity recognition; semantics and text similarity; information extraction; speech recognition; applications to linguistics and the humanities. Part II: sentiment analysis; opinion mining; author profiling and authorship attribution; social network analysis; machine translation; text summarization; information retrieval and text classification; practical applications.

Free Search Tools for Finding Research Information Jan 15 2021

Public Private Partnerships in Transport Dec 02 2019 Over the last thirty years Public Private Partnerships (PPPs) have been used to deliver transport capital projects and services. PPPs are complex arrangements that require a multi-disciplinary approach in order to assure their success, though research on the subject has been fragmented. This book fills the gap in existing literature by providing insight into these complex arrangements at their various stages of development. Public Private Partnerships in Transport: trends and theory is structured to follow the life-cycle of a PPP project and strikes a balance between theory and practice. Divided into four parts, each section highlights major concerns and offers and array of views and policy recommendations. Parts include context for national implementation, decision models, performance measures and efficiency standards. This book includes an expanded discussion on the findings presented, discussed and analysed at the closing event of the COST Action TU1001 network on the topic of PPPs in transport. The result will be of significant interest to the academic community, policy makers and practitioners.

Aural Architecture in Byzantium: Music, Acoustics, and Ritual Oct 04 2022 Emerging from the challenge to reconstruct sonic and spatial experiences of the deep past, this multidisciplinary collection of ten essays explores the intersection of liturgy, acoustics, and art in the churches of Constantinople, Jerusalem, Rome and Armenia, and reflects on the role digital technology can play in re-creating aspects of the sensually rich performance of the divine word. Engaging the material fabric of the buildings in relationship

to the liturgical ritual, the book studies the structure of the rite, revealing the important role chant plays in it, and confronts both the acoustics of the physical spaces and the hermeneutic system of reception of the religious services. By then drawing on audio software modelling tools in order to reproduce some of the visual and aural aspects of these multi-sensory public rituals, it inaugurates a synthetic approach to the study of the premodern sacred space, which bridges humanities with exact sciences. The result is a rich contribution to the growing discipline of sound studies and an innovative convergence of the medieval and the digital.

Do Think Tanks Matter? Third Edition Nov 24 2021 It is often assumed that think tanks carry enormous weight with lawmakers and other key stakeholders. In Do Think Tanks Matter? Donald Abelson argues that the question of how think tanks have evolved and under what conditions they can and do have an impact continues to be ignored. Think tank directors often credit their institutes with influencing major policy debates and government legislation, and many journalists and scholars believe the explosion of think tanks since the latter part of the twentieth century is indicative of their growing importance in the policy-making process. Abelson goes beyond assumptions, highlighting both the visibility and relevance of public policy institutes in what has become a contentious and polarized political arena in the United States, and in Canada, where, despite recent growth in numbers, they enjoy less prominence than their US counterparts. By focusing on how think tanks engage in issue articulation, policy formation, and implementation, Abelson argues that they have helped to shape the political dialogue and the policy preferences and choices of decision-makers, but in different ways and at different stages of the policy cycle. This expanded and revised third edition includes additional institutional profiles of key think tanks, an updated chapter on presidents and think tanks, a new chapter on the efforts of a group of public policy institutes to shape the discourse around the possible construction of the controversial Keystone XL pipeline, and dozens of new graphs and tables that track the public visibility and perceived policy relevance or impact of top-tier think tanks.

Handbook of the History of General Topology Feb 02 2020 This book is the first one of a work in several volumes, treating the history of the development of topology. The work contains papers which can be classified into 4 main areas. Thus there are contributions dealing with the life and work of individual topologists, with specific schools of topology, with research in topology in various countries, and with the development of topology in different periods. The work is not restricted to topology in the strictest sense but also deals with applications and generalisations in a broad sense. Thus it also treats, e.g., categorical topology, interactions with functional analysis, convergence spaces, and uniform spaces. Written by specialists in the field, it contains a wealth of information which is not available anywhere else.

Reinventing Detroit Mar 29 2022 This book addresses the questions of what went wrong with Detroit and what can be done to reinvent

the Motor City. Various answers to the former-deindustrialization, white flight, and a disappearing tax base-are now well understood. Less discussed are potential paths forward, stemming from alternative explanations of Detroit's long-term decline and reconsideration of the challenges the city currently faces. Urban crisis-socioeconomic, fiscal, and political-has seemingly narrowed the range of possible interventions. Growth-oriented redevelopment strategies have not reversed Detroit's decline, but in the wake of crisis, officials have increasingly funnelled limited public resources into the city's commercial core via an implicit policy of "urban triage." The crisis has also led to the emergency management of the city by extra-democratic entities. As a disruptive historical event, Detroit's crisis is a moment teeming with political possibilities. The critical rethinking of Detroit's past, present, and future is essential reading for both urban studies scholars and the general public.

IBPS RRB Officer Scale 1 & Office Assistant Prelim & Main 19 Year-wise Solved Papers (2013-19) Sep 30 2019
White House Warriors: How the National Security Council Transformed the American Way of War Sep 22 2021 This revelatory history of the elusive National Security Council shows how staffers operating in the shadows have driven foreign policy clandestinely for decades. When Michael Flynn resigned in disgrace as the Trump administration's national security advisor the New York Times referred to the National Security Council as "the traditional center of management for a president's dealings with an uncertain world." Indeed, no institution or individual in the last seventy years has exerted more influence on the Oval Office or on the nation's wars than the NSC, yet until the explosive Trump presidency, few Americans could even name a member. With key analysis, John Gans traces the NSC's rise from a collection of administrative clerks in 1947 to what one recent commander-in-chief called the president's "personal band of warriors." A former Obama administration speechwriter, Gans weaves extensive archival research with dozens of news-making interviews to reveal the NSC's unmatched power, which has resulted in an escalation of hawkishness and polarization, both in Washington and the nation at large.

Power, Law, and Maritime Order in the South China Sea May 07 2020 Over the last few decades there has been growing recognition of the importance of a peaceful and stable South China Sea for Indo-Pacific security and development, a recognition that has been underlain, paradoxically, by the increasingly precarious situation in this body of water that straddles critical shipping lanes from the Indian to the Pacific Ocean. This book informs its readership of the most recent developments in the South China Sea with insightful and prescient analyses from both legal and international relations perspectives. It delves into the policy perspectives and deliberations of the various relevant regional and extra-regional actors in the South China Sea dispute, the exercise of international law in the context of the changing regional political landscape, and the promise and pitfalls of past, current, and potential initiatives to manage and settle the

dispute. Written by some of the most well-known scholars and knowledgeable insiders in the fields South China Sea studies, the collection offers a wide array of diverse views that should help enrich the ongoing global discussion on conflict management and resolution in the South China Sea.

Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications Feb 13 2021 We live in a wireless society, one where convenience and accessibility determine the efficacy of the latest electronic gadgets and mobile devices. Making the most of these technologies—and ensuring their security against potential attackers—requires increased diligence in mobile technology research and development. Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications brings together a comprehensive range of voices and research in the area of mobile and wireless technologies, exploring the successes and failures, advantages and drawbacks, and benefits and limitations of the technology. With applications in a plethora of different research and topic areas, this multi-volume reference work benefits researchers, service providers, end-users, and information technology professionals. This four-volume reference work includes a diverse array of chapters and authors covering topics such as m-commerce, network ethics, mobile agent systems, mobile learning, communications infrastructure, and applications in fields such as business, healthcare, government, tourism, and more.

Women of Abstract Expressionism Jun 19 2021 This publication contains a survey of female abstract expressionist artists, revealing the richness and lasting influence of their work and the movement as a whole as well as highlighting the lack of critical attention they have received to date.

Rethinking Library Technical Services Apr 05 2020 Will library technical services exist thirty years from now? If so, what do leading experts see as the direction of the field? In this visionary look at the future of technical services, Mary Beth Weber, Head of Central Technical Services at Rutgers and editor of Library Resources and Technical Services (LRTS), the official journal of ALA's Association for Library Collections and Technical Services and one of the top peer-reviewed scholarly technical services journals has compiled a veritable who's who of the field to answer just these questions. Experts including Amy K. Weiss, Sylvia Hall-Ellis, and Sherri L. Vellucci answer vital questions like: Is there a future for traditional cataloging, acquisitions, and technical services? How can librarians influence the outcome of vendor-provided resources such as e-books, licensing, records sets, and authority control? Will RDA live up to its promise? Are approval plans and subject profiles relics of the past? Is there a need to curate data through its lifecycle? What skills will be needed in the future in technical services jobs?

Windows 10 All-In-One For Dummies Mar 05 2020 The most comprehensive guide to Windows 10, updated with the latest enhancements If you're new to Windows 10 and want an authoritative and accessible guide to the basics of the widely used operating system,

Windows 10 All-in-One For Dummies is the book for you. Written by trusted Windows expert Woody Leonhard, this freshly updated guide cuts through the jargon and covers everything you need to know, including navigating the start menu, personalizing your Windows experience, maximizing Windows apps, and managing security. Windows 10 All-in-One For Dummies includes all the guidance you need to make the most of this latest update of Windows. It shows you how to set up multiple user accounts, create a Homegroup for easy sharing between devices, backup your files, and troubleshoot common problems. Covers all the new features and latest enhancements to Windows 10 Makes upgrading to the latest version easier than ever Lets you work with apps like a pro Includes tons of tips on protecting your computer, data, privacy, and identity Whether you use Windows 10 for business, fun and games, or staying in touch with family and friends, Windows 10 All-in-One For Dummies makes it easy.

Knowledge Science, Engineering and Management Oct 31 2019 This two-volume set of LNAI 12274 and LNAI 12275 constitutes the refereed proceedings of the 13th International Conference on Knowledge Science, Engineering and Management, KSEM 2020, held in Hangzhou, China, in August 2020.* The 58 revised full papers and 27 short papers were carefully reviewed and selected from 291 submissions. The papers of the first volume are organized in the following topical sections: knowledge graph; knowledge representation; knowledge management for education; knowledge-based systems; and data processing and mining. The papers of the second volume are organized in the following topical sections: machine learning; recommendation algorithms and systems; social knowledge analysis and management; text mining and document analysis; and deep learning. *The conference was held virtually due to the COVID-19 pandemic.

Pretrained Transformers for Text Ranking Apr 17 2021 The goal of text ranking is to generate an ordered list of texts retrieved from a corpus in response to a query. Although the most common formulation of text ranking is search, instances of the task can also be found in many natural language processing (NLP) applications.This book provides an overview of text ranking with neural network architectures known as transformers, of which BERT (Bidirectional Encoder Representations from Transformers) is the best-known example. The combination of transformers and self-supervised pretraining has been responsible for a paradigm shift in NLP, information retrieval (IR), and beyond. This book provides a synthesis of existing work as a single point of entry for practitioners who wish to gain a better understanding of how to apply transformers to text ranking problems and researchers who wish to pursue work in this area. It covers a wide range of modern techniques, grouped into two high-level categories: transformer models that perform reranking in multi-stage architectures and dense retrieval techniques that perform ranking directly. Two themes pervade the book: techniques for handling long documents, beyond typical sentence-by-sentence processing in NLP, and techniques for addressing the

tradeoff between effectiveness (i.e., result quality) and efficiency (e.g., query latency, model and index size). Although transformer architectures and pretraining techniques are recent innovations, many aspects of how they are applied to text ranking are relatively well understood and represent mature techniques. However, there remain many open research questions, and thus in addition to laying out the foundations of pretrained transformers for text ranking, this book also attempts to prognosticate where the field is heading.

Above sea Sep 10 2020 Shanghai, long known as mainland China's most cosmopolitan city, is today a global cultural capital. This book offers the first in-depth examination of contemporary Shanghai-based art and design – from state-sponsored exhibitions to fashionable cultural complexes to cutting edge films and installations. Informed by years of in-situ research, the book looks beyond contemporary art's global hype to reveal the socio-political tensions accompanying Shanghai's transitions from semi-colonial capitalism to Maoist socialism to Communist Party-sponsored capitalism. Case studies reveal how Shanghai's global aesthetic constructs glamorising artifices that mask the conflicts between vying notions of foreign-influenced modernity and anti-colonialist nationalism, as well as the city's repressed socialist past and its consumerist present.

2013 International Conference on Advanced Education Technology and Management Science(AETMS2013) May 19 2021 2013 International Conference on Advanced Education Technology and Management Science(AETMS2013) aims to provide a forum for accessing to the most up-to-date and authoritative knowledge from both Education Technology and Management Science. AETMS2013 features unique mixed topics of Education technology, Teaching theory, psychology, Sport Pedagogy, Management science and engineering, Finance and economics and so on. The goal of this conference is to bring researchers, engineers, and students to the areas of Education Technology and Management Science to share experiences and original research contributions on those topics.

Xu Bing Nov 05 2022 This volume offers a path-breaking reassessment of Xu Bing's oeuvre by analyzing the diverse cultural environments in which his work has developed since the Book from the Sky. It contains three lecture transcripts and eight art historical essays; these explore themes such as Xu's animal works, audience participation, new ink, prints, realism, socialist spectacle, and word play. A critical question addressed in this volume is what carries art to a global level beyond regional histories and cultural symbols. Absorbing critical essays on contemporary Chinese aesthetics addressing the social context and philosophical concerns that underlie Xu Bing's key works. The authors analyze Xu's art, shedding light on the tangled history of socialism and neoliberalism in the Post-Mao period. --Prof. Dr. Lothar Ledderose, Senior Professor, Institute of East Asian Art, Universität Heidelberg

Greek Epigram from the Hellenistic to the Early Byzantine Era Jul 01 2022 Greek epigram is a remarkable poetic form. The

briefest of all ancient Greek genres, it is also the most resilient: for almost a thousand years it attracted some of the finest Greek poetic talents as well as exerting a profound interest on Latin literature, and it continues to inspire and influence modern translations and imitations. After a long period of neglect, research on epigram has surged during recent decades, and this volume draws on the fruits of that renewed scholarly engagement. It is concerned not with the work of individual authors or anthologies, but with the evolution of particular subgenres over time, and provides a selection of in-depth treatments of key aspects of Greek literary epigram of the Hellenistic, Roman, and early Byzantine periods. Individual chapters offer insights into a variety of topics, from explorations of the dynamic interactions between poets and their predecessors and contemporaries, and of the relationship between epigram and its socio-political, cultural, and literary background from the third century BCE up until the sixth century CE, to its interaction with its origins, inscribed epigram more generally, other literary genres, the visual arts, and Latin poetry, as well as the process of editing and compilation which generated the collections which survived into the modern world. Through the medium of individual studies the volume as a whole seeks to offer a sense of this vibrant and dynamic poetic form and its world which will be of value to scholars and students of Greek epigram and classical literature more broadly.

Computational Modeling and Data Analysis in COVID-19 Research Jan 27 2022 This book covers recent research on the COVID-19 pandemic. It includes the analysis, implementation, usage, and proposed ideas and models with architecture to handle the COVID-19 outbreak. Using advanced technologies such as artificial intelligence (AI) and machine learning (ML), techniques for data analysis, this book will be helpful to mitigate exposure and ensure public health. We know prevention is better than cure, so by using several ML techniques, researchers can try to predict the disease in its early stage and develop more effective medications and treatments. Computational technologies in areas like AI, ML, Internet of Things (IoT), and drone technologies underlie a range of applications that can be developed and utilized for this purpose. Because in most cases there is no one solution to stop the spreading of pandemic diseases, and the integration of several tools and tactics are needed. Many successful applications of AI, ML, IoT, and drone technologies already exist, including systems that analyze past data to predict and conclude some useful information for controlling the spread of COVID-19 infections using minimum resources. The AI and ML approach can be helpful to design different models to give a predictive solution for mitigating infection and preventing larger outbreaks. This book: Examines the use of artificial intelligence (AI), machine learning (ML), Internet of Things (IoT), and drone technologies as a helpful predictive solution for controlling infection of COVID-19 Covers recent research related to the COVID-19 pandemic and includes the analysis, implementation, usage, and proposed ideas and models with architecture to handle a pandemic outbreak

Examines the performance, implementation, architecture, and techniques of different analytical and statistical models related to COVID-19 Includes different case studies on COVID-19 Dr. Chhabi Rani Panigrahi is Assistant Professor in the Department of Computer Science at Rama Devi Women's University, Bhubaneswar, India. Dr. Bibudhendu Pati is Associate Professor and Head of the Department of Computer Science at Rama Devi Women's University, Bhubaneswar, India. Dr. Mamata Rath is Assistant Professor in the School of Management (Information Technology) at Birla Global University, Bhubaneswar, India. Prof. Rajkumar Buyya is a Redmond Barry Distinguished Professor and Director of the Cloud Computing and Distributed Systems (CLOUDS) Laboratory at the University of Melbourne, Australia.

Hedge Funds Mar 17 2021 Hedge Funds: Structure, Strategies, and Performance provides a synthesis of the theoretical and empirical literature on this intriguing, complex, and frequently misunderstood topic. The book dispels some common misconceptions of hedge funds, showing that they are not a monolithic asset class but pursue highly diverse strategies. Furthermore, not all hedge funds are unusually risky, excessively leveraged, invest only in illiquid asses, attempt to profit from short-term market movements, or only benefit hedge fund managers due to their high fees. Among the core issues addressed are how hedge funds are structured and how they work, hedge fund strategies, leading issues in this investment, and the latest trends and developments. The authors examine hedge funds from a range of perspectives, and from the theoretical to the practical. The book explores the background, organization, and economics of hedge funds, as well as their structure. A key part is the diverse investment strategies hedge funds follow, for example some are activists, others focusing on relative value, and all have views on managing risk. The book examines various ways to evaluate hedge fund performance, and enhances understanding of their regulatory environment. The extensive and engaging examination of these issues help the reader understands the important issues and trends facing hedge funds, as well as their future prospects.

Carbon Nanomaterials Based on Graphene Nanosheets Dec 14 2020 Since the discovery of graphene, it has become one of the most widely and extensively studied materials. This book aims to summarize the progress in synthesis, processing, characterization and applications of a special group of nanocarbon materials derived from graphene or graphene related derivatives by using various strategies in different forms. More specifically, three forms of macrosized materials are presented, i.e., one-dimension or 1D (fibers, wires, yarns, streads, etc.), two-dimension or 2D (films, membranes, papers, sheets, etc.) and three-dimension or 3D (bulk, hydrogels, aerogels, foams, sponges, etc.). Seven chapters are included with the first chapter serving to introduce the concept, definition, and nomenclature of graphene, graphene oxide and their derivatives. The main topics are covered in Chapters 2–7. Although they have coherent connections, each chapter of them is designed such that they can be

studied independently. The target readers of this book include undergraduate students, postgraduate students, researchers, designers, engineers, professors, and program/project managers from the fields of materials science and engineering, applied physics, chemical engineering, biomaterials, materials manufacturing and design, institutes, and research founding agencies.

Dave Bing Nov 12 2020 What kind of person loses sight in one eye and then through dedicated practice and honed skills becomes one of the top 50 NBA players of all time? What kind of person, with limited business experience, builds a start-up company into a thriving corporation and is recognized as one of the world's most successful black executives? What kind of person, while running a $350 million business, takes the time to reach out to black youths lacking father figures and provides counsel and support? And what kind of person, instead of enjoying a well-deserved luxurious retirement, chooses to become mayor of a large city that many long ago had written off as dead? Dave Bing, that's who. In Dave Bing, Detroit Free Press sports columnist Drew Sharp chronicles the compelling story of a figure whose sheer will to succeed, refusal to make excuses for setbacks, and efforts to contribute to society set him apart as an anomaly—a man of virtues so rarely found in recent history. His path from Washington D.C. to Syracuse to Detroit is sometimes tumultuous, blazed by hard work, perseverance, and savvy. Much more than the stereotypical tale of celebrity ex-jock who does good, this is a story about a black male who, even as a youngster, determined to conquer whatever challenges came his way. And now, as mayor of Detroit, Bing encounters perhaps his greatest test of all. Faced with entrenched and power-hungry political foes, a series of failed and corrupt predecessors, a work force ill prepared for today's job market, a staggering city debt, and recent health problems, Bing would appear to have little chance of surviving his office. Both the naysayers and optimists would do well to read the book.

#Republic Aug 29 2019 From the New York Times bestselling author of Nudge and The World According to Star Wars, a revealing account of how today's Internet threatens democracy—and what can be done about it As the Internet grows more sophisticated, it is creating new threats to democracy. Social media companies such as Facebook can sort us ever more efficiently into groups of the like-minded, creating echo chambers that amplify our views. It's no accident that on some occasions, people of different political views cannot even understand one another. It's also no surprise that terrorist groups have been able to exploit social media to deadly effect. Welcome to the age of #Republic. In this revealing book, New York Times bestselling author Cass Sunstein shows how today's Internet is driving political fragmentation, polarization, and even extremism--and what can be done about it. He proposes practical and legal changes to make the Internet friendlier to democratic deliberation, showing that #Republic need not be an ironic term. Rather, it can be a rallying cry for the kind of democracy that citizens of diverse societies need most.

Asia's New Battlefield Aug 10 2020 This compact, insightful book offers an up-to-the-minute guide to understanding the evolution of maritime territorial disputes in East Asia, exploring their legal, political-security and economic dimensions against the backdrop of a brewing Sino-American rivalry for hegemony in the Asia-Pacific region. It traces the decades-long evolution of Sino-American relations in Asia, and how this pivotal relationship has been central to prosperity and stability in one of the most dynamics regions of the world. It also looks at how middle powers – from Japan and Australia to India and South Korea – have joined the fray, trying to shape the trajectory of the territorial disputes in the Western Pacific, which can, in turn, alter the future of Asia – and ignite an international war that could re-configure the global order. The book examines how the maritime disputes have become a litmus test of China's rise, whether it has and will be peaceful or not, and how smaller powers such as Vietnam and the Philippines have been resisting Beijing's territorial ambitions. Drawing on extensive discussions and interviews with experts and policy-makers across the Asia-Pacific region, the book highlights the growing geopolitical significance of the East and South China Sea disputes to the future of Asia – providing insights into how the so-called Pacific century will shape up.

Computer Vision Jun 07 2020 The two volumes CCIS 546 and 547 constitute the refereed proceedings of the CCF Chinese Conference on Computer Vision, CCCV 2015, held in Xi'an, China, in September 2015. The total of 89 revised full papers presented in both volumes were carefully reviewed and selected from 176 submissions. The papers address issues such as computer vision, machine learning, pattern recognition, target recognition, object detection, target tracking, image segmentation, image restoration, face recognition, image classification.

Institutional Supports for the International Rule of Law Feb 25 2022 The rule of law is widely seen as the cornerstone of any effective polity and increasingly a vital component of the international political system. If the international rule of law were to be strengthened, it would greatly contribute to trade, security, human rights and global cooperation in a range of fields. Yet, in many areas the rule of law seems almost absent in international affairs. This book explores the institutions that support the effectiveness of the rule of law domestically. It focuses on the extent to which similar institutions already exist at international level and analyses the possibility of their further development. The authors speculate on how the international rule of law might be advanced in the future, thereby suggesting potential strategies for strengthening the international rule of law. Adopting an interdisciplinary approach and combining the fields of international relations, politics and law, this book covers a range institutions including: UN Security Council International Court of Justice Human rights machinery Regional human rights International Criminal Court World Trade Organization International Tribunal for the Law of the Sea UN Department of Peacekeeping Operations. It will be of strong interest to students and scholars of international relations, international organisations, global governance, international law, migration law, international peace and security law, applied ethics, political economy, political science and sociology.

Book from the Ground Jul 21 2021 A book without words, recounting a day in the life of an office worker, told completely in the symbols, icons, and logos of modern life. Twenty years ago I made Book from the Sky, a book of illegible Chinese characters that no one could read. Now I have created Book from the Ground, a book that anyone can read. —Xu Bing Following his classic work Book from the Sky, the Chinese artist Xu Bing presents a new graphic novel—one composed entirely of symbols and icons that are universally understood. Xu Bing spent seven years gathering materials, experimenting, revising, and arranging thousands of pictograms to construct the narrative of Book from the Ground. The result is a readable story without words, an account of twenty-four hours in the life of "Mr. Black," a typical urban white-collar worker. Our protagonist's day begins with wake-up calls from a nearby bird and his bedside alarm clock; it continues through tooth-brushing, coffee-making, TV-watching, and cat-feeding. He commutes to his job on the subway, works in his office, ponders various fast-food options for lunch, waits in line for the bathroom, daydreams, sends flowers, socializes after work, goes home, kills a mosquito, goes to bed, sleeps, and gets up the next morning to do it all over again. His day is recounted with meticulous and intimate detail, and reads like a postmodern, post-textual riff on James Joyce's account of Bloom's peregrinations in Ulysses. But Xu Bing's narrative, using an exclusively visual language, could be published anywhere, without translation or explication; anyone with experience in contemporary life—anyone who has internalized the icons and logos of modernity, from smiley faces to transit maps to menus—can understand it.