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High-Performance Computing Using FPGAs

High-Performance Computing using FPGA covers the area of high performance reconfigurable computing (HPRC). This book provides an overview of architectures, tools and applications for High-Performance Reconfigurable Computing (HPRC). FPGAs offer very high I/O bandwidth and fine-grained, custom and flexible parallelism and with the ever-increasing computational needs coupled with the frequency/power wall, the increasing maturity and capabilities of FPGAs, and the advent of multicore processors which has caused the acceptance of parallel computational models. The Part on architectures will introduce different FPGA-based HPC platforms: attached co-processor HPRC architectures such as the CHREC's Novo-G and EPCC's Maxwell systems; tightly coupled HPRC architectures, e.g. the Convey hybrid-core computer; reconfigurably networked HPRC architectures, e.g. the QPACE system, and standalone HPRC architectures such as EPFL's CONFETTI system. The Part on Tools will focus on high-level programming approaches for HPRC, with chapters on C-to-Gate tools (such as Impulse-C, AutoESL, Handel-C, MORA-C++); Graphical tools (MATLAB-Simulink, NI LabVIEW); Domain-specific languages, languages for heterogeneous computing (for example OpenCL, Microsoft's Kiwi and Alchemy projects). The part on Applications will present case from several application domains where HPRC has been used successfully, such as Bioinformatics and Computational Biology; Financial Computing; Stencil computations; Information retrieval; Lattice QCD; Astrophysics simulations; Weather and climate modeling.

Muscle Gene Therapy

It's been ten years since open data first broke onto the global stage. Over the past decade, thousands of programmes and projects around the world have worked to open data and use it to address a myriad of social and economic challenges. Meanwhile, issues related to data rights and privacy have moved to the centre of public and political discourse. As the open data movement enters a new phase in its evolution, shifting to target real-world problems and embed open data thinking into other existing or emerging communities of practice, big questions still remain. How will open data initiatives respond to new concerns about privacy, inclusion, and artificial intelligence? And what can we learn from the last decade in order to deliver impact where it is most needed? The State of Open Data brings together over 60 authors from around the world to address these questions and to take stock of the real progress made to date across sectors and around the world, uncovering the issues that will shape the future of open data in the years to come.

Towards a New Enlightenment?

This book constitutes selected papers from the 14th European, Mediterranean, and Middle Eastern Conference, EMCIS 2017, held in Coimbra, Portugal, in September 2017. EMCIS is focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline following sound research methodologies that lead to results of measurable impact. The 37 full and 16 short papers presented in this volume were carefully reviewed and selected from a total of 106 submissions. They are organized in sections on big data and Semantic Web; digital services, social media and digital collaboration; e-government; healthcare information systems; information systems security and information privacy protection; IT governance; and management and organizational issues in information systems.

Global Health Experiential Education

The development of a closed-loop cycle is a necessary condition so as to develop a circular economy model as an alternative to the linear model, in order to maintain the value of products and materials for as long as possible. For this motive, the definition of the value must be demonstrated for both the environment and the economy. The presence of these analyses should be associated with the social dimension and the human component. A strong cooperation between social and technical profiles is a new challenge for all researchers. End of life of products attract a lot of attention, and the final output could be the production of technologies suitable for managing this waste.

Muscle Metabolism

Networking for Big Data supplies an unprecedented look at cutting-edge research on the networking and communication aspects of Big Data. Starting with a comprehensive introduction to Big Data and its networking issues, it offers deep technical coverage of both theory and applications. The book is divided into four sections: introduction to Big Data, networking theory and design for Big Data, networking security for Big Data, and platforms and systems for Big Data applications. Focusing on key networking issues in Big Data, the book explains network design and implementation for Big Data. It examines how network topology impacts data collection and explores Big Data storage and resource management. Addresses the virtual machine placement problem Describes widespread network and information security technologies for Big Data Explores network configuration and flow scheduling for Big Data applications Presents a systematic set of techniques that optimize throughput and improve bandwidth for efficient Big Data transfer on the Internet Tackles the trade-off problem between energy efficiency and service resiliency The book covers distributed Big Data storage and retrieval as well as security, trust, and privacy protection for Big Data collection, storage, and search. It discusses the use of cloud infrastructures and highlights its benefits to overcome the identified issues and to provide new approaches for managing huge volumes of heterogeneous data. The text concludes by proposing an innovative user data profile-aware policy-based network management framework that can help you exploit and differentiate user data profiles to achieve better power efficiency and optimized resource management.

Empowering the New Mobility Workforce

Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state-of-the-art as well as emerging topics pertaining to information and communication technologies (ICTs) and effective strategies for its implementation for engineering and intelligent applications.

Open-Source Electronics Platforms

ICT for Competitive Strategies

This book presents state-of-the-art solutions to the theoretical and practical challenges stemming from the leverage of big data and its computational intelligence in supporting smart network operation, management, and optimization. In particular, the technical focus covers the comprehensive understanding of network big data, efficient collection and management of network big data, distributed and scalable online analytics for network big data, and emerging applications of network big data for computational intelligence.

Information Systems

This book presents best practices for ethical and safe international health elective experiences for trainees and the educational competencies and evaluation techniques that make them valuable. It includes commentaries, discussions and descriptions of new global health education guidelines, reviews of the literature, as well as research. Uniquely, it will include ground-breaking research on perspectives of partners in the Global South whose voices are often unheard, student perspectives and critical discussions of the historical foundations and power dynamics inherent in international medical work. Global Health Experiential Education is a timely book that will be of interest to academic directors of global health programmes and anyone involved in training and international exchanges across North America.

The Consulting Interview Bible

Citing new understandings about fossil fuels as well as an emergence of what the author terms an "energy economy" of renewable technologies, a revised report explores how daily life is likely to be affected by a dramatic shift in investment practices toward sustainable energy sources. Simultaneous.

Plan B 4.0: Mobilizing to Save Civilization (Substantially Revised)

"Private equity is more economically significant than ever, as institutions hunt for high returns in a risky world. Private Equity 4.0 examines the role, workings and contribution of this important industry in a straightforward yet revealing manner." Dr. Josh Lerner Jacob H. Schiff Professor of Investment Banking Chair, Entrepreneurial Management Unit Harvard Business School A multi-perspective look at private equity's inner workings Private Equity 4.0 provides an insider perspective on the private equity industry, and analyzes the fundamental evolution of the private equity asset class over the past 30 years, from alternative to mainstream. The book provides insightful interviews of key industry figures, and case studies of some of the success stories in the industry. It also answers key questions related to strategy, fund manager selection, incentive mechanisms, performance comparison, red flags in prospectuses, and more. Private Equity 4.0 offers guidance for the many stakeholders that could benefit from a more complete understanding of this special area of finance. Understand the industry's dominant business models Discover how value is created and performance measured Perform a deep dive into the ecosystem of professionals that make the industry hum, including the different incentive systems that support the industry's players Elaborate a clear set of guidelines to invest in the industry and deliver better performance Written by a team of authors that combine academic and industry expertise to produce a well-rounded perspective, this book details the inner workings of private equity and gives readers the background they need to feel confident about committing to this asset class. Coverage includes a historical perspective on the business models of the three major waves

of private equity leading to today's 4.0 model, a detailed analysis of the industry today, as well as reflections on the future of private equity and prospective futures. It also provides readers with the analytical and financial tools to analyze a fund's performance, with clear explanations of the mechanisms, organizations, and individuals that make the system work. The authors demystify private equity by providing a balanced, but critical, review of its contributions and shortcomings and moving beyond the simplistic journalistic descriptions. Its ecosystem is complex and not recognizing that complexity leads to inappropriate judgments. Because of its assumed opacity and some historical deviant (and generally transient) practices, it has often been accused of evil intents, making it an ideal scapegoat in times of economic crisis, prodding leading politicians and regulators to intervene and demand changes in practices. Unfortunately, such actors were often responding to public calls for action rather than a thorough understanding of the factors at play in this complex interdependent system, doing often more harm than good in the process and depriving economies of one of their most dynamic and creative forces. Self-regulation has clearly shown its limits, but righteous political interventions even more so. Private equity investment can be a valuable addition to many portfolios, but investors need a clear understanding of the forces at work before committing to this asset class. With detailed explanations and expert insights, Private Equity 4.0 is a comprehensive guide to the industry ways and means that enables the reader to capture its richness and sustainability.

The Data Revolution

During the 21st century business environments have become more complex and dynamic than ever before. Companies operate in a world of change influenced by globalisation, volatile markets, legal changes and technical progress. As a result, they have to handle growing volumes of data and therefore require fast storage, reliable data access, intelligent retrieval of information and automated decision-making mechanisms, all provided at the highest level of service quality. Successful enterprises are aware of these challenges and efficiently respond to the dynamic environment in which their business operates. Business Intelligence (BI) and Performance Management (PM) offer solutions to these challenges and provide techniques to enable effective business change. The important aspects of both topics are discussed within this state-of-the-art volume. It covers the strategic support, business applications, methodologies and technologies from the field, and explores the benefits, issues and challenges of each. Issues are analysed from many different perspectives, ranging from strategic management to data technologies, and the different subjects are complimented and illustrated by numerous examples of industrial applications. Contributions are authored by leading academics and practitioners representing various universities, research centres and companies worldwide. Their experience covers multiple disciplines and industries, including finance, construction, logistics, and public services, amongst others. Business Intelligence and Performance Management is a valuable source of reference for graduates approaching MSc or PhD programs and for professionals in industry researching in the fields of BI and PM for industrial application.

The Mckinsey Personal Experience Interview Toolkit

"Carefully distinguishing between big data and open data, and exploring various data infrastructures, Kitchin vividly illustrates how the data landscape is rapidly changing and calls for a revolution in how we think about data." - Evelyn Ruppert, Goldsmiths, University of London "Deconstructs the hype around the 'data revolution' to carefully guide us through the histories and the futures of 'big data.' The book skilfully engages with debates from across the humanities, social sciences, and sciences in order to produce a critical account of how data are enmeshed into enormous social, economic, and political changes that are taking place." - Mark Graham, University of Oxford Traditionally, data has been a scarce commodity which, given its value, has been either jealously guarded or expensively traded. In recent years, technological developments and political lobbying have turned this position on its head. Data now flow as a deep and wide torrent, are low in cost and supported by robust infrastructures, and are increasingly open and accessible. A data revolution is underway, one that is already reshaping how knowledge is produced, business conducted, and governance enacted, as well as raising many questions concerning surveillance, privacy, security, profiling, social sorting, and intellectual property rights. In contrast to the hype and hubris of much media and business coverage, The Data Revolution provides a synoptic and critical analysis of the emerging data landscape. Accessible in style, the book provides: A synoptic overview of big data, open data and data infrastructures An introduction to thinking conceptually about data, data infrastructures, data analytics and data markets A critical discussion of the technical shortcomings and the social, political and ethical consequences of the data revolution An analysis of the implications of the data revolution to academic, business and government practices

Big Data Analytics: Systems, Algorithms, Applications

This edited volume, featuring five new chapters from invited authors, provides an updated and evidence-based explanation of leadership within a healthcare environment. The book discusses new insights garnered from recent research into the importance of leadership in health system redesign and highlights the practice of shared or distributed health care leadership. New chapters covering LEADS in a national, regional, Indigenous, health profession, and people-centred care context provide new insights into how LEADS is being put to work to transform health systems. The LEADS framework has been refreshed in relation to each of its different elements and tools, with an emphasis on providing real-life examples of how LEADS has been put to work. LEADS is also explained as a change leadership model and in relation to how it helps to level the playing field in terms of gender and diversity in health leadership. The book aims to inform the leadership needs of health reform and its emergent system wide challenges. The content is relevant to health care administrators and professionals working within the public service, academic institutions, and health care delivery organisations.

Networking for Big Data

This book discusses some of the innumerable ways in which computational methods can be used to facilitate research in biology and medicine - from storing enormous amounts of biological data to solving complex biological problems and enhancing treatment of various grave diseases.

Advanced Information Systems Engineering

Enough about the oil problem. Here's the solution. Over a few decades, starting now, a vibrant US economy (then others) can completely phase out oil. This will save a net \$70 billion a year, revitalize key industries and rural America, create a million jobs, and enhance security. Here's the roadmap - independent, peer-reviewed, co-sponsored by the Pentagon - for the transition beyond oil, led by business and profit.

Building Enterprise IoT Applications

Empowering the New Mobility Workforce: Educating, Training, and Inspiring Future Transportation Professionals enlists a multidisciplinary roster of subject matter specialists who identify the priorities and strategies for cultivating a skilled workforce for the rapidly changing transportation landscape. Transportation employers will need to hire 4.6 million workers—1.2 times the current transportation workforce—in the next decade. The book explores how leaders in education, industry and government can work together to create an ecosystem that facilitates learning and upskilling for emerging and incumbent transportation workers. Readers will learn how to conduct labor market analyses and develop competency models to adapt their workforce. This book will empower readers to establish ongoing communities of practice that cultivate sustainable career pathways that respond to ever-evolving socioeconomic trends and transformational technologies. Provides a comprehensive assessment of the new technologies and consumer attitudes driving change in personal vehicle, mass transit, active transportation, and goods movement, both domestically and internationally Identifies the career pathways, experiential learning models, and types of curriculum needed to prepare emerging professionals to develop and operate transportation systems of the future Emphasizes, through case studies, innovative practices emerging in public- and private-sector transportation organizations Draws on key work conducted in the United States and around the world, acknowledging the increasing interconnectedness of transportation systems between countries, economies and social networks that transcend national boundaries

Case in Point 9. 1

Diabetes research on models comprising intact animal tissues, cell cultures and isolated pancreatic islets is essential for understanding the pathogenesis of the disease as well as the mechanisms responsible for the chronic complications

associated with it. Enormous advances in the understanding of the development of diabetes and its prevention hav

Machine Learning and IoT

Do your employees drag themselves into work (reluctantly!) every day? Do you wish they were engaged and passionate about their jobs, driven to achieve your department's and organization's goals? Motivate your team now with an information-packed practical guide to inspiring your team to win at work. This book features -A 7-step strategy for managers who want to INSPIRE their team members to higher engagement and performance. -Practical tips, tools and examples that can be adapted for various situations. -A distillation of our knowledge and experiences from decades of consulting, coaching and training employees at all levels. -Academic research in management and psychology; and best practices from leading organizations and consulting firms. -Even though the book is aimed at managers/leaders, it can also be useful for individual employees who want to enhance their own engagement at work.

Lead, Motivate, Engage

This book constitutes the refereed proceedings of the 29th International Conference on Advanced Information Systems Engineering, CAiSE 2017, held in Essen, Germany, in June 2017. The 37 papers presented together with 3 keynote papers in this volume were carefully reviewed and selected from 175 submissions. The papers are organized in topical sections on information systems architecture; business process alignment; user knowledge discovery; business process performance; big data exploration; process variability management; information systems transformation and evolution; business process modeling readability; business process adaption; data mining; process discovery; business process modeling notation.

Machine Learning in Action

The third volume in the internationally bestselling McKinsey Trilogy, The McKinsey Engagement is an action guide to realizing the consistently high level of business solutions achieved by the experts at the world's most respected consulting firms. Former consultant Dr. Paul Friga distills the guiding principles first presented in the bestselling The McKinsey Way and the tested-in-the-trenches methodologies outlined in The McKinsey Mind, and combines them with many of the principles and procedures implemented by the military and other organizations. The result is nothing less than the business equivalent of a Special Forces Field Manual. True to its stated goal of arming consultants and corporate problem solvers with a blueprint for achieving consistently phenomenal results, The McKinsey Engagement is short on theory and long on action. Each chapter focuses on one element in the celebrated TEAM FOCUS problem-solving model and features a concise discussion of a key concept or principle, followed by: Clear rules of engagement A set of operating tactics Sophisticated

problem solving tools Easy-to-follow action steps Exercises, checklists, and training tips War stories and best practices case studies A toolkit for bringing clarity, discipline, and purpose to all your problem-solving and change management initiatives, The McKinsey Engagement is an indispensable guide for consultants, as well as for executives, managers, students, and corporate trainers.

The State of Open Data

This book is concerned with how the pursuit of national economic competitiveness by states has come to be intertwined with a globalised gender agenda—one in which women and the household economy are seen as ‘untapped’ resources. In many East and Southeast Asian economies, competitiveness and the dangers of the middle-income trap dominate economic policy agendas: states’ commitments to gender equality goals are frequently framed around ‘business case’ logics in which women’s empowerment and women’s increased engagement in the productive economy is linked to the national economic project of building and enhancing competitiveness. This book looks to the case of Malaysia in order to assess how the increasingly dominant view that gender equality is ‘smart economics’ plays out in practice. Drawing upon extensive case study research and interview data, the book hones in on the complex gender politics that are at work within government initiatives that seek to enhance competitiveness via increasing women’s labour force participation, efforts to strengthen marriage and family life, and attempts to boost women’s entrepreneurialism and status within the corporate world. Providing an account of the gender politics at work within ongoing processes of state transformation in Asia, this book will appeal to researchers and students in gender studies, Southeast Asian studies, International Political Economy and public policy.

Business Intelligence and Performance Management

Provides information on the concepts of machine theory, covering such topics as statistical data processing, data visualization, and forecasting.

The McKinsey Engagement: A Powerful Toolkit For More Efficient and Effective Team Problem Solving

Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of

open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

Managing Natural Resources for Development in Africa

This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2018), which was held at Daffodil International University on 14–15 December 2018. The topics covered include: collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing.

Industry 4.0 for SMEs

The Wall Street Journal calls Case in Point the MBA Bible! Cosentino demystifies the consulting case interview. He takes you inside a typical interview by exploring the various types of case questions and he shares with you the acclaimed Ivy Case System which will give you the confidence to answer even the most sophisticated cases.

Gender Politics and the Pursuit of Competitiveness in Malaysia

The complex and dynamic interlinks between natural resource management (NRM) and development have long been recognized by national and international research and development organizations and have generated voluminous literature. However, much of what is available in the form of university course books, practical learning manuals and reference materials in NRM is based on experiences from outside Africa. Managing Natural Resources for Development in Africa: A Resource Book provides an understanding of the various levels at which NRM issues occur and are being addressed scientifically, economically, socially and politically. The book's nine chapters present state-of-the-art perspectives within a holistic African context. The book systematically navigates the tricky landscape of integrated NRM, with special reference to Eastern and Southern Africa, against the backdrop of prevailing local, national, regional and global social, economic and environmental challenges. The authors' wide experience, the rich references made to emerging challenges and opportunities, and the presentation of different tools, principles, approaches, case studies and processes make the book a rich and valuable one-stop resource for postgraduate students, researchers, policymakers and NRM practitioners. The book is designed to help the reader grasp in-depth NRM perspectives and presents innovative guidance for research design and problem solving, including review questions, learning activities and recommended further reading. The book was developed through a writeshop process by a multi-disciplinary team of lecturers from the University of

Nairobi, Egerton University, Kenyatta University, the University of Zimbabwe, the University of Malawi, Makerere University and the University of Dar es Salam. In addition, selected NRM experts from regional and international research organizations including the World Agroforestry Center (ICRAF), the Africa Forest Forum, RUFORUM, IIRR and the International Development Research Centre (IDRC) participated in the writeshop and contributed material to the book.

Private Equity 4.0

This book provides a comprehensive survey of techniques, technologies and applications of Big Data and its analysis. The Big Data phenomenon is increasingly impacting all sectors of business and industry, producing an emerging new information ecosystem. On the applications front, the book offers detailed descriptions of various application areas for Big Data Analytics in the important domains of Social Semantic Web Mining, Banking and Financial Services, Capital Markets, Insurance, Advertisement, Recommendation Systems, Bio-Informatics, the IoT and Fog Computing, before delving into issues of security and privacy. With regard to machine learning techniques, the book presents all the standard algorithms for learning – including supervised, semi-supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective Deep Learning. Multi-layered and nonlinear learning for Big Data are also covered. In turn, the book highlights real-life case studies on successful implementations of Big Data Analytics at large IT companies such as Google, Facebook, LinkedIn and Microsoft. Multi-sectorial case studies on domain-based companies such as Deutsche Bank, the power provider Opower, Delta Airlines and a Chinese City Transportation application represent a valuable addition. Given its comprehensive coverage of Big Data Analytics, the book offers a unique resource for undergraduate and graduate students, researchers, educators and IT professionals alike.

Winning the Oil Endgame

Muscle disease represents an important health threat to the general population. There is essentially no cure. Gene therapy holds great promise to correct the genetic defects and eventually achieve full recovery in these diseases. Significant progresses have been made in the field of muscle gene therapy over the last few years. The development of novel gene delivery vectors has substantially enhanced specificity and efficiency of muscle gene delivery. The new knowledge on the immune response to viral vectors has added new insight in overcoming the immune obstacles. Most importantly, the field has finally moved from small experimental animal models to human patients. This book will bring together the leaders in the field of muscle gene transfer to provide an updated overview on the progress of muscle gene therapy. It will also highlight important clinical applications of muscle gene therapy.

Proceedings of International Joint Conference on Computational Intelligence

Embrace the Case Interview walks you through each step on the path to your dream consulting job as described by a former management consultant who conducted over 100 interviews for a top-tier firm. First, we cover how to get the interview including how to be memorable when speaking with firms prior to the interview and how to write a killer resume and cover letter. Second, we cover the behavioral part of the interview. Often overlooked, the behavioral part of the interview covers your personal experiences and is often just as valuable as the case interview. We discuss the traits interviewers are looking for and how to answer their questions in a structured way. Third, we take an in-depth look at the case interview itself. Unlike books that focus on segmenting cases and applying frameworks, you will learn a single, flexible structure that you will apply to any case with deadly effectiveness. In addition to structuring the case, you will learn approaches for the cases' other parts including qualitative questions, quantitative problems, exhibit analysis, and synthesis. Embrace the Case Interview places a strong emphasis on the quality of your learning rather than just doing hundreds of cases. As such, each example case contains an in-depth discussion of the text book answer to help you improve. For more information, please visit embracethecaseinterview.com. Enjoy the book and best of luck in your upcoming interviews!

Case Interview Secrets

McKinsey Global Institute predicts Internet of Things (IoT) could generate up to \$11.1 trillion a year in economic value by 2025. Gartner Research Company expects 20 billion inter-connected devices by 2020 and, as per Gartner, the IoT will have a significant impact on the economy by transforming many enterprises into digital businesses and facilitating new business models, improving efficiency and increasing employee and customer engagement. It's clear from above and our research that the IoT is a game changer and will have huge positive impact in foreseeable future. In order to harvest the benefits of IoT revolution, the traditional software development paradigms must be fully upgraded. The mission of our book, is to prepare current and future software engineering teams with the skills and tools to fully utilize IoT capabilities. The book introduces essential IoT concepts from the perspectives of full-scale software development with the emphasis on creating niche blue ocean products. It also: Outlines a fundamental full stack architecture for IoT Describes various development technologies in each IoT layer Explains IoT solution development from Product management perspective Extensively covers security and applicable threat models as part of IoT stack The book provides details of several IoT reference architectures with emphasis on data integration, edge analytics, cluster architectures and closed loop responses.

Innovative Technologies and Learning

This book starts with an introduction to process modeling and process paradigms, then explains how to query and analyze process models, and how to analyze the process execution data. In this way, readers receive a comprehensive overview of what is needed to identify, understand and improve business processes. The book chiefly focuses on concepts, techniques

and methods. It covers a large body of knowledge on process analytics – including process data querying, analysis, matching and correlating process data and models – to help practitioners and researchers understand the underlying concepts, problems, methods, tools and techniques involved in modern process analytics. Following an introduction to basic business process and process analytics concepts, it describes the state of the art in this area before examining different analytics techniques in detail. In this regard, the book covers analytics over different levels of process abstractions, from process execution data and methods for linking and correlating process execution data, to inferring process models, querying process execution data and process models, and scalable process data analytics methods. In addition, it provides a review of commercial process analytics tools and their practical applications. The book is intended for a broad readership interested in business process management and process analytics. It provides researchers with an introduction to these fields by comprehensively classifying the current state of research, by describing in-depth techniques and methods, and by highlighting future research directions. Lecturers will find a wealth of material to choose from for a variety of courses, ranging from undergraduate courses in business process management to graduate courses in business process analytics. Lastly, it offers professionals a reference guide to the state of the art in commercial tools and techniques, complemented by many real-world use case scenarios.

Adopting Circular Economy Current Practices and Future Perspectives

This book constitutes the refereed proceedings of the Second International Conference on Innovative Technologies and Learning, ICITL 2019, held in Tromsø, Norway, in December 2019. The 85 full papers presented together with 4 short papers were carefully reviewed and selected from 189 submissions. The papers are organized in the following topical sections: application and design of innovative learning software; artificial intelligence and data mining in education; augmented and virtual reality in education; computational thinking in education; design and framework of learning systems; educational data analytics techniques and adaptive learning applications; evaluation, assessment and test; innovative learning in education; mobile learning; new perspectives in education; online course and web-based environment; pedagogies to innovative technologies; social media learning; technologies enhanced language learning; and technology and engineering education.

Practical Wisdom in Management

Addresses key issues in understanding the decade 2008-2018 and its impact on the societies of the future. Brings together the articles B28of twenty-two prestigious international experts in different fields of thought. Through an informative approach, the essays form a transversal view of today's thinking. This is the tenth title of the Open Mind essay collection published by BBVA.A27.0We are living through years of great importance, marked by the unstoppable evolution of

technology, science and the information society. This book brings together twenty-two essays written by prestigious researchers from the world's leading universities on areas as diverse as crucial to our future: climate change, artificial intelligence, economics, cyber-security and geopolitics, democracy, anthropology, new media, astrophysics and cosmology, nanotechnology, biomedicine, globalisation, gender theory and the cities of the future.

Process Analytics

The McKinsey PEI (Personal Experience Interview) is by far the most underestimated part of the McKinsey interview procedure and the most likely reason why candidates fail in their interviews. Lots of candidates are not even aware that the McKinsey PEI is a distinct interview format and hasn't basically anything to do with general CV-related questions you might come across at other consulting firms like "what are your strengths", "tell me about your weaknesses", etc. Therefore, mastering the McKinsey PEI requires an in-depth understanding of this interview format and very diligent preparation. With the McKinsey PEI Toolkit You Are Going To Master the whole PEI prep process effectively and efficiently by understanding McKinsey's underlying mindset regarding the PEI. Choose the right examples for your McKinsey PEI stories by acquiring in-depth knowledge of the three PEI interview dimensions and what specifically to emphasize. Lay out and prepare all your PEI stories exactly the way McKinsey wants you to have them delivered. Eliminate the huge risk of going into a wrong direction in your PEI and only assuming that you are well prepared, recognizing it only on your interview day that you are way off, once it is too late already. Get started in your PEI prep now and avoid procrastination by following a proven, time-tested process. Save a lot of time in preparing for the PEI by doing it right the first time instead of reworking it several times, especially if you are under time pressure after having received your interview slot on short notice. Score high on all PEI evaluation criteria by comprehending McKinsey's scoring sheet. To put a long story short: Make sure you are well prepared for the PEI, go to your interviews in a confident manner with peace of mind, and don't risk to fail on your interview day and lose your McKinsey job offer unnecessarily if you could have prepped for it easily. A Long Story Short: 100% First Hand Information 6-Step Proven Process For In-Depth Prep 15 Sample Stories From Successful Candidates 20 Real-Life PEI Sample Questions 100+ Pages Of Pure Content You can find more information as well as the ebook version for instant download on <http://pei.consulting-case-interviews.com>.

Bringing Leadership to Life in Health: LEADS in a Caring Environment

Cheng, a former McKinsey management consultant, reveals his proven, insider's method for acing the case interview.

Big Data and Computational Intelligence in Networking

Practical Wisdom in Management is the first in-depth case-study book to explore how practical wisdom from spiritual and philosophical traditions inspires corporate culture and leadership. The outcome of the Practical Wisdom Initiative, between The Academy of Business in Society (ABIS) and Yale University Center for Faith and Culture, it seeks to construct a bridge between the worlds of management and the spiritual and philosophical traditions. Covering ten major worldwide religions, Theodore Malloch provides an overview of the practical wisdom of the major faith traditions for management. It includes case studies of over twenty multinational corporations focusing on their values, spiritual inspiration and business strategy. It features case studies on corporations including: Ascension Health; Michelin; DANONE Group, Walmart; TOMS; Marriott; HSBC; Four Seasons; Guangzhou Eversunny Trading and Toyota. It is essential reading for business leaders, researchers and students of business ethics and spirituality courses and includes full teaching guidance.

Autonomous Horizons

Dr. Greg Zacharias, former Chief Scientist of the United States Air Force (2015-18), explores next steps in autonomous systems (AS) development, fielding, and training. Rapid advances in AS development and artificial intelligence (AI) research will change how we think about machines, whether they are individual vehicle platforms or networked enterprises. The payoff will be considerable, affording the US military significant protection for aviators, greater effectiveness in employment, and unlimited opportunities for novel and disruptive concepts of operations. *Autonomous Horizons: The Way Forward* identifies issues and makes recommendations for the Air Force to take full advantage of this transformational technology.

Embrace the Case Interview

This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central corporate strategy of larger companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0. Addressing this obstacle, the international team of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely book will be of great use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.

On the Constitutionality of a National Bank

In 1791, The First Bank of the United States was a financial innovation proposed and supported by Alexander Hamilton, the first Secretary of the Treasury. Establishment of the bank was part of a three-part expansion of federal fiscal and monetary power, along with a federal mint and excise taxes. Hamilton believed that a national bank was necessary to stabilize and improve the nation's credit, and to improve financial order, clarity, and precedence of the United States government under the newly enacted Constitution. Alexander Hamilton (1755-1804) was a founding father of the United States, one of the most influential interpreters and promoters of the Constitution, the founder of the American financial system, and the founder of the Federalist Party. As the first Secretary of the Treasury, Hamilton was the primary author of the economic policies for George Washington's administration. Hamilton took the lead in the funding of the states' debts by the federal government, the establishment of a national bank, and forming friendly trade relations with Britain. He led the Federalist Party, created largely in support of his views; he was opposed by the Democratic Republican Party, led by Thomas Jefferson and James Madison, which despised Britain and feared that Hamilton's policies of a strong central government would weaken the American commitment to Republicanism.

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