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KEY=ACCELERATING - KLINE ZAYDEN

IBM Rational ClearCase, Ant, and CruiseControl

The Java Developer's Guide to Accelerating and Automating the Build Process

Adobe Press **"No previous build experience is necessary: Lee thoroughly explains everything from configuring SCM environments and defining build scripts through to release packaging and deployment. He offers solutions and techniques for both Base ClearCase and Unified Change Management (UCM)-IBM Rational's best practice Software Configuration Management usage model. Key techniques are presented in real-world context, through a full-fledged three-tier application case study. Book jacket."--Jacket.**

Accelerate

The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations

IT Revolution **Winner of the Shingo Publication Award Accelerate your organization to win in the marketplace. How can we apply technology to drive business value? For years, we've been told that the performance of software delivery teams doesn't matter—that it can't provide a competitive advantage to our companies. Through four years of groundbreaking research to include data collected from the State of DevOps reports conducted with Puppet, Dr. Nicole Forsgren, Jez Humble, and Gene Kim set out to find a way to measure software delivery performance—and what drives it—using rigorous statistical methods. This book presents both the findings and the science behind that research, making the information accessible for readers to apply in their own organizations. Readers will discover how to measure the performance of their teams, and what capabilities they should invest in to drive higher performance. This book is ideal for management at every level.**

Acceleration and Automation of Solid Sample Treatment

Elsevier **This book aims to provide scientists with information about a series of techniques that can be used with a view to facilitating the transformation of the sample to an appropriate state for subsequent detection or quantitation of its components of interest. The techniques dealt with range from the very simple ones (e.g. freeze-drying) to other more complex ones (e.g. glow discharge and laser-induced breakdown sampling). This is the first compilation ever on the subjects of acceleration of solid sample pretreatment; automation of solid sample pretreatment; and integration of solid sample pretreatment and detection. Readers will find here the information required to compare and select the best choice for each sample treatment need and ways to facilitate or automate the most complex and time-consuming step of the analytical process when solid samples are involved.**

Towards On-line Adaptive Therapy Through the Automation and Acceleration of Processes on Graphics Processing Units

Adaptive therapies (ART) have potential for improving treatment efficacy, reducing unnecessary exposure of normal tissues, and improving patient quality of life. Ideally, every patient could receive on-line ART, fully optimizing the treatment to their daily anatomy as they lie on the treatment table. Additionally, daily on-line ART would allow reductions in the planned error margins by more certainly locating the tumor targets, providing another avenue for reducing exposure to normal tissues. To date, the computational complexity, labor, and time required to perform the additional tasks necessary for on-line ART has made it an infeasible option for clinical implementation. Accelerating and automating these processes as much as possible will be imperative for clinical integration. Towards this goal, software was developed for performing fast dose calculations, dose accumulation, contour propagation and analysis, deformable image registration (DIR) validation and error quantification, and biomechanical modeling. Each of these processes were accelerated for near real-time performance by parallelization and optimization for the architecture of graphics processing units (GPUs). Brief descriptions of the major contributions are given below. A non-voxel-based dose convolution optimized for GPU architecture achieved over 4000x acceleration compared to a single-threaded implementation. Expanding this algorithm to a multi-GPU cloud-based implementation further increased the acceleration by a factor of two, despite the additional overhead associated with a distributed, cloud-based solution. A DIR and dose accumulation framework was developed to track anatomical changes over the treatment course and estimate the actual delivered dose distribution. This framework was employed in retrospective studies to analyze the dose to the parotid glands for head-and-neck patients, and determine the feasibility of reducing error margins during planning. A biomechanical modelling framework was developed to create patient-specific models from diagnostic imaging. Through GPU implementation, the high-resolution model maintained interactive framerates, for both linear elasticity and the subsequent evolution to hyper-elasticity. To validate the DIR algorithm employed in the dose accumulation framework, clinically realistic deformations were induced in patient-specific biomechanical models, which output simulated imaging volumes with known, ground-truth deformation vector fields. Similar model-generated deformations supplied annotated training data for the development of a neural network able to infer a quantified error estimates for clinical DIR, requiring only image similarity information as input. This methodology delivers a fully automated, fast technique to replace a process that was historically time-consuming, user-biased, and subject to small sample sizes. The works presented focused on head-and-neck patients, but were developed with a general approach and the intent to expand to other sites. With future integration, these tools provide a foundation for building an automated, accelerated pipeline for clinical implementation of on-line ART.

Accelerating Modernization with Agile Integration

IBM Redbooks **The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies, so they can move quickly in a manner appropriate to the goals of multicloud, decentralization, and microservices. The integration layer must transform to allow organizations to move boldly in building new customer experiences, rather than forcing models for architecture and development that pull away from maximizing the organization's productivity. Many organizations have started embracing agile application techniques, such as microservice architecture, and are now seeing the benefits of that shift. This approach complements and accelerates an enterprise's API strategy. Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud. This IBM® Redbooks® publication explores the merits of what we refer to as agile integration; a container-based, decentralized, and microservice-aligned approach for integration solutions that meets the demands of agility, scalability, and resilience required by digital transformation. It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud-native approach and container technology to achieve the goals of agile integration. The target audiences for this book are cloud integration architects, IT specialists, and application developers.**

Social Security's Processing of Attorney Fees

Hearing Before the Subcommittee on Social Security of the Committee on Ways and Means, House of Representatives, One Hundred Seventh Congress, First

Session, May 17, 2001

Acceleration and Improvement of Protein Identification by Mass Spectrometry

Springer Science & Business Media **At present where protein identification and characterisation using mass spectrometry is a method of choice, this book is presenting a review of basic proteomic techniques. The second part of the book is related to the novel high throughput protein identification technique called the 'molecular scanner'. Several protein identification techniques are described, especially the peptide mass fingerprint with MALDI-MS based method. E.g. ionisation process, matrix available, signal reproducibility and suppression effect, as well as date treatment for protein identification using bioinformatics tools.**

Accelerating Cloud Adoption

O'Reilly Media **Many companies move workloads to the cloud only to encounter issues with legacy processes and organizational structures. How do you design new operating models for this environment? This practical book shows IT managers, CIOs, and CTOs how to address the hardest part of any cloud transformation: the people and the processes. Author Mike Kavis (Architecting the Cloud) explores lessons learned from enterprises in the midst of cloud transformations. Youâ??ll learn how to rethink your approach from a technology, process, and organizational standpoint to realize the promise of cost optimization, agility, and innovation that public cloud platforms provide. Learn the difference between working in a data center and operating in the cloud Explore patterns and anti-patterns for organizing cloud operating models Get best practices for making the organizational change required for a move to the cloud Understand why site reliability engineering is essential for cloud operations Improve organizational performance through value stream mapping**

Intelligent Automation Simplified

Learn Enterprise Automation, AI-Led Automation, and Robotic Process Automation with Use-cases (English Edition)

BPB Publications **A guide to understand the potential of Intelligent Automation across businesses and enterprises. KEY FEATURES ● A comprehensive discussion of key concepts, techniques, and key elements of intelligent automation. ● Expert coverage on combining various technologies, including RPA, AI, Blockchain, and IoT. ● Includes case studies and use cases for successful automation applications. ● Precise guidance on how to scale automation in enterprises. DESCRIPTION 'Intelligent Automation Simplified' guides tech professionals to take a much more simplified and sophisticated step towards developing intelligent automation. This book will explain the basic concepts of smart automation and how to put it into practice for a company. This book explores each stage of automation design and explains how these automation fragments can be brought together in the end-to-end automation of workflow. This book discusses numerous examples and scenarios that will help relate and understand how technology can be used in real life to solve business problems. This book provides a lot of information and insights and helps readers grasp the methodology used to develop an automation solution correctly. With detailed illustrations and real use-cases, you will be able to easily create smart automation solutions and practice how to modify them. Towards the end, the book describes how smart automation expands in a company and discusses the various strategies for large-scale use. The book also highlights the latest trends in intelligent automation and its progress into the future of work. WHAT YOU WILL LEARN ● Learn about the essential and primary components of intelligent automation. ● Investigate the capabilities of RPA and AI in the development of Intelligent Automation solutions. ● Recognize the factors that will help you choose the best processes for automation. ● Learn how to use the framework to create an Intelligent Automation solution. ● Create a blueprint to scale automation in the enterprise. ● Discover the most recent Intelligent Automation trends from industry experts. WHO THIS BOOK IS FOR This book is intended for current and future technical professionals who want to learn about Intelligent Automation, plan, and implement it in an enterprise or consult with clients. Readers should be familiar with the software development workflow and have a basic understanding of advanced technologies such as AI and RPA. TABLE OF CONTENTS 1. Introduction to Intelligent Automation 2. Robotic Process Automation 3. Artificial Intelligence in Automation 4. Other technologies in Automation 5. Intelligent Automation Use cases 6. Enterprise Automation Journey 7. Intelligent Automation – Trends and the future**

Green Connected Automated Transportation and Safety

Proceedings of the 11th International Conference on Green Intelligent Transportation Systems and Safety

Springer Nature **These proceedings gather selected papers from the 11th International Conference on Green Intelligent Transportation Systems and Safety, held in Beijing, China on October 17-19, 2020. The book features cutting-edge studies on Green Intelligent Mobility Systems, the guiding motto being to achieve “green, intelligent, and safe transportation systems”. The contributions presented here can help promote the development of green mobility and intelligent transportation technologies to improve interconnectivity, resource sharing, flexibility and efficiency. Given its scope, the book will benefit researchers and engineers in the fields of Transportation Technology and Traffic Engineering, Automotive and Mechanical Engineering, Industrial and System Engineering, and Electrical Engineering alike. The readers will be able to find out the Advances in Green Intelligent Transportation System and Safety.**

North American Tunneling 2022 Proceedings

Society for Mining, Metallurgy & Exploration **Your timely source for more cost-effective and less disruptive solutions to your underground infrastructure needs. The North American Tunneling Conference is the premier biennial tunneling event for North America, bringing together the brightest, most resourceful, and innovative minds in the tunneling industry. It underscores the important role that the industry plans in the development of underground spaces, transportation and conveyance systems, and other forms of sustainable underground infrastructure. With every conference, the number of attendees and breadth of topics grows. The authors—expert and leaders in the industry—share the latest case histories, expertise, lessons learned, and real-world applications from around the globe. Crafted from a collection of 92 papers presented at the conference, this book takes you deep inside the projects. It includes sections on technology, planning, design, and case histories.**

Advances in Automation, Signal Processing, Instrumentation, and Control

Select Proceedings of i-CASIC 2020

Springer Nature **This book presents the select proceedings of the International Conference on Automation, Signal Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields.**

Springer Handbook of Automation

Springer Science & Business Media **This handbook incorporates new developments in automation. It also presents a widespread and well-structured conglomeration of new emerging application areas, such as medical systems and health, transportation, security and maintenance, service, construction and retail as well as production or logistics. The handbook is not only an ideal resource for automation experts but also for people new to this expanding field.**

Hybrid Cloud Infrastructure and Operations Explained

Accelerate your application migration and modernization journey on the cloud with IBM and Red Hat

Packt Publishing Ltd **Modernize and migrate smoothly to hybrid cloud infrastructure and successfully mitigate complexities relating to the infrastructure, platform, and production environment Key Features Presents problems and solutions for application modernization based on real-life use cases Helps design and implement efficient, highly available, and scalable cloud-native applications Teaches you how to adopt a cloud-native culture for successful deployments on hybrid cloud platforms Book Description Most organizations are now either moving to the cloud through modernization or building their apps in the cloud. Hybrid cloud is one of the best approaches for cloud migration and the modernization journey for any enterprise. This is why, along with coding skills, developers need to know the big picture of cloud footprint and be aware of the integration models between apps in a hybrid and multi-**

cloud infrastructure. This book represents an overview of your end-to-end journey to the cloud. To be future agnostic, the journey starts with a hybrid cloud. You'll gain an overall understanding of how to approach migration to the cloud using hybrid cloud technologies from IBM and Red Hat. Next, you'll be able to explore the challenges, requirements (both functional and non-functional), and the process of app modernization for enterprises by analyzing various use cases. The book then provides you with insights into the different reference solutions for app modernization on the cloud, which will help you to learn how to design and implement patterns and best practices in your job. By the end of this book, you'll be able to successfully modernize applications and cloud infrastructure in hyperscaler public clouds such as IBM and hybrid clouds using Red Hat technologies as well as develop secure applications for cloud environments. What you will learn Strategize application modernization, from the planning to the implementation phase Apply cloud-native development concepts, methods, and best practices Select the right strategy for cloud adoption and modernization Explore container platforms, storage, network, security, and operations Manage cloud operations using SREs, FinOps, and MLOps principles Design a modern data insight hub on the cloud Who this book is for This book is for cloud-native application developers involved in modernizing legacy applications by refactoring and rebuilding them. Cloud solution architects and technical leaders will also find this book useful. It will be helpful to have a basic understanding of cloud-native application development and cloud providers before getting started with this book.

Axmedis 2005

Firenze University Press

Automated Technology for Verification and Analysis

Second International Conference, ATVA 2004, Taipei, Taiwan, ROC, October 31 - November 3, 2004. Proceedings

Springer **It was our great pleasure to hold the 2nd International Symposium onAutomated Te- nology on Veri?cation and Analysis (ATVA) in Taipei, Taiwan, ROC, October 31- November3,2004. TheseriesofATVAmeetingsisintendedforthepromotionofrelated research in eastern Asia. In the last decade, automated technology on veri?cation has become the new strength in industry and brought forward various hot research activities in both Europe and USA. In comparison, easternAsia has been quiet in the forum. With more and more IC design houses moving from SiliconValley to easternAsia, we believe this is a good time to start cultivating related research activities in the region. TheemphasisoftheATVAworkshopseriesisonvariousmechanicalandinformative techniques, which can give engineers valuable feedback to fast converge their designs according to the speci?cations. The scope of interest contains the following research - eas: model-checking theory, theorem-proving theory, state-space reduction techniques, languages in automated veri?cation, parametric analysis, optimization, formal perf- mance analysis, real-time systems, embedded systems, in?nite-state systems, Petri nets, UML, synthesis, tools, and practice in industry.**

Using the IBM Spectrum Accelerate Family in VMware Environments: IBM XIV, IBM FlashSystem A9000 and IBM FlashSystem A9000R, and IBM Spectrum Accelerate

IBM Redbooks **This IBM® RedpaperTM publication is a brief overview of synergistic aspects between various VMware offerings and the IBM SpectrumTM Accelerate family, including IBM XIV® and IBM FlashSystem® A9000 and IBM FlashSystem A9000R servers. After reviewing different integration concepts and explaining general implementation aspects for attaching the IBM Spectrum AccelerateTM family to VMware ESXi deployments, the paper focuses on components that are enabled by IBM Spectrum Connect v3.4. This paper is intended for planning to use or implementing the IBM Spectrum Accelerate family of storage systems in a VMware environment.**

The Fast Close Toolkit

John Wiley & Sons **This publication focuses on the critical methods that can be used to dramatically improve the fiscal closing process. The Record to Report (R2R) or Fiscal Closing Process is at the core of the controllership function. The process includes transaction processing, internal and external reporting, and the internal controls—the people, processes, and technology—that constitute the corporate organizational hierarchy. CFOs, controllers, and corporate finance departments require timely, accurate, and consistent data to make appropriate operational and strategic decisions and fulfill statutory, regulatory, and compliance requirements with accurate and timely data. The Fast Close Toolkit offers both strategic and tactical suggestions that can significantly improve the fiscal closing process and**

provides guidance on new legislation requirements, systems and best practice processes. Checklists, templates, process narratives, and sample policies are provided for every component of the fiscal close. Investors and shareholders expect fast and easy access to the data created by current business activities in the information-driven digital age. The Fast Close Toolkit provides the necessary tools and expert advice to improve the fiscal closing process. Authoritative and up to date, this book: Identifies the bottlenecks that can impact the and improvethe fiscal close process and provides best practices to help alleviate these challenges Defines the Record to Report (R2R) and recommends the roles and responsibilities for fiscal close processes flow Offers the internal controls to use for the end-to-end fiscal close process Describes approaches for risk management, R2R, and fiscal close benchmarking Identifies KPIs for all aspects of the R2R process Provides the mechanism for developing a financial close scorecard Recommends leading practices for both external and internal reporting Provides guidance on how strategic planning, the budget and forecast processes can be streamlined to enhance the fiscal close and internal reporting results Written by a respected expert on internal controls and the fiscal closing process, The Fast Close Toolkit is a valuable source of information for professionals involved in controllership and have responsibility for the fiscal close.

Acceleration and Automation of Solid Sample Treatment

Elsevier Science **This book aims to provide scientists with information about a series of techniques that can be used with a view to facilitating the transformation of the sample to an appropriate state for subsequent detection or quantitation of its components of interest. The techniques dealt with range from the very simple ones (e.g. freeze-drying) to other more complex ones (e.g. glow discharge and laser-induced breakdown sampling). This is the first compilation ever on the subjects of acceleration of solid sample pretreatment; automation of solid sample pretreatment; and integration of solid sample pretreatment and detection. Readers will find here the information required to compare and select the best choice for each sample treatment need and ways to facilitate or automate the most complex and time-consuming step of the analytical process when solid samples are involved.**

The Ethics of Artificial Intelligence in Education

Practices, Challenges, and Debates

Taylor & Francis **The Ethics of Artificial Intelligence in Education identifies and confronts key ethical issues generated over years of AI research, development, and deployment in learning contexts. Adaptive, automated, and data-driven education systems are increasingly being implemented in universities, schools, and corporate training worldwide, but the ethical consequences of engaging with these technologies remain unexplored. Featuring expert perspectives from inside and outside the AIED scholarly community, this book provides AI researchers, learning scientists, educational technologists, and others with questions, frameworks, guidelines, policies, and regulations to ensure the positive impact of artificial intelligence in learning.**

Complete Analytics with IBM DB2 Query Management Facility: Accelerating Well-Informed Decisions Across the Enterprise

IBM Redbooks **There is enormous pressure today for businesses across all industries to cut costs, enhance business performance, and deliver greater value with fewer resources. To take business analytics to the next level and drive tangible improvements to the bottom line, it is important to manage not only the volume of data, but the speed with which actionable findings can be drawn from a wide variety of disparate sources. The findings must be easily communicated to those responsible for making both strategic and tactical decisions. At the same time, strained IT budgets require that the solution be self-service for everyone from DBAs to business users, and easily deployed to thin, browser-based clients. Business analytics hosted in the Query Management FacilityTM (QMFTM) on DB2® and System z® allow you to tackle these challenges in a practical way, using new features and functions that are easily deployed across the enterprise and easily consumed by business users who do not have prior IT experience. This IBM® Redbooks® publication provides step-by-step instructions on using these new features: Access to data that resides in any JDBC-compliant data source OLAP access through XMLA 150+ new analytical functions Graphical query interfaces and graphical reports Graphical, interactive dashboards Ability to integrate QMF functions with third-party applications Support for the IBM DB2 Analytics Accelerator A new QMF Classic perspective in QMF for Workstation Ability to start QMF for TSO as a DB2 for z/OS stored procedure New metadata capabilities, including ER diagrams and capability to federate data into a single virtual source**

High-performance Computing Systems and Technologies

in Scientific Research, Automation of Control and Production

11th International Conference, HPCST 2021, Barnaul, Russia, May 21-22, 2021 : Revised Selected Papers

Springer Nature **This book constitutes selected revised and extended papers from the 11th International Conference on High-Performance Computing Systems and Technologies in Scientific Research, Automation of Control and Production, HPCST 2021, Barnaul, Russia, in May 2021. The 32 full papers presented in this volume were thoroughly reviewed and selected form 98 submissions. The papers are organized in topical sections on Hardware for High-Performance Computing and Signal Processing; Information Technologies and Computer Simulation of Physical Phenomena; Computing Technologies in Discrete Mathematics and Decision Making; Information and Computing Technologies in Automation and Control Science; and Computing Technologies in Information Security Applications.**

The Sales Acceleration Formula

Using Data, Technology, and Inbound Selling to go from $0 to $100 Million

John Wiley & Sons **Use data, technology, and inbound selling to build a remarkable team and accelerate sales The Sales Acceleration Formula provides a scalable, predictable approach to growing revenue and building a winning sales team. Everyone wants to build the next $100 million business and author Mark Roberge has actually done it using a unique methodology that he shares with his readers. As an MIT alum with an engineering background, Roberge challenged the conventional methods of scaling sales utilizing the metrics-driven, process-oriented lens through which he was trained to see the world. In this book, he reveals his formulas for success. Readers will learn how to apply data, technology, and inbound selling to every aspect of accelerating sales, including hiring, training, managing, and generating demand. As SVP of Worldwide Sales and Services for software company HubSpot, Mark led hundreds of his employees to the acquisition and retention of the company's first 10,000 customers across more than 60 countries. This book outlines his approach and provides an action plan for others to replicate his success, including the following key elements: Hire the same successful salesperson every time — The Sales Hiring Formula Train every salesperson in the same manner — The Sales Training Formula Hold salespeople accountable to the same sales process — The Sales Management Formula Provide salespeople with the same quality and quantity of leads every month — The Demand Generation Formula Leverage technology to enable better buying for customers and faster selling for salespeople Business owners, sales executives, and investors are all looking to turn their brilliant ideas into the next $100 million revenue business. Often, the biggest challenge they face is the task of scaling sales. They crave a blueprint for success, but fail to find it because sales has traditionally been referred to as an art form, rather than a science. You can't major in sales in college. Many people question whether sales can even be taught. Executives and entrepreneurs are often left feeling helpless and hopeless. The Sales Acceleration Formula completely alters this paradigm. In today's digital world, in which every action is logged and masses of data sit at our fingertips, building a sales team no longer needs to be an art form. There is a process. Sales can be predictable. A formula does exist.**

Practical Linux Infrastructure

Apress **Practical Linux Infrastructure teaches you how to use the best open source tools to build a new Linux infrastructure, or alter an existing infrastructure, to ensure it stands up to enterprise-level needs. Each chapter covers a key area of implementation, with clear examples and step-by-step instructions. Using this book, you'll understand why scale matters, and what considerations you need to make. You'll see how to switch to using Google Cloud Platform for your hosted solution, how to use KVM for your virtualization, how to use Git, Postfix, and MySQL for your version control, email, and database, and how to use Puppet for your configuration management. For enterprise-level fault tolerance you'll use Apache, and for load balancing and high availability, you'll use HAProxy and Keepalived. For trend analysis you'll learn how to use Cacti, and for notification you'll use Nagios. You'll also learn how to utilize BIND to implement DNS, how to use DHCP (Dynamic Host Configuration Protocol), and how to setup remote access for your infrastructure using VPN and Iptables. You will finish by looking at the various tools you will need to troubleshoot issues that may occur with your hosted infrastructure. This includes how to use CPU, network, disk and memory management tools such as top, netstat, iostat and vmstat. Author Syed Ali is a senior site reliability engineering manager, who has extensive experience with virtualization and Linux cloud based infrastructure. His previous experience as an entrepreneur in infrastructure computing offers him deep insight into how a business can leverage the power of Linux to their advantage. He brings his expert knowledge to this book to teach others how to perfect their Linux environments. Become a Linux infrastructure pro with Practical Linux Infrastructure today.**

Pandemics and Automation: Will the Lost Jobs Come Back?

International Monetary Fund **COVID-19 has exacerbated concerns about the rise of the robots and other automation technologies. This paper analyzes empirically the impact of past major pandemics on robot adoption and inequality. First, we find that pandemic events accelerate robot adoption, especially when the health impact is severe and is associated with a significant economic downturn. Second, while robots may raise productivity, they could also increase inequality by displacing low-skilled workers. We find that following a pandemic, the increase in inequality over the medium term is larger for economies with higher robot density and where new robot adoption has increased more. Our results suggest that the concerns about the rise of the robots amid the COVID-19 pandemic seem justified.**

Information Computing and Automation

Proceedings of the International Conference on Advanced Mechanical Engineering, Automation, and Sustainable Development 2021 (AMAS2021)

Springer Nature **This book presents selected, peer-reviewed proceedings of the International Conference on Advanced Mechanical Engineering, Automation and Sustainable Development 2021 (AMAS2021), held in the city of Ha Long, Vietnam, from November 4 to 7, 2021. AMAS2021 is a special meeting of the International Conference on Material, Machines and Methods for Sustainable Development (MMMS), with a strong focus on automation and fostering an overall approach to assist policy makers, industries, and researchers at various levels to position local technological development toward sustainable development. The contributions published in this book stem from a wide spectrum of research, ranging from micro- and nanomaterial design and processing, to special applications in mechanical technology, environmental protection, green development, and climate change mitigation. A large group of contributions selected for these proceedings also focus on modeling and manufacturing of ecomaterials.**

Automation and Technological Change

Report of the Subcommittee on Economic Stabilization to ....

Automation and Technological Change

Hearings Before the Subcommittee on Economic Stabilization of the Joint Committee on the Economic Report, Congress of the United States, Eighty-fourth Congress, First Session, Pursuant to Sec. 5 (a) of Public Law 304, 79th Congress

Automation and Technological Change

Hearings Before the United States Joint Committee on the Economic Report, Subcommittee on Economic

Stabilization, Eighty-Fourth Congress, First Session, on Oct. 14, 15, 17, 18, 24-28, 1955

Examines industrial and employment impact of automation.

Advanced Manufacturing and Sustainable Logistics

8th International Heinz Nixdorf Symposium, IHNS 2010, Paderborn, Germany, April 21-22, 2010, Proceedings

Springer **This book constitutes the proceedings of the 8th International Heinz Nixdorf Symposium, IHNS 2010, held in Paderborn, Germany, April 21-22, 2010, under the title "Changing Paradigms: Advanced Manufacturing and Sustainable Logistics". The 27 full and two short papers presented in this book were carefully reviewed and selected from a total of 63 submissions. They are grouped in five parts on Supply Chain Management, Production Logistics and Industrial Engineering, Operations Research Techniques, Humanitarian Logistics, and Simulation. The presentation is completed by nine invited keynote papers from renowned international experts in these fields.**

Applied Mechanics, Mechatronics Automation & System Simulation

Trans Tech Publications Ltd **The proceedings of the 2012 International Applied Mechanics, Mechatronics Automation & System Simulation Meeting (AMMASS2012), held on June 24-26th 2012 in Hangzhou (Zhejiang, China), comprise 351 peer-reviewed papers grouped into 6 chapters: Materials and Mechanical Engineering; Computer Science and Computational Science, Information Processing; Modeling and Simulation; Electronic Engineering, Automation and Control; Algorithm Design and Applications; Communication and Networks**

Agile Business Architecture for Digital Transformation

Architectural Leadership for Competitive Business Value

Digitalmehmet **We are in a frenetic and a convoluted digital age. Every organisation strives to transform its business to stay competitive in this exponentially growing digital world. Digital transformation became pervasive and ubiquitous in all business ventures. This new norm of constant transformation requires architecting our business and underlying technology stacks rapidly. Establishing agile business architecture frameworks are fundamental requirements to achieve successful digital transformation outcomes. In this book, I attempt to share my knowledge and experience using a rigorous yet agile architectural method. My aim is to add accelerated value to the broader business architecture and digital transformation communities by focusing on the practical aspect with minimal emphasis on the theoretical aspect. The content in this book is based on my architectural thought leadership experience gained in multiple large business and enterprise architecture initiatives, focusing on business capabilities, digital transformation initiatives, and enterprise modernisation engagements, reflecting hard lessons learned in these applied settings. In this book I attempt to redefine the role of business architects as primary leaders for digital transformation programs. The content reflects my experience and observations from the field. As a caveat, this book is not based on theories in the traditional business architecture textbooks which may conflict with my experience. My beta readers found this as a unique guide reflecting reality from the field. Hope it adds new insights for your role in the business digital transformation initiatives.**

Handbook of Research on Digital Transformation Management and Tools

IGI Global **Advances in digital technologies continue to impact all areas of life, including the business sector. Digital transformation is ascertained to usher in the digitalized economy and involves new concepts and management tools that must be considered in the context of management science and practice. For business leaders to ensure their companies remain competitive and relevant, it is essential for them to utilize these innovative technologies and strategies. The Handbook of Research on Digital Transformation Management and Tools highlights new digital concepts within management, such as digitalization and digital disruption, and addresses the paradigm shift in management science incurred by the digital transformation towards the digitalized economy. Covering a range of important topics such as cultural economy, online consumer behavior, sustainability, and social media, this major reference work is crucial for managers, business owners, researchers, scholars, academicians, practitioners,**

instructors, and students.

The Revenue Acceleration Rules

Supercharge Sales and Marketing Through Artificial Intelligence, Predictive Technologies and Account-Based Strategies

John Wiley & Sons **Turn data into revenue in the B2B marketing sphere The Revenue Acceleration Rules is a unique guide in the business-to-business space, providing a clear framework for more effective marketing in an accounts-based environment. Written by a veteran in the predictive marketing sphere, this book explains how strategies typically used on the consumer end can be tailored to drive revenue in B2B sales. Industry experts offer advice and best practices, using real-world examples to illustrate the power of analytics and on-the-ground implementation of predictive ABM initiatives. Covering the complete spectrum from "why?" to "how?", this book provides an invaluable resource for B2B marketers seeking a step forward in the rapidly-evolving marketplace. Business-to-business sales makes up roughly 45 percent of the economy, and the power of predictive marketing has been proven time and again in the consumer sphere. This guide is the only resource to merge these two critical forces and provide clear guidance for the B2B space. Supercharge your demand waterfall Align marketing and sales Learn best practices from industry experts Grow revenue with account-based marketing Predictive marketing reveals the small clues that speak to big trends. While B2B diverges from consumer marketing in a number of ways, the central demand for value remains; analytics helps you stay ahead of the curve, streamline the marketing to sales funnel, and increase ROI. Strengthen the relationships you already have, attract new accounts, and prioritize accurately to turn contacts into leads, and leads into customers. Your data can be your biggest marketing asset, and The Revenue Acceleration Rules shows you how to leverage it into revenue.**

Cybernetics and Automation Control Theory Methods in Intelligent Algorithms

Proceedings of 8th Computer Science On-line Conference 2019, Vol. 3

Springer **This book discusses novel intelligent-system algorithms and methods in cybernetics, presenting new approaches in the field of cybernetics and automation control theory. It constitutes the proceedings of the Cybernetics and Automation Control Theory Methods in Intelligent Algorithms Section of the 8th Computer Science On-line Conference 2019 (CSOC 2019), held on-line in April 2019.**

Automation and Robotics

BoD – Books on Demand **In this book, a set of relevant, updated and selected papers in the field of automation and robotics are presented. These papers describe projects where topics of artificial intelligence, modeling and simulation process, target tracking algorithms, kinematic constraints of the closed loops, non-linear control, are used in advanced and recent research.**

Site Reliability Engineering

How Google Runs Production Systems

"*O'Reilly Media, Inc.*" **In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world.**

Informatics in Control Automation and Robotics

Selected Papers from the International Conference on

Informatics in Control Automation and Robotics 2006

Springer Science & Business Media **The present book includes a set of selected papers from the third “International Conference on Informatics in Control Automation and Robotics” (ICINCO 2006), held in Setúbal, Portugal, from 1 to 5 August 2006, sponsored by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC). The conference was organized in three simultaneous tracks: “Intelligent Control Systems and Optimization”, “Robotics and Automation” and “Systems Modeling, Signal Processing and Control”. The book is based on the same structure. Although ICINCO 2006 received 309 paper submissions, from more than 50 different countries in all continents, only 31 where accepted as full papers. From those, only 23 were selected for inclusion in this book, based on the classifications provided by the Program Committee. The selected papers also reflect the interdisciplinary nature of the conference. The diversity of topics is an important feature of this conference, enabling an overall perception of several important scientific and technological trends. These high quality standards will be maintained and reinforced at ICINCO 2007, to be held in Angers, France, and in future editions of this conference.**

Handbook of Artificial Intelligence and Robotic Process Automation

Policy and Government Applications

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