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KEY=SOLUTIONS - ALEXIS AINSLEY

Real-World Solutions for Developing High-Quality PHP Frameworks and Applications John Wiley & Sons Learn to develop high-quality applications and frameworks in PHP Packed with in-depth information and step-by-step guidance, this book escorts you through the process of creating, maintaining and extending sustainable software of high quality with PHP. World-renowned PHP experts present real-world case studies for developing high-quality applications and frameworks in PHP that can easily be adapted to changing business requirements. . They offer different approaches to solving typical development and quality assurance problems that every developer needs to know and master. Details the process for creating high-quality PHP frameworks and applications that can easily be adapted to changing business requirements Covers the planning, execution, and automation of tests for the different layers and tiers of a Web application Demonstrates how to establish a successful development process Shares real-world case studies from well-known companies and their PHP experts With this book, you'll learn to develop high-quality PHP frameworks and applications that can easily be maintained with reasonable cost and effort. Krav Maga Real World Solutions to Real World Violence - Disrupt . Damage . Destroy . Disengage Tuttle Publishing Krav Maga: Real World Solutions to Real World Violence presents a no-nonsense approach to neutralizing attackers in close quarters. Author Gershon Ben Keren explains the philosophy behind the Krav Maga method, which is the basis of the Israel Defense Force's (IDF) devastating close combat system. This book lays out a systematic approach to self-defense and provides illustrated confrontation scenarios paired with tailored practical responses. Accompanied by clear, easy-to-follow photographs, practical combat skills are described in step-by-step detail, along with the movement patterns needed to make them effective in real-life settings. All of the photos in the book were shot in real-time, demonstrating what realistic movements—both from the attacker's and defender's perspective—look like. Where applicable, techniques have been shot in the scenarios in which they occur such as bars, restrooms, ATMs, etc. The situational components of such violent incidents are explained, so the reader can learn to identify, predict, and avoid violence before it occurs. Contents of this Krav Maga book include: What is Krav Maga? Krav Maga Yashir Introduction to author Gershon Ben Keren Basic Skills (Stances, Movement, Blocking and Striking)—The Timeline of Violence; Controlling Range; Relative Body Positioning; Groin Kick; Driving Knee Self-Defense Scenarios—Knife Disarming; Gun to Front of Body; Abductions and Hostage Taking; Knife Shank; Improvised Weapons Unarmed Assaults and Dynamic Components of Violence—Preventing a Front Headlock; Applying an Effective Guillotine; Defending Knees in a Clinch and more! Applied Computational Thinking with Python Design algorithmic solutions for complex and challenging real-world problems Packt Publishing Ltd Applied Computational Thinking with Python provides a hands-on approach to implementation and associated methodologies that will have you up-and-running, and productive in no time. Developers working with Python will be able to put their knowledge to work with this practical guide using the computational thinking method for problem-solving. PRODUCTION MANAGEMENT IN THE REEL WORLD Real Stories - Real Problems - Real Solutions A World at the Crossroads: New Conflicts, New Solutions Annals of Pugwash 1993 World Scientific This book focuses on subjects of great topical interest, such as nuclear disarmament, trade in arms, peacekeeping and conflict resolution, environmental security and sustainability. Major themes include the elimination of nuclear weapons, control of the arms trade, the role of multinational and international organizations in peace-keeping, environmental sustainability and security in the Nordic/Baltic region. Contents: Towards a Nuclear-Weapon-Free World Arms Reduction and Transfer The Resolution of Conflicts Equity and Sustainability Global Environmental Security Security in the Nordic/Baltic Region Readership: Persons interested in world affairs and the environment. keywords: World At The Crossroads: New Conflicts New Solutions A - Proceedings Of The 43rd Pugwash Conference On Science And World Affairs World Scientific Photonics and nanotechnology are popular emerging fields of technology. This proceedings volume contains over 12 selected papers from the International Workshop and Conference on Photonics and Nanotechnology (ICPN) 2007, held in Pattaya, Thailand, from December 16-18, 2007. The papers cover a wide range of topics, from optical and nonlinear optical physics to nanoelectronics. Quantum Computing Solutions Solving Real-world Problems Using Quantum Computing and Algorithms Know how to use quantum computing solutions involving artificial intelligence (AI) algorithms and applications across different disciplines. Quantum solutions involve building quantum algorithms that improve computational tasks within quantum computing, AI, data science, and machine learning. As opposed to quantum computer innovation, quantum solutions offer automation, cost reduction, and other efficiencies to the problems they tackle. Starting with the basics, this book covers subsystems and properties as well as the information processing network before covering quantum simulators. Solutions such as the Traveling Salesman Problem, quantum cryptography, scheduling, and cybersecurity are discussed in step-by-step detail. The book presents code samples based on real-life problems in a variety of industries, such as risk assessment and fraud detection in banking. In pharma, you will look at drug discovery and protein-folding solutions. Supply chain optimization and purchasing solutions are presented in the manufacturing domain. In the area of utilities, energy distribution and optimization problems and solutions are explained. Advertising scheduling and revenue optimization solutions are included from media and technology verticals. You will: Understand the mathematics behind quantum computing Know the solution benefits, such as automation, cost reduction, and efficiencies Be familiar with the quantum subsystems and properties, including states, protocols, operations, and transformations Be aware of the quantum classification algorithms: classifiers, and support and sparse support vector machines Use AI algorithms, including probability, walks, search, deep learning, and parallelism. AspectJ Cookbook "O'Reilly Media, Inc." When Object Oriented programming (OO) first appeared, it was a revelation. OO gave developers the ability to create software that was more flexible and robust, but as time went on and applications became more sophisticated, too, certain areas of "traditional" OO architectures were found wanting. Aspect-oriented programming (AOP) addresses those issues by extending the OO approach even further. Many developers are interested in AOP--especially in AspectJ, the open source extension of the Java programming language that explicitly supports the AOP approach. Yet, although AspectJ is included with Eclipse, the increasingly popular open source IDE for Java, finding a practical and non-theoretical way to learn this language and other AOP tools and techniques has been a real problem. Until now. The AspectJ Cookbook offers a hands-on solution--in fact, several--with a wide variety of code recipes for solving day-to-day design and coding problems using AOP's unique approach. AOP allows the global properties of a program to determine how it's compiled into an executable program. Before AOP, important program design decisions were difficult to capture in actual code. Instead, the implementation of those design decisions--known as "aspects"--were scattered throughout, resulting in "tangled" code that was hard to develop and maintain. AOP has been compared to the manufacturing of cloth, in which threads are automatically interwoven. Without AOP, programmers must stitch the threads by hand. The AspectJ Cookbook shows readers why, and how, common Java development problems can be solved by using AOP techniques. With our popular problem-solution-discussion format, the book presents real world examples to demonstrate that AOP is more than just a concept; it's a development process that will benefit users in an immediate and visible manner. If you're interested in how AOP is changing the way software is developed, and how you can use AspectJ to make code more modular, easier to develop, maintain, evolve and deploy, this is the book that really delivers. ISA Server and Beyond Real World Security Solutions for Microsoft Enterprise Networks Syngress This title is written, reviewed and field tested by the Microsoft network and security engineers who bring their real-world experiences to provide an entertaining, thought-provoking and practical guide to securing Microsoft networks. Quantum Computing Solutions Solving Real-World Problems Using Quantum Computing and Algorithms Apress Know how to use quantum computing solutions involving artificial intelligence (AI) algorithms and applications across different disciplines. Quantum solutions involve building quantum algorithms that improve computational tasks within quantum computing, AI, data science, and machine learning. As opposed to quantum computer innovation, quantum solutions offer automation, cost reduction, and other efficiencies to the problems they tackle. Starting with the basics, this book covers subsystems and properties as well as the information processing network before covering quantum simulators. Solutions such as the Traveling Salesman Problem, quantum cryptography, scheduling, and cybersecurity are discussed in step-by-step detail. The book presents code samples based on real-life problems in a variety of industries, such as risk assessment and fraud detection in banking. In pharma, you will look at drug discovery and protein-folding solutions. Supply chain optimization and purchasing solutions are presented in the manufacturing domain. In the area of utilities, energy distribution and optimization problems and solutions are explained. Advertising scheduling and revenue optimization solutions are included from media and technology verticals. What You Will Learn Understand the mathematics behind quantum computing Know the solution benefits, such as automation, cost reduction, and efficiencies Be familiar with the quantum subsystems and properties, including states, protocols, operations, and transformations Be aware of the quantum classification algorithms: classifiers, and support and sparse support vector machines Use AI algorithms, including probability, walks, search, deep learning, and parallelism Who This Book Is For Developers in Python and other languages interested in quantum solutions. The secondary audience includes IT professionals and academia in mathematics and physics. A tertiary audience is those in industry verticals such as manufacturing, banking, and pharma. World Peace! A Simple Solution AiR Institute of Realization The world is in pieces. It is fragmented by differences, endless disputes and wars. We all want Peace, yet Peace eludes us. There is a simple solution to attain World Peace! What is the way out of these conflicts? If only we Realize the Truth of who we truly are and why we are here, all this bloodshed will end and this world will become a Peaceful Heaven on earth. But for the world to transform, we must first transform ourselves. This insightful and inspiring book by AiR offers a simple but sure solution for World Peace. Watch this video for a small trailer of the book: <https://www.youtube.com/watch?v=OeIXMI1Mzdg> The Metabolic Solution Lulu.com Data Push Apps with HTML5 SSE Pragmatic Solutions for Real-World Clients "O'Reilly Media, Inc." Make sure your website or web application users get content updates right now with minimal latency. This concise guide shows you how to push new data from the server to clients with HTML5 Server-Sent Events (SSE), an exceptional technology that doesn't require constant polling or user interaction. You'll learn how to build a real-world SSE application from start to finish that solves a demanding domain problem. You'll also discover how to increase that application's desktop and mobile browser support from 60% to 99%, using different fallback solutions. If you're familiar with HTML, HTTP, and basic JavaScript, you're ready to get started. Determine whether SSE, WebSockets, or data pull is best for your organization Develop a working SSE application complete with backend and frontend solutions Address error handling, system recovery, and other issues to make the application production-quality Explore two fallback solutions for browsers that don't support SSE Tackle security issues, including authorization and "disallowed origin" Develop realistic, repeatable data that's useful in test-driven SSE design Learn SSE protocol elements not covered in the example application Paperless Real-World Solutions with Adobe Technology Adobe Press Streamline your organization by replacing paper documents with electronic solutions Paperless is one part inspiration and two parts instruction. You will be inspired by real-world case studies as you meet people who have brought paperless change to their organizations. You will learn what worked and how you can apply these experiences to your own work. Meet lawyers, doctors, and business leaders who have transformed their operations with Adobe technology. Also, learn how city, state, and federal governments are saving money and providing better services with paperless solutions. The inspiration is just the beginning. The majority of this book is instruction on Adobe's most important paperless technologies. Each section is full of hands-on demos that will show you how to get real business value from products you may already own. You will learn how to create and use digital signatures, certify PDFs, and integrate dynamic documents with your existing systems. This book explains all you need to know to be on your way to a paperless future. • Read the stories of those who have created today's leading-edge paperless solutions. • Learn how the

Federal Government uses certified PDFs and how New York State uses e-Forms to save millions of dollars. • Find out how the Kane County court system takes advantage of PDF forms to protect abuse victims. • See how one doctor is reducing Medicare costs by replacing expensive emergency room visits with paperless house calls. • Follow in-depth lessons on Acrobat®, LiveCycle® Designer, LiveCycle® ES/ES2, and InDesign® Server. • Download demos, source code, and sample files to use with the book's exercises (www.paperlessbook.info). "Using real-world examples, such as the ones in J.P. Terry's Paperless, to illustrate how PDF can be used to move from paper to electronic processes is a simple-to-understand, yet very powerful learning tool for business and government alike." — Lori DeFurio, Group Product Manager, Acrobat, Adobe Systems "In Paperless, J.P. Terry weaves the business case and technical implementation into a complete story on how a variety of businesses have benefited from Adobe solutions. This book is an enjoyable read and a must-have reference for automating business processes." — Jeff Stanier, Senior Product Manager, Adobe LiveCycle

The World's Problems and Solutions: Diversity Issues Analysis Dealing with Human Race, Human Rights, Philosophy, Scientific, Religious, and World Economic Issues [AuthorHouse](#) My sixth book, *The World's Problems and Solutions*, discusses many issues concerning the world, and from these debates, analysis, and development, many people in the world will find the solution to most of the problems in their countries. There is not only one problem, such as the world financial crisis - there are many crises that affect the world. From my research, I believe that there is also war on religion that affects the world, and the governments have a duty to serve the population rather than the population serving the governments. I discover there is even a problem about the human race as a whole: scientist experiments do not provide exact information because they are still discovering more information about the human race. Many people have their own philosophical methods to find the solutions in their continent and also in their countries. Therefore my research and analysis seeks to expose the solution to many problems in the world. The politicians, governments, religions, and others world institutions will find this book very interesting for humanity's development. **Getting Results with Microsoft Access 97 Real World Solutions for the Work You Do A Tiling Approach to Producing High Quality Solutions to Real World Timetabling Problems Preventing Hospital Infections Real-World Problems, Realistic Solutions** [Oxford University Press](#) The first edition of *Preventing Hospital Infections* led readers through a step-by-step description of a quality improvement intervention as it might unfold in a model hospital, pinpointing the likely obstacles and offering practical strategies for how to overcome them. This newly updated edition draws on fresh examples and modern clinical tools, with new or expanded topics spanning antimicrobial resistance and antimicrobial stewardship, RAND/UCLA appropriateness criteria for using devices, and tiered approaches to CAUTI, CLABSI, and CDI. Unlike other approaches, which focus on the technical aspects of healthcare-associated infections, this book offers a user-friendly manual for effecting real, practical change. Whether resistance comes from physicians who distrust change, nurses who want to protect their turf, or infection preventionists who are removed from the day-to-day work on wards, *Preventing Hospital Infections, 2nd Edition* offers an innovative and accessible approach that focuses on navigating the human element in a hospital quality improvement initiative. **Game Theoretic Problems in Network Economics and Mechanism Design Solutions** [Springer Science & Business Media](#) This monograph focuses on exploring game theoretic modeling and mechanism design for problem solving in Internet and network economics. For the first time, the main theoretical issues and applications of mechanism design are bound together in a single text. **Network World** For more than 20 years, *Network World* has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. **Creating Instructional Multimedia Solutions Practical Guidelines for the Real World** [Informing Science](#) **Investigations Into Living Systems, Artificial Life, and Real-world Solutions** "This book provides original research on the theoretical and applied aspects of artificial life, as well as addresses scientific, psychological, and social issues of synthetic life-like behavior and abilities"-- **The Committee to Destroy the World Inside the Plot to Unleash a Super Crash on the Global Economy** [John Wiley & Sons](#) An updated examination of what's weakening the U.S. economy, and how to fix it **The Committee to Destroy the World: Inside the Plot to Unleash a Super Crash on the Global Economy** is a passionate and informed analysis of the struggling global economy. In this masterfully conceived and executed work, Michael Lewitt, one of Wall Street's most respected market strategists and money managers, updates his groundbreaking examination of the causes of the 2008 crisis and argues that economic and geopolitical conditions are even more unstable today. His analysis arrives in time for the impending economic and geopolitical debates of the 2016 election season. Lewitt explains in detail how debt has now overrun the world's capacity, how federal policies of the past few decades have created a downward vortex sapping growth and vitality from the American economy, and how greed and corruption are preventing reform. The financial crisis created tens of trillions of debt, leaving investors to pay a huge price for these policy failures: The highest asset inflation we've seen in our lifetimes, although the government claims there isn't enough inflation More than \$2 trillion of stock buybacks funded with low cost debt that are artificially inflating stock prices The Federal Reserve and other global central banks becoming the largest buyers of government debt in order to suppress interest rates An M&A boom resulting from companies needing to find growth outside of their core businesses While the financial media misses the story, Lewitt pulls no punches explaining how all of these trends are leading to the brink of another crisis. Lewitt lays out a survival plan for the average investor to protect their assets when the debt bubble bursts. The first edition of this book expressed hope that policymakers would not let the financial crisis go to waste. This book urges investors to learn from the crushed hope and take action before the next crisis. **Multi-Objective Optimization using Evolutionary Algorithms** [John Wiley & Sons](#) Evolutionary algorithms are relatively new, but very powerful techniques used to find solutions to many real-world search and optimization problems. Many of these problems have multiple objectives, which leads to the need to obtain a set of optimal solutions, known as effective solutions. It has been found that using evolutionary algorithms is a highly effective way of finding multiple effective solutions in a single simulation run. Comprehensive coverage of this growing area of research Carefully introduces each algorithm with examples and in-depth discussion Includes many applications to real-world problems, including engineering design and scheduling Includes discussion of advanced topics and future research Can be used as a course text or for self-study Accessible to those with limited knowledge of classical multi-objective optimization and evolutionary algorithms The integrated presentation of theory, algorithms and examples will benefit those working and researching in the areas of optimization, optimal design and evolutionary computing. This text provides an excellent introduction to the use of evolutionary algorithms in multi-objective optimization, allowing use as a graduate course text or for self-study. **Practical Qt Real World Solutions to Real World Problems Hadoop Real-World Solutions Cookbook** [CreateSpace](#) **Introduction Data warehousing** is a success, judging by its 25 year history of use across all industries. Business intelligence met the needs it was designed for: to give non-technical people within the organization access to important, shared data. During the same period that data warehousing and BI matured, the automation and instrumenting of almost all processes and activities changed the data landscape in most companies. Where there were only a few applications and minimal monitoring 25 years ago, there is ubiquitous computing and data available about every activity today. Data warehouses have not been able to keep up with business demands for new sources of information, new types of data, more complex analysis and greater speed. Companies can put this data to use in countless ways, but for most it remains uncollected or unused, locked away in silos within IT. There has been a gradual maturing of data use in organizations. In the early days of BI it was enough to provide access to core financial and customer transactions. Better access enabled process changes, and these led to the need for more data and more varied uses of information. These changes put increasing strain on information processing and delivery capabilities that were designed under assumptions of stability and common use. Most companies now have a backlog of new data and analysis requests that BI groups are struggling to meet. Big data is not simply about growing data volumes - it's also about the fact that the data being collected today is different in ways that make it unwieldy for conventional databases and BI tools. Big data is also about new technologies that were developed to support the storage, retrieval and processing of this new data. The technologies originated in the world of web applications and internet-based companies, but they are now spreading into enterprise applications of all sorts. New technology coupled with new data enables new practices like real-time monitoring of operations across retail channels, supply chain practices at finer grain and faster speed, and analysis of customers at the level of individual activities and behaviors. Until recently, large scale data collection and analysis capabilities like these would have required a Wal-Mart sized investment, limiting them to large organizations. These capabilities are now available to all, regardless of company size or budget. This is creating a rush to adopt big data technologies. As the use of big data grows, the need for data management will grow. Many organizations already struggle to manage existing data. Big data adds complexity, which will only increase the challenge. The combination of new data and new technology requires new data management capabilities and processes to capture the promised long-term value. Wal-Mart handles more than a million customer transactions each hour and imports those into databases estimated to contain more than 2.5 petabytes of data. Radio frequency identification (RFID) systems used by retailers and others can generate 100 to 1,000 times the data of conventional bar code systems. Facebook handles more than 250 million photo uploads and the interactions of 800 million active users with more than 900 million objects (pages, groups, etc.) - each day. More than 5 billion people are calling, texting, tweeting and browsing on mobile phones worldwide. Organizations are inundated with data - terabytes and petabytes of it. To put it in context, 1 terabyte contains 2,000 hours of CD-quality music and 10 terabytes could store the entire US Library of Congress print collection. Exabytes, zettabytes and yottabytes definitely are on the horizon . Data is pouring in from every conceivable direction: from operational and transactional systems, from scanning and facilities management systems, from inbound and outbound customer contact points, from mobile media and the Web . **Applied Geologic Remote Sensing Practical Solutions for Real World Problems Real-world Skin Solutions The Nature, Nurture, and Science of Modern Skin Care Your largest organ has become big business. Now the last line of defense between marketers and your skin is your brain. Get the clear facts about the nature of your skin, the nurture of your skin, and the science of your skin. Neural Networks for Real World Tasks Limitations and Solutions Simulation-based Lean Six-Sigma and Design for Six-Sigma** [John Wiley & Sons](#) This is the first book to completely cover the whole body of knowledge of Six Sigma and Design for Six Sigma with Simulation Methods as outlined by the American Society for Quality. Both simulation and contemporary Six Sigma methods are explained in detail with practical examples that help understanding of the key features of the design methods. The systems approach to designing products and services as well as problem solving is integrated into the methods discussed. **Nature Inspired Optimisation for Delivery Problems From Theory to the Real World** [Springer Nature](#) This book explains classic routing and transportation problems and solutions, before offering insights based on successful real-world solutions. The chapters in Part I introduce and explain the traveling salesperson problem (TSP), vehicle routing problems (VRPs), and multi-objective problems, with an emphasis on heuristic approaches and software engineering aspects. In turn, Part II demonstrates how to exploit geospatial data, routing algorithms, and visualization. In Part III, the above techniques and insights are combined in real-world success stories from domains such as food delivery in rural areas, postal delivery, workforce routing, and urban logistics. The book offers a valuable supporting text for advanced undergraduate and graduate courses and projects in Computer Science, Engineering, Operations Research, and Mathematics. It is accompanied by a repository of source code, allowing readers to try out the algorithms and techniques discussed. **180 Days: Hands-On STEAM: Grade 6 ebook** [Teacher Created Materials](#) Incorporate hands-on lab activities that integrate STEAM concepts with 180 days of daily practice! This invaluable resource provides weekly STEAM activities that improve students' critical-thinking skills, and are easy to incorporate into any learning environment. Students will explore STEAM concepts through the inquiry process with hands-on lab activities. Each week introduces a STEAM problem, need, or phenomena that they will address through a guided step-by-step challenge. Aligned to Next Generation Science Standards (NGSS) and state standards, this resource includes digital materials. Provide students with the skills they need to think develop problem-solving skills with this essential resource! **IEEE Computer Society Real-World Software Engineering Problems A Self-Study Guide for Today's Software Professional** [John Wiley & Sons](#) Key problems for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program IEEE Computer Society Real-World Software Engineering Problems helps prepare software engineering professionals for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program. The book offers workable, real-world sample problems with solutions to help readers solve common problems. In addition to its role as the definitive preparation guide for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program, this resource also serves as an appropriate guide for graduate-level courses in software engineering or for professionals interested in sharpening or refreshing their skills. The book includes a comprehensive collection of sample problems, each of which includes the problem's statement, the solution,

an explanation, and references. Topics covered include: * Engineering economics * Test * Ethics * Maintenance * Professional practice * Software configuration * Standards * Quality assurance * Requirements * Metrics * Software design * Tools and methods * Coding * SQA and V & V IEEE Computer Society Real-World Software Engineering Problems offers an invaluable guide to preparing for the IEEE Computer Society Certified Software Development Professional (CSDP) Certification Program for software professionals, as well as providing students with a practical resource for coursework or general study. Emerging Trends in Intelligent and Interactive Systems and Applications Proceedings of the 5th International Conference on Intelligent, Interactive Systems and Applications (IISA2020) Springer Nature This book reports on the proceeding of the 5th International Conference on Intelligent, Interactive Systems and Applications (IISA 2020), held in Shanghai, China, on September 25-27, 2020. The IISA proceedings, with the latest scientific findings, and methods for solving intriguing problems, are a reference for state-of-the-art works on intelligent and interactive systems. This book covers nine interesting and current topics on different systems' orientations, including Analytical Systems, Database Management Systems, Electronics Systems, Energy Systems, Intelligent Systems, Network Systems, Optimization Systems, and Pattern Recognition Systems and Applications. The chapters included in this book cover significant recent developments in the field, both in terms of theoretical foundations and their practical application. An important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems. THAT SUCKS - WHAT NOW? Real-World Solutions for Getting Through What You're Going Through Combinatorial Optimization and Applications 8th International Conference, COCOA 2014, Wailea, Maui, HI, USA, December 19-21, 2014, Proceedings Springer This book constitutes the refereed proceedings of the 8th International Conference on Combinatorial Optimization and Applications, COCOA 2014, held on the island of Maui, Hawaii, USA, in December 2014. The 56 full papers included in the book were carefully reviewed and selected from 133 submissions. Topics covered include classic combinatorial optimization; geometric optimization; network optimization; optimization in graphs; applied optimization; CSoNet; and complexity, cryptography, and games. The Workflow Imperative Building Real World Business Solutions Van Nostrand Reinhold Company Written by an authority on workflow technology and methods, this book provides a thorough and easy-to-understand explanation of the workflow concept, its benefits, and its implementation. Using four real-world case studies, the book shows how workflow processes and tools work, offers guidance for analyzing the effectiveness of various tools and design methodologies for workflow analysis, and provides definitions of new terms and technologies. Improving Homeland Security Decisions Cambridge University Press What are the risks of terrorism and what are their consequences and economic impacts? Are we safer from terrorism today than before 9/11? Does the government spend our homeland security funds well? These questions motivated a twelve-year research program of the National Center for Risk and Economic Analysis of Terrorism Events (CREATE) at the University of Southern California, funded by the Department of Homeland Security. This book showcases some of the most important results of this research and offers key insights on how to address the most important security problems of our time. Written for homeland security researchers and practitioners, this book covers a wide range of methodologies and real-world examples of how to reduce terrorism risks, increase the efficient use of homeland security resources, and thereby make better decisions overall. Commercializing Blockchain Strategic Applications in the Real World John Wiley & Sons The accessible, non-technical guide to applying and benefiting from blockchain technology. Blockchain has grown at an enormous rate in a very short period of time. In a business context, blockchain can level the playing field between small and large organisations in several ways: Exact copies of the immutable, time-stamped data is held by all parties, all transactions can be viewed in real time, data blocks are cryptographically linked, all raw materials are traceable and smart contracts ensure no middle-men, ease of audit and reduced friction. The trust, transparency, security, quality and reduced costs of blockchain make it a game-changing technology that crosses sectors, industries and borders with ease. Even though the technologies are ready for adoption, businesses remain largely unaware of their full potential and effective implementation. End users require accurate and up-to-date information on the practical applications of blockchain — Commercializing Blockchain provides it. A practical and easy-to-understand guide to blockchain, this timely book illustrates how this revolutionary technology can be used to transform governments, businesses, enterprises and entire communities. The author draws from his experience with global retailers, global technology companies, UCL Centre for Blockchain technologies, the government of the UK, Retail Blockchain Consortium and many other sources to present real-world case studies on the use and benefits of blockchain. Topics include financial transactions, tokenisation, identity management, supply chain transparency, global shipping and freight, counterfeiting and more. Provides practical guidance for blockchain transactions in business operations Provides practical guidance for blockchain transactions in business operations Demonstrates how blockchain can add value and bring increased efficiency to commercial operations Covers all of the essential components of blockchain such as traceability, provenance, certification and authentication Requires no technical expertise to embrace blockchain strategies Commercializing Blockchain: Strategic Applications in the Real World is ideal for enterprises seeking to develop and deploy blockchain technology, particularly in areas retail, supply chain and consumer goods.