

Primary Surveillance Radar Extractor Intersoft

This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications (RITA 2018). Reflecting the conference's main theme, "Robotics and Machine Intelligence: Building Blocks for Industry 4.0," it features relevant and current research investigations into various aspects of these building blocks. The areas covered include: Instrumentation and Control, Automation, Autonomous Systems, Biomechatronics and Rehabilitation Engineering, Intelligent Systems, Machine Learning, Robotics, Sensors and Actuators, and Machine Vision, as well as Signal and Image Processing. A valuable asset, the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications.

As industrial control systems (ICS), including SCADA, DCS, and other process control networks, become Internet-facing, they expose crucial services to attack. Threats like Duqu, a sophisticated worm found in the wild that appeared to share portions of its code with the Stuxnet worm, emerge with increasing frequency. Explaining how to develop and implement an effective cybersecurity program for ICS, *Cybersecurity for Industrial Control Systems: SCADA, DCS, PLC, HMI, and SIS* provides you with the tools to ensure network security without sacrificing the efficiency and functionality of ICS. Highlighting the key issues that need to be addressed, the book begins with a thorough introduction to ICS. It discusses business, cost, competitive, and regulatory drivers and the conflicting priorities of convergence. Next, it explains why security requirements differ from IT to ICS. It differentiates when standard IT security solutions can be used and where SCADA-specific practices are required. The book examines the plethora of potential threats to ICS, including hi-jacking malware, botnets, spam engines, and porn dialers. It outlines the range of vulnerabilities inherent in the ICS quest for efficiency and functionality that necessitates risk behavior such as remote access and control of critical equipment. Reviewing risk assessment techniques and the evolving risk assessment process, the text concludes by examining what is on the horizon for ICS security, including IPv6, ICSv6 test lab designs, and IPv6 and ICS sensors.

This handbook is designed to aid electronic warfare and radar systems engineers in making general estimations regarding capabilities of systems. It is not intended as a detailed designer's guide, due to space limitations. Portions of the handbook and future changes will be posted on an internet link.

This revised and expanded bestseller includes a new chapter on putting, a new appendix on the fundamental physics covered in the book, increased coverage of modern club design, and an updated reference section. As in the previous book, most of the mathematics is relegated to a technical appendix. The first edition of this book was enthusiastically received by the both the science press in *Physics Today*, *IEEE Spectrum*, and *Nature* and the golf world in *American Golf Pro* and

Golf Week.

The changes in the technological and business environment have complicated the nature of the decision-making process in real-world problems, thus motivating the development of new operations research (OR) methodologies. The traditional OR context is usually based on a single objective approach using profit (cost) maximisation (minimisation) criteria. However, it is now widely acknowledged that such an approach overlooks additional factors which are also highly relevant in a decision-making context. This book presents the recent advances to the theory of multicriteria analysis, covering all its major aspects in a unique edited volume. This book reveals that the manipulation of culture was of more importance than the character of the original cultural stock in explaining Japan's modern industrialization. Thus the features of private enterprise culture that are so often isolated as keys to the nation's historical competitiveness may have been only temporary reflections of this wider process of cultural engineering: a necessary input into the program of technology transfer and late development. This book provides a highly reliable guide to the industrial economy and history and covers a wide ground; it will be of great interest to those involved in Asian studies, Japanese studies, plus economists and professionals in business and enterprise culture.

Automation in air traffic control may increase efficiency, but it also raises questions about adequate human control over automated systems. Following on the panel's first volume on air traffic control automation, *Flight to the Future* (NRC, 1997), this book focuses on the interaction of pilots and air traffic controllers, with a growing network of automated functions in the airspace system. The panel offers recommendations for development of human-centered automation, addressing key areas such as providing levels of automation that are appropriate to levels of risk, examining procedures for recovery from emergencies, free flight versus ground-based authority, and more. The book explores ways in which technology can build on human strengths and compensate for human vulnerabilities, minimizing both mistrust of automation and complacency about its abilities. The panel presents an overview of emerging technologies and trends toward automation within the national airspace system--in areas such as global positioning and other aspects of surveillance, flight information provided to pilots and controllers, collision avoidance, strategic long-term planning, and systems for training and maintenance. The book examines how to achieve better integration of research and development, including the importance of user involvement in air traffic control. It also discusses how to harmonize the wide range of functions in the national airspace system, with a detailed review of the free flight initiative.

Focusing on the most rapidly changing areas of mechatronics, this book discusses signals and system control, mechatronic products, metrology and nanometrology, automatic control & robotics, biomedical engineering, photonics, design manufacturing and testing of MEMS. It is reflected in the list of contributors, including an international group of 302 leading researchers representing 12 countries. The book is intended for use in academic, government and industry R&D departments, as an indispensable reference tool for the years to come. This volume can serve a global community as the definitive reference source in Mechatronics. The book comprises carefully selected 93 contributions presented at the 11th International Conference Mechatronics 2015,

organized by Faculty of Mechatronics, Warsaw University of Technology, on September 21-23, in Warsaw, Poland.

The Zambezi river is the fourth longest in Africa, crossing or bordering Zambia, Angola, Namibia, Botswana, Zimbabwe and Mozambique. The river basin is widely recognised as one of the most important basins in southern Africa and is the focus of contested development, including water for hydropower and for agriculture and the environment. This book provides a thorough review of water and sustainable development in the Zambezi, in order to identify critical issues and propose constructive ways forward. The book first reviews the availability and use of water resources in the basin, outlines the basin's economic potential and highlights key concerns related to climate vulnerability and risk. Focus is then devoted to hydropower and the water-energy-food (WEF) nexus, sustainable agricultural water management, and threats and opportunities related to provision of ecosystem services. The impact of urbanisation and water quality is also examined, as well as ways to enhance transboundary water cooperation. Last, the book assesses the level of water security in the basin, and provides suggestions for achieving Sustainable Development Goal (SDG) 6. Throughout, emphasis is placed on entry points for basin-level management to foster improved paths forward.

Complete with romance, heartbreak, martial arts, cannibalism, and an army of shambling corpses, *Dreadfully Ever After* brings the story of *Pride and Prejudice* and *Zombies* to a thrilling conclusion. When we last saw Elizabeth Bennet and Fitzwilliam Darcy—at the end of the New York Times best seller *Pride and Prejudice* and *Zombies*—they were preparing for a lifetime of wedded bliss. Yet the honeymoon has barely begun when poor Mr. Darcy is nipped by a rampaging dreadful. Elizabeth knows the only acceptable course of action is to promptly behead her husband (and then burn the corpse, just to be safe). But when she learns of a miracle antidote being developed in London, she realizes there may be one last chance to save her true love—and for everyone to live happily ever after.

Twenty-first century governments must keep pace with the expectations of their citizens and deliver on the promise of the digital age. Data-driven approaches are particularly effective for meeting those expectations and rethinking the way governments and citizens interact. This report highlights the important role data can play in creating conditions that improve public services, increase the effectiveness of public spending and inform ethical and privacy considerations. It presents a data-driven public sector framework that can help countries or organisations assess the elements needed for using data to make better-informed decisions across public sectors.

Gathers photographs by Walker Evans, Dorothea Lange, Russell Lee and others, that everyday life in the U.S

Multiple Criteria Decision Making (MCDM) is all about making choices in the presence of multiple conflicting criteria. MCDM has become one of the most important and fastest growing subfields of Operations Research/Management Science. As modern MCDM started to emerge about 50 years ago, it is now a good time to take stock of developments. This book aims to present an informal, nontechnical history of MCDM, supplemented with many pictures. It covers the major developments in MCDM, from early history until now. It also covers

fascinating discoveries by Nobel Laureates and other prominent scholars. The book begins with the early history of MCDM, which covers the roots of MCDM through the 1960s. It proceeds to give a decade-by-decade account of major developments in the field starting from the 1970s until now. Written in a simple and accessible manner, this book will be of interest to students, academics, and professionals in the field of decision sciences.

Text Mining and Visualization: Case Studies Using Open-Source Tools provides an introduction to text mining using some of the most popular and powerful open-source tools: KNIME, RapidMiner, Weka, R, and Python. The contributors—all highly experienced with text mining and open-source software—explain how text data are gathered and processed from a w

Today's unprecedented growth of data and their ubiquity in our lives are signs that the data revolution is transforming the world. And yet much of the value of data remains untapped. Data collected for one purpose have the potential to generate economic and social value in applications far beyond those originally anticipated. But many barriers stand in the way, ranging from misaligned incentives and incompatible data systems to a fundamental lack of trust. *World Development Report 2021: Data for Better Lives* explores the tremendous potential of the changing data landscape to improve the lives of poor people, while also acknowledging its potential to open back doors that can harm individuals, businesses, and societies. To address this tension between the helpful and harmful potential of data, this Report calls for a new social contract that enables the use and reuse of data to create economic and social value, ensures equitable access to that value, and fosters trust that data will not be misused in harmful ways. This Report begins by assessing how better use and reuse of data can enhance the design of public policies, programs, and service delivery, as well as improve market efficiency and job creation through private sector growth. Because better data governance is key to realizing this value, the Report then looks at how infrastructure policy, data regulation, economic policies, and institutional capabilities enable the sharing of data for their economic and social benefits, while safeguarding against harmful outcomes. The Report concludes by pulling together the pieces and offering an aspirational vision of an integrated national data system that would deliver on the promise of producing high-quality data and making them accessible in a way that promotes their safe use and reuse. By examining these opportunities and challenges, the Report shows how data can benefit the lives of all people, particularly poor people in low- and middle-income countries. .

This new edition of the popular *Pharmacology case studies for nurse prescribers* has been thoroughly revised in the light of the latest research and guidance from NICE, the British National Formulary (BNF), the Royal Pharmaceutical Society, the Nursing and Midwifery Council and the Royal College of Nursing. While the first edition was aimed at students undertaking the non-medical prescribing modules, this updated text has broadened its scope and is relevant to all trainee

and qualified nurse prescribers. There are new and additional chapters on pregnancy and breastfeeding, sexual health and contraception, and prescribing for frailty syndrome in the elderly. The latest developments in pharmacology (such as the emergence of biosimilar drugs) are included in the text; and all the chapters from the first edition have been revised and updated by expert healthcare practitioners. Meanwhile, the practical approach and helpful features that made the first edition so popular remain unchanged. The authors offer a basic introduction to pharmacological concepts, embedded in specific conditions, through case studies and self-assessment questions. By utilising a case study approach, they enable the reader to link pharmacological concepts with clinical practice. Reading this book, and carrying out the numerous self-assessment activities, will give the reader an appreciation of the value of having a sound pharmacological knowledge base in order to deliver safe practice, effective prescribing and improved patient care. Praise for the first edition: 'A useful and practical accompaniment for those studying nurse prescribing, this textbook is also a valuable resource for practitioners qualified in this extended role and those who prescribe and administer medications daily.' Valerie McGurk, Practice Development Nurse, Nursing Management 'This book is a comprehensive collection of case studies on a number of conditions, from heart failure to eye problems.' Lynda Gibbons, Registered Advanced Nurse Practitioner, Emergency Nurse

This book looks at the economic consequences of the political decisions embodied in the Japanese public pension system under conditions of a rapidly aging population. Projections imply that Japan's population will peak out in ten to fifteen years, then begin to fall, a situation which could cause serious social and economic disruption. The author also presents the current economic status of the elderly, and estimates income transfers between generations through public pensions.

Studies show that emotional intelligence -- the social and emotional skills that make up what we call character -- is more important to your child's success than the cognitive intelligence measured by IQ. And unlike IQ, emotional intelligence can be developed in kids at all stages. Filled with games, checklists and practical parenting techniques, *How to Raise a Child with a High EQ* will help your child to cope with -- and overcome -- the emotional stress of modern times and the normal problems of growing up.

This handbook explores the challenges demographic change pose twenty-first century Japan. The first part gives the fundamental data involved, and the subsequent parts address the social, cultural, political, economic and social security aspects of Japan's demographic change.

The tools and techniques you need to break the analog design bottleneck! Ten years ago, analog seemed to be a dead-end technology. Today, System-on-Chip (SoC) designs are increasingly mixed-signal designs. With the advent of application-specific integrated circuits (ASIC) technologies that can integrate both

analog and digital functions on a single chip, analog has become more crucial than ever to the design process. Today, designers are moving beyond hand-crafted, one-transistor-at-a-time methods. They are using new circuit and physical synthesis tools to design practical analog circuits; new modeling and analysis tools to allow rapid exploration of system level alternatives; and new simulation tools to provide accurate answers for analog circuit behaviors and interactions that were considered impossible to handle only a few years ago. To give circuit designers and CAD professionals a better understanding of the history and the current state of the art in the field, this volume collects in one place the essential set of analog CAD papers that form the foundation of today's new analog design automation tools. Areas covered are: Analog synthesis Symbolic analysis Analog layout Analog modeling and analysis Specialized analog simulation Circuit centering and yield optimization Circuit testing Computer-Aided Design of Analog Integrated Circuits and Systems is the cutting-edge reference that will be an invaluable resource for every semiconductor circuit designer and CAD professional who hopes to break the analog design bottleneck.

The first chapter discusses general questions. Is Bitcoin a currency? Can it be regulated? How does the Japanese government see it? The second chapter is about licenses and oversight. Banking license, money transfer business license, foreign exchange business license requirements are discussed, along with some relevant court cases. The third chapter deals with market rules like insider trading, market manipulation, and money laundering. The fourth chapter discusses tax law (capital gains and consumption tax), as well as criminal law applying to the theft of bitcoins. How has the Japanese government persuaded its citizens to save substantial portions of their incomes? And to care for the elderly within the family? How did the public come to support legalized prostitution as in the national interest? What roles have women's groups played in Japan's "economic miracle"? What actually unites the Japanese to achieve so many economic and social goals that have eluded other polities? Here Sheldon Garon helps us to understand this mobilizing spirit as he taps into the intimate relationships everyday Japanese have with their government. To an extent inconceivable to most Westerners, state directives trickle into homes, religious groups, and even into individuals' sex lives, where they are frequently welcomed by the Japanese and reinforced by their neighbors. In a series of five compelling case studies, Garon demonstrates how average citizens have cooperated with government officials in the areas of welfare, prostitution, and household savings, and in controlling religious "cults" and promoting the political participation of women. The state's success in creating a nation of activists began before World War II, and has hinged on campaigns that mobilize the people behind various policies and encourage their involvement at the local level. For example, neighborhoods have been socially managed on a volunteer basis by small-business owners and housewives, who strive to rid their locales of indolence and to contain welfare costs. The story behind the state regulation of prostitution is a more turbulent one in which many lauded the flourishing brothels for preserving Japanese tradition and strengthening the "family system," while others condemned the sexual enslavement of young women. In each case, we see Japanese

citizens working closely with the state to recreate "community" and shape the thought and behavior of fellow citizens. The policies often originate at the top, but in the hands of activists they take on added vigor. This phenomenon, which challenges the conventional dichotomy of the "state" versus the "people," is well worth exploring as Western governments consider how best to manage their own changing societies. Businesses need a new type of problem solving. Why? Because they are getting people wrong. Traditional problem-solving methods taught in business schools serve us well for some of the everyday challenges of business, but they tend to be ineffective with problems involving a high degree of uncertainty. Why? Because, more often than not, these tools are based on a flawed model of human behavior. And that flawed model is the invisible scaffolding that supports our surveys, our focus groups, our R&D, and much of our long-term strategic planning. In *The Moment of Clarity*, Christian Madsbjerg and Mikkel Rasmussen examine the business world's assumptions about human behavior and show how these assumptions can lead businesses off track. But the authors chart a way forward. Using theories and tools from the human sciences—anthropology, sociology, philosophy, and psychology—*The Moment of Clarity* introduces a practical framework called sensemaking. Sensemaking's nonlinear problem-solving approach gives executives a better way to understand business challenges involving shifts in human behavior. This new methodology, a fundamentally different way to think about strategy, is already taking off in Fortune 100 companies around the world. Through compelling case studies and their direct experience with LEGO, Samsung, Adidas, Coloplast, and Intel, Madsbjerg and Rasmussen will show you how to solve problems as diverse as setting company direction, driving growth, improving sales models, understanding the real culture of your organization, and finding your way in new markets. Over and over again, executives say the same thing after engaging in a process of sensemaking: "Now I see it . . ." This experience—the moment of clarity—has the potential to drive the entire strategic future of your company. Isn't it time you and your firm started getting people right? Learn more about the innovation and strategy work of ReD Associates at: redassociates.com

Technology-Based Training provides information pertinent to the importance and influence of technology in the field of training. This book emphasizes the commercial and industrial setting at the expense of public and state-provided educational system. Organized into two parts encompassing eight chapters, this book begins with an overview of off-the-shelf courseware and looks at the relationship between industry and its marketplace. This text then discusses the major advances in technology-based training and provides a balanced analysis of the development in technology-based training. Other chapters consider that the best way to assess the potential of computer-based training is to develop some courses, utilize them in the field, and evaluate their effectiveness. This book discusses as well the project management aspects of running a courseware development program. The final chapter deals with the surface activity in the dissemination of information regarding what to use, how to use it, and what to use it for. This book is a valuable resource for trainers and managers.

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