Irobot Corporation Fundamental Company Report Including

This book constitutes the refereed proceedings of the 9th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAmI 2015, held in Puerto Varas, Chile, in December 2015. The 36 full papers presented together with 11 short papers were carefully reviewed and selected from 62 submissions. The papers are grouped in topical sections on adding intelligence for environment adaption; ambient intelligence for transport; human interaction and ambient intelligence; and ambient intelligence for urban areas.

When young, we didn't have cellular devices but communicated through handwritten letter. We walked miles to school, in the sun and the rain. It's mind-boggling to think how far we've come technologically. "Objects in mirror are closer than they appear." That familiar warning applies to the windshield, not the rear view mirror when it comes to technology. And in case of exponential technologies, almost everything is closer than it appears. Today's students will be graduating in and around 2030. Over 65% of the jobs of that time have not been invented yet. What knowledge, skills and dispositions will our learners need for a successful future? How will exponential changes in technology influence them? How can they shape the future instead of being shaped by it? There is an urgent need to be aware of exponential technologies which will usher in singularity, a point in time when artificial intelligence will equal and then surpass biological intelligence. An exploratory design of medical nanotechnology and robotics is creating mechanical artificial red blood cells, called respirocytes, which will deliver 236 times more oxygen to the tissues per unit volume. One can

then do an Olympic sprint in fifteen minutes without taking a breath. Earth is awash with the sun's rays carrying 10,000 times more energy than we need but we cannot harness it. In a foreseeable future, highly efficient, lightweight, nano-engineered solar panels will be able to store solar energy in distributed nanotechnology-based fuel cells. In the field of health, we are going to have tools to reprogram biology to block diseases and delay aging. We need our future scientists and engineers to be wholesome human beings with the ability to think critically and pay heed to the moral and ethical issues of future technologies. Notwithstanding these issues, all great technological breakthroughs are absolutely necessary to alleviate poverty, disease, suffering and create abundance.

Appropriate for all basic-to-intermediate level courses in Visual Basic 2008 programming. Created by world-renowned programming instructors Paul and Harvey Deitel, Visual Basic 2008 How to Program, Fourth Edition introduces all facets of the Visual Basic 2008 language hands-on, through hundreds of working programs. This book has been thoroughly updated to reflect the major innovations Microsoft has incorporated in Visual Basic 2008 and .NET 3.5; all discussions and sample code have been carefully audited against the newest Visual Basic language specification. The many new platform features covered in depth in this edition include: LINQ data queries, Windows Presentation Foundation (WPF), ASP.NET Ajax and the Microsoft Ajax Library, Silverlight-based rich Internet application development, and creating Web services with Windows Communication Foundation (WCF). New language features introduced in this edition: object anonymous types, object initializers, implicitly typed local variables and arrays, delegates, lambda expressions, and extension methods. Students begin by getting comfortable with the free Visual Basic Express 2008 IDE and basic VB

syntax included on the CD. Next, they build their skills one step at a time, mastering control structures, classes, objects, methods, variables, arrays, and the core techniques of object-oriented programming. With this strong foundation in place, the Deitels introduce more sophisticated techniques, including inheritance, polymorphism, exception handling, strings, GUI's, data structures, generics, and collections. Throughout, the authors show developers how to make the most of Microsoft's Visual Studio tools. A series of appendices provide essential programming reference material on topics ranging from number systems to the Visual Studio Debugger, UML 2 to Unicode and ASCII.

This is a multidisciplinary textbook on social commerce by leading authors of e-commerce and e-marketing textbooks, with contributions by several industry experts. It is effectively the first true textbook on this topic and can be used in one of the following ways: Textbook for a standalone elective course at the undergraduate or graduate levels (including MBA and executive MBA programs) Supplementary text in marketing, management or Information Systems disciplines Training courses in industry Support resources for researchers and practitioners in the fields of marketing, management and information management The book examines the latest trends in e-commerce, including social businesses, social networking, social collaboration, innovations and mobility. Individual chapters cover tools and platforms for social commerce; supporting theories and concepts; marketing communications; customer engagement and metrics; social shopping; social customer service and CRM contents; the social enterprise; innovative applications; strategy and performance management; and implementing social commerce systems. Each chapter also includes a real-world example as an opening case; application cases and examples; exhibits; a chapter summary; review questions and

end-of-chapter exercises. The book also includes a glossary and key terms, as well as supplementary materials that include PowerPoint lecture notes, an Instructor's Manual, a test bank and five online tutorials.

Readers gain an overview of the core principles of IS and how it is practiced today as the concise, nine-chapter FUNDAMENTALS OF INFORMATION SYSTEMS, 9th edition combines the latest research with the most current coverage available. The book addresses analytics; big data; business intelligence; cloud computing; cybercrime; information system security; e-commerce; enterprise systems; ethical, legal, and social issues of information systems; mobile computing solutions; and systems acquisition and development. Readers learn how information systems can increase profits and reduce costs as they explore the latest information on artificial intelligence, change management, consumerization of information systems, data governance, energy and environmental concerns, global IS challenges, Internet of Everything, Internet censorship and net neutrality, IS careers, and virtual teams. Maximize success as an employee, decision maker, and business leader with this streamlined, contemporary resource. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze stocks, work in factories, find parking spaces, advise oncologists. In the past, automation was considered a threat to low-skilled labor. Now, many high-skilled functions, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare

students for their professional lives when professions themselves are disappearing? In Robot-Proof, Northeastern University president Joseph Aoun proposes a way to educate the next generation of college students to invent, to create, and to discover—to fill needs in society that even the most sophisticated artificial intelligence agent cannot. A "robot-proof" education, Aoun argues, is not concerned solely with topping up students' minds with high-octane facts. Rather, it calibrates them with a creative mindset and the mental elasticity to invent, discover, or create something valuable to society—a scientific proof, a hip-hop recording, a web comic, a cure for cancer. Aoun lays out the framework for a new discipline, humanics, which builds on our innate strengths and prepares students to compete in a labor market in which smart machines work alongside human professionals. The new literacies of Aoun's humanics are data literacy, technological literacy, and human literacy. Students will need data literacy to manage the flow of big data, and technological literacy to know how their machines work, but human literacy—the humanities, communication, and design—to function as a human being. Life-long learning opportunities will support their ability to adapt to change. The only certainty about the future is change. Higher education based on the new literacies of humanics can equip students for living and working through change.
Combining the Deitel™ signature Live-Code™ Approach with a new Application-Driven™ methodology, this book uses a step-by-step tutorial approach to explore the basics of programming, builds upon previously learned concepts, and introduces new programming features in each successive tutorial. Updated throughout for Visual

Studio 2008, Visual Basic 2008 and .NET 3.5. Audits presentation of Visual Basic against the most recent Microsoft Visual Basic Language Specification. Covers GUI design, controls, methods, functions, data types, control structures, procedures, arrays, object-oriented programming, strings and characters, sequential files, and more. Includes higher-end topics such as database programming, multimedia and graphics, and Web applications development. For individuals beginning their mastery of Visual Basic Programming.

Industrial internet of things (IIoT) is changing the face of industry by completely redefining the way stakeholders, enterprises, and machines connect and interact with each other in the industrial digital ecosystem. Smart and connected factories, in which all the machinery transmits real-time data, enable industrial data analytics for improving operational efficiency, productivity, and industrial processes, thus creating new business opportunities, asset utilization, and connected services. IIoT leads factories to step out of legacy environments and arcane processes towards open digital industrial ecosystems. Innovations in the Industrial Internet of Things (IIoT) and Smart Factory is a pivotal reference source that discusses the development of models and algorithms for predictive control of industrial operations and focuses on optimization of industrial operational efficiency, rationalization,

automation, and maintenance. While highlighting topics such as artificial intelligence, cyber security, and data collection, this book is ideally designed for engineers, manufacturers, industrialists, managers, IT consultants, practitioners, students, researchers, and industrial industry professionals.
WIPO's latest World Intellectual Property Report (WIPR) explores the role of IP at the nexus of innovation and economic growth, focusing on the impact of breakthrough innovations.
Wheeled Mobile Robotics: From Fundamentals Towards Autonomous Systemscovers the main topics from the wide area of mobile robotics, explaining all applied theory and application. The book gives the reader a good foundation, enabling them to continue to more advanced topics. Several examples are included for better understanding, many of them accompanied by short MATLAB® script code making it easy to reuse in practical work. The book includes several examples of discussed methods and projects for wheeled mobile robots and some advanced methods for their control and localization. It is an ideal resource for those seeking an understanding of robotics, mechanics, and control, and for engineers and researchers in industrial and other specialized research institutions in the field of wheeled mobile robotics. Beginners with basic math knowledge will benefit from the examples, and engineers with an understanding of

basic system theory and control will find it easy to follow the more demanding fundamental parts and advanced methods explained. Offers comprehensive coverage of the essentials of the field that are suitable for both academics and practitioners Includes several examples of the application of algorithms in simulations and real laboratory projects Presents foundation in mobile robotics theory before continuing with more advanced topics Self-sufficient to beginner readers, covering all important topics in the mobile robotics field Contains specific topics on modeling, control, sensing, path planning, localization, design architectures, and multi-agent systems

"This book brings together scholars with significantly different backgrounds who share interests in the interplay between trust and technology, presenting novel theoretical perspectives on the topics of trust and technology, as well as some empirical investigations into the trust-building, trust-repairing, and trust-destroying practices in the context of technology"--Provided by publisher.

As modern technologies continue to develop and evolve, the ability of users to interface with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies is necessary to fully realize the potential of 21st century tools. Human-Computer Interaction: Concepts,

Methodologies, Tools, and Applications gathers research on user interfaces for advanced technologies and how these interfaces can facilitate new developments in the fields of robotics, assistive technologies, and computational intelligence. This four-volume reference contains cutting-edge research for computer scientists; faculty and students of robotics, digital science, and networked communications; and clinicians invested in assistive technologies. This seminal reference work includes chapters on topics pertaining to system usability, interactive design, mobile interfaces, virtual worlds, and more.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

This book combines theory, empirical research, and practical, international case studies to provide students with a comprehensive resource that demonstrates theories on gender alongside their operation in everyday workplace situations. Reeves's new edition provides a thorough review of issues important to women in the workplace, including gender discrimination and the legal framework for equity at work. The book uses case studies to illustrate key themes and introduces several new features, including: Updated statistics on women's participation in the workforce Updated examples of

resources for women in business Two new chapters covering negotiation and influencing skills and women in STEM fields New case studies, featuring comparisons between the position of women in the United States and in other countries An instructor's manual with advice, suggested answers to the end-of-chapter questions, and additional resources This is a one-stop resource for any student interested in gender theory and issues that affect women in the workplace.

With no previous experience required, BASIC ROBOTICS walks readers step by step through the fundamentals of the industrial robot system. It begins with an exploration of the fascinating technological history that led to the modern robot, starting with events from Before the Common Era and ending with a glimpse of what the robots of tomorrow might become. From there the book explores safety, various parts of the robot, tooling, power transmission systems, the basics of programming, troubleshooting, maintenance, and much more. Engaging photos highlight various robotic systems and their parts, while stories of real-world events bring text concepts to life. This innovative First Edition incorporates many of the initiatives of STEM and is the culmination of lessons learned from the author's years of teaching robotics in various formats--from the traditional classroom to the industrial production floor with systems ranging from the LEGO Mindstorms NXT to the FANUC robot. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Presents an illustrated A-Z encyclopedia containing

approximately 600 entries on computer and technology related topics.

Profit from Your Unique Advantages as a Small Investor--Speed and Flexibility! "The book you are holding is, hands-down, one of the most original and insightful books I have ever read when it comes to teaching you, the individual investor, not only why you have the ability to beat the Whales of Wall Street, but also how you can do it." --from the foreword by James J. Cramer, CNBC's Mad Money and TheStreet.com "Even investors who concentrate on fundamentals can benefit from Jim DePorre's Shark approach to investing. At the very least they will know why, for a time, they can get the facts right but the stock wrong." --Herb Greenberg, senior columnist, MarketWatch.com "There are very few traders who have RevShark's intuitive feel for the market. I especially appreciate Rev's unique ability to recognize and utilize the distinct advantages of being a smaller, individual investor versus the less agile large institutions." --Barry Ritholtz, Chief Investment Officer, Ritholtz Capital Partners As an individual investor, you can swim circles around the "whales" of Wall Street…by investing like a shark! In this book, James "RevShark" DePorre reveals how to maximize your powerful and unique advantages as a small investor: speed and flexibility. You'll develop a completely new way of looking at the stock market, learn when to attack, how to move aggressively, how to stay flexible…and when to swim away in the face of danger. You'll learn why "buy and hold" is today's riskiest strategy…and exactly what to do instead. In short, you'll learn the same disciplined

investment techniques that helped DePorre build a tiny nest egg into a huge fortune and transformed his life. If you read TheStreet.com, RealMoney.com, or SharkInvesting.com, you already know DePorre and his inspiring personal story of how he lost his hearing, career, and marriage…turned to online investing out of desperation…and succeeded beyond his wildest dreams. Now, in this fast-paced, insightful, and entertaining book, DePorre shows how you can do it, too. How to invest like a shark… Stay in motion, trolling for your "next meal" Stalk your prey patiently, relentlessly, and without emotion Move fast when there's blood in the water Know when to strike Know when to swim away Sell when you sense danger Feed on the frenzied crowd Profit from others' fear, despair, stupidity, and greed Use all your unique advantages and strengths Leverage small caps, technical analysis, and the tremendous power of cash Invest with the shark's attitude Be active, adaptive--and control your own destiny

This book provides the fundamentals of asset management. It takes a practical perspective in describing asset management. Besides the theoretical aspects of investment management, it provides in-depth insights into the actual implementation issues associated with investment strategies. The 19 chapters combine theory and practice based on the experience of the authors in the asset management industry. The book starts off with describing the key activities involved in asset management and the various forms of risk in managing a portfolio. There is then coverage of the different asset classes (common stock, bonds, and

alternative assets), collective investment vehicles, financial derivatives, common stock analysis and valuation, bond analytics, equity beta strategies (including smart beta), equity alpha strategies (including quantitative/systematic strategies), bond indexing and active bond portfolio strategies, and multi-asset strategies. The methods of using financial derivatives (equity derivatives, interest rate derivatives, and credit derivatives) in managing the risks of a portfolio are clearly explained and illustrated.

As today's teachers prepare to instruct a new generation of students, the question is no longer whether technology should be integrated into the classroom, but only "how?" Forced to combat shorter attention spans and an excess of stimuli, teachers sometimes see technology as a threat rather than a potential enhancement to traditional teaching methods. The Handbook of Research on Educational Technology Integration and Active Learning explores the need for new professional development opportunities for teachers and educators as they utilize emerging technologies to enhance the learning experience. Highlighting the advancements of ubiquitous computing, authentic learning, and student-centered instruction, this book is an essential reference source for educators, academics, students, researchers, and librarians.

Praise for Be Smart, Act Fast, Get Rich "Charles Payne's book is blunt, provocative, and right on the money. This book is a lot like Charles himself: insightful and to the point. If you have time to read only one book on how to make money . . . this is the book." --Dr. Bob Froehlich, Chairman, Investor Strategy Committee Deutsche Asset Management, and Vice Chairman, DWS Scudder "Be Smart, Act Fast, Get Rich is a book for all investors from first-time stock buyers to seasoned

investors. 'Be Smart' suggests you understand the fundamentals of the company you are purchasing. 'Act Fast' suggests that action must be taken if you are going to increase your wealth in the stock market. All too often we find interesting ideas to invest in but never have the confidence to act, only to watch the stock's price rise while others reap the benefits. This book is an easy read, and a must-read for all investors." --Tom Dorsey, President, Dorsey Wright & Associates and author, Point & Figure Charting "You should buy this book just for the super job Charles does in explaining everything you need to know about charts, graphs, and the other 'voodoo' of technical analysis that he makes so simple to understand. Charles really gives you a street fighter's education in the markets . . . I wish his book was around twenty-five years ago . . . it would have saved me millions in market mistakes I've made." --Tobin Smith, founder and Chairman, ChangeWave Research

This new Edition of Electronic Commerce is a complete update of the leading graduate level/advanced undergraduate level textbook on the subject. Electronic commerce (EC) describes the manner in which transactions take place over electronic networks, mostly the Internet. It is the process of electronically buying and selling goods, services, and information. Certain EC applications, such as buying and selling stocks and airline tickets online, are reaching maturity, some even exceeding non-Internet trades. However, EC is not just about buying and selling; it also is about electronically communicating, collaborating, and discovering information. It is about e-learning, e-government, social networks, and much more. EC is having an impact on a significant portion of the world, affecting businesses, professions, trade, and of course, people. The most important developments in EC since 2014 are the continuous phenomenal growth of social networks, especially Facebook , LinkedIn and Instagram, and

the trend toward conducting EC with mobile devices. Other major developments are the expansion of EC globally, especially in China where you can find the world's largest EC company. Much attention is lately being given to smart commerce and the use of AI-based analytics and big data to enhance the field. Finally, some emerging EC business models are changing industries (e.g., the shared economy models of Uber and Airbnb). The 2018 (9th) edition, brings forth the latest trends in e-commerce, including smart commerce, social commerce, social collaboration, shared economy, innovations, and mobility.

This is a complete update of the best-selling undergraduate textbook on Electronic Commerce (EC). New to this 4th Edition is the addition of material on Social Commerce (two chapters); a new tutorial on the major EC support technologies, including cloud computing, RFID, and EDI; ten new learning outcomes; and video exercises added to most chapters. Wherever appropriate, material on Social Commerce has been added to existing chapters. Supplementary material includes an Instructor's Manual; Test Bank questions for each chapter; Powerpoint Lecture Notes; and a Companion Website that includes EC support technologies as well as online files. The book is organized into 12 chapters grouped into 6 parts. Part 1 is an Introduction to E-Commerce and E-Marketplaces. Part 2 focuses on EC Applications, while Part 3 looks at Emerging EC Platforms, with two new chapters on Social Commerce and Enterprise Social Networks. Part 4 examines EC Support Services, and Part 5 looks at E-Commerce Strategy and Implementation. Part 6 is a collection of online tutorials on Launching Online Businesses and EC Projects, with tutorials focusing on e-CRM; EC Technology; Business Intelligence, including Data-, Text-, and Web Mining; E-Collaboration; and Competition in Cyberspace. the following="" tutorials=""

are="" not="" related="" to="" any="" specific="" chapter.=""
they="" cover="" the="" essentials="" ec="" technologies=""
and="" provide="" a="" guide="" relevant="" resources.="" p
Financial aspects of launching and operating a high-tech
company, including risk analysis, business models, U.S.
securities law, financial accounting, tax issues, and stock
options, explained accessibly. This book offers an accessible
guide to the financial aspects of launching and operating a
high-tech business in such areas as engineering, computing,
and science. It explains a range of subjects—from risk analysis
to stock incentive programs for founders and key
employees—for students and aspiring entrepreneurs who have
no prior training in finance or accounting. The book begins
with the rigorous analysis any prospective entrepreneur
should undertake before launching a business, covering risks
associated with a new venture, the reasons startup
companies fail, and the stages of financing. It goes on to
discuss business models and their components, business
plans, and exit planning; forms of business organization, and
factors to consider in choosing one; equity allocation to
founders and employees; applicable U.S. securities law; and
sources of equity capital. The book describes principles of
financial accounting, the four basic financial statements, and
financial ratios useful in assessing management performance.
It also explains financial planning and the use of budgets;
profit planning; stock options and other option-type awards;
methodologies for valuing a private company; economic
assessment of a potential investment project; and the real
options approach to risk and managerial flexibility.
Appendixes offer case studies of Uber and of the valuation of
Tentex.
PCMag.com is a leading authority on technology, delivering
Labs-based, independent reviews of the latest products and
services. Our expert industry analysis and practical solutions

help you make better buying decisions and get more from technology.

In the past 50 years there has been an explosion of interest in the development of technologies whose end goal is to connect the human brain and/or nervous system directly to computers. Once the subject of science fiction, the technologies necessary to accomplish this goal are rapidly becoming reality. In laboratories around the globe, research is being undertaken to restore function to the physically disabled, to replace areas of the brain damaged by disease or trauma and to augment human abilities. Building neural interfaces and neuro-prosthetics relies on a diverse array of disciplines such as neuroscience, engineering, medicine and microfabrication just to name a few. This book presents a short history of neural interfacing (N.I.) research and introduces the reader to some of the current efforts to develop neural prostheses. The book is intended as an introduction for the college freshman or others wishing to learn more about the field. A resource guide is included for students along with a list of laboratories conducting N.I. research and universities with N.I. related tracks of study. Table of Contents: Neural Interfaces Past and Present / Current Neuroprosthesis Research / Conclusion / Resources for Students

Navigating the U.S. Health System gives students a solid understanding of the important aspects of the U.S. health system and the role a health navigator plays in the system. Unlike other introductory U.S. Health Care Systems and Delivery texts, Navigating the U.S. Health Care System will include specific strategies on how to be a successful healthcare navigator as well as more detailed information on the delivery of both inpatient and outpatient health care services.

Fundamentals Of Institutional Asset ManagementWorld

Scientific

Throughout the book, theoretical foundations necessary for understanding Electronic Commerce (EC) are presented, ranging from consumer behavior to the economic theory of competition. Furthermore, this book presents the most current topics relating to EC as described by a diversified team of experts in a variety of fields, including a senior vice president of an e-commerce-related company. The authors provide website resources, numerous exercises, and extensive references to supplement the theoretical presentations. At the end of each chapter, a list of online resources with links to the websites is also provided. Additionally, extensive, vivid examples from large corporations, small businesses from different industries, and services, governments, and nonprofit agencies from all over the world make concepts come alive in Electronic Commerce. These examples, which were collected by both academicians and practitioners, show the reader the capabilities of EC, its cost and justification, and the innovative ways corporations are using EC in their operations. In this edition (previous editions published by Pearson/Prentice Hall), the authors bring forth the latest trends in e-commerce, including social businesses, social networking, social collaboration, innovations, and mobility.

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