Future Smart Summary Of The Key Ideas Original Book By James Canton Managing The Game Changing Trends That Will Transform Your World

The future of Britain's electricity networksHumility Is the New SmartThe Extreme FutureInternet of Things Based on Smart ObjectsA Practical Approach to Large-Scale Agile DevelopmentThe Smart Enough CityFuture SmartFiber Optic Smart Structures and Skins IIOur Digital FutureCollaborative Internet of Things (C-IoT)FuturingFUTURE SMART FOODPivot to the FutureSummary of a Workshop on the Future of AntennasHandbook of Ambient Intelligence and Smart EnvironmentsSmart Sustainable Cities of the FutureThe Smartest Investment Book You'll Ever ReadBroadband Networks, Smart Grids and Climate ChangeSmart GridThe Future is SmartPerspectives on the Future of Software EngineeringPower System Monitoring and ControlTechnical Challenges and Future Scope of Smart Traffic Management System Adoption in Kathmandu, NepalSociety with Future: Smart and Liveable CitiesThe Future Home in the 5G EraNewsmakersAmbient Intelligence with MicrosystemsSmart Couples Finish Rich, Revised and UpdatedSmart Change: Lessons of the Past, Direction for the FutureThe Future of Intelligent Transport SystemsToo SmartSummary: Smart PricingSummary: Max-e-Marketing in the Net FutureFiber Optic Smart Structures and SkinsSmart HealthBig Data Analytics for Connected Vehicles and Smart CitiesLighting California's Future : Novel Light-emitting Diode DownlightsThe House on Mango StreetSummary: Taking Smart RisksSummary: Smart Trust

The future of Britain's electricity networks

Who benefits from smart technology? Whose interests are served when we trade our personal data for convenience and connectivity? Smart technology is everywhere: smart umbrellas that light up when rain is in the forecast; smart cars that relieve drivers of the drudgery of driving; smart toothbrushes that send your dental hygiene details to the cloud. Nothing is safe from smartification. In Too Smart, Jathan Sadowski looks at the proliferation of smart stuff in our lives and asks whether the tradeoff—exchanging our personal data for convenience and connectivity—is worth it. Who benefits from smart technology? Sadowski explains how data, once the purview of researchers and policy wonks, has become a form of capital. Smart technology, he argues, is driven by the dual imperatives of digital capitalism: extracting data from, and expanding control over, everything and everybody. He looks at three domains colonized by smart technologies' collection and control systems: the smart self, the smart home, and the smart city. The smart self involves more than self-tracking of steps walked and calories burned; it raises questions about what others do with our data and how they direct our behavior—whether or not we want them to. The smart home collects data about our habits that offer business a window into our domestic spaces. And the smart city, where these systems have space to grow, offers military-grade surveillance capabilities to local authorities. Technology gets smart from our data. We may enjoy the conveniences we get in return (the

refrigerator says we're out of milk!), but, Sadowski argues, smart technology advances the interests of corporate technocratic power—and will continue to do so unless we demand oversight and ownership of our data.

Humility Is the New Smart

The Extreme Future

The Internet of Things (IoT) usually refers to a world-wide network of interconnected heterogeneous objects (sensors, actuators, smart devices, smart objects, RFID, embedded computers, etc) uniquely addressable, based on standard communication protocols. Beyond such a definition, it is emerging a new definition of IoT seen as a loosely coupled, decentralized system of cooperating smart objects (SOs). A SO is an autonomous, physical digital object augmented with sensing/actuating, processing, storing, and networking capabilities. SOs are able to sense/actuate, store, and interpret information created within themselves and around the neighbouring external world where they are situated, act on their own, cooperate with each other, and exchange information with other kinds of electronic devices and human users. However, such SO-oriented IoT raises many in-the-small and in-the-large issues involving SO programming, IoT system architecture/middleware and methods/methodologies for the development of SO-based applications. This Book will specifically focus on exploring recent advances in architectures, algorithms, and applications for an Internet of Things based on Smart Objects. Topics appropriate for this Book include, but are not necessarily limited to: - Methods for SO development - IoT Networking - Middleware for SOs - Data Management for SOs - Service-oriented SOs - Agent-oriented SOs - Applications of SOs in Smart Environments: Smart Cities, Smart Health, Smart Buildings, etc. Advanced IoT Projects.

Internet of Things Based on Smart Objects

This book constitutes the thoroughly refereed post-conference proceedings of the International Conference for Smart Health, ICSH 2018, held in Wuhan, China, in July 2018. The 14 full papers and 21 short papers presented were carefully reviewed and selected from 49 submissions. They focus on studies on the principles, approaches, models, frameworks, new applications, and effects of using novel information technology to address healthcare problems and improve social welfare. The selected papers are organized into the following topics: smart hospital; online health community; mobile health; medical big data and healthcare machine learning; chronic disease management; and health informatics.

A Practical Approach to Large-Scale Agile Development

In smart grids the formerly separated worlds of energy and telecommunication converge to an interactive and automated energy supply system. Driven by social, legal, and economic pressures, energy systems around the globe are updated with information and communication technology. These investments aim at enhancing energy efficiency, securing affordable energy supply, and mitigate climate change. In Broadband Networks, Smart Grids and Climate Change, renowned scholars and managers from the fields of energy and telecommunication address key questions related to technological, strategic, and regulatory issues revealing consequences and opportunities for businesses evolving with smart grids. In particular, this book analyzes: (1) the effects on climate change protection (2) national energy and broadband politics (3) regulatory approaches and requirements (4) emerging business models

The Smart Enough City

Alluring visions of the future abound, yet those flying cars have not filled our skies and the smart fridge is more of a joke than a reality. But digital technology has changed our lives completely - for the better and the worse - with always-on connectivity, Facebook, Uber and so much more. With jobs potentially at threat and political instability rising, correctly predicting our digital future is more important than even. Professor Webb has an outstanding track record of forecasting over the last 20 years and applies the same pragmatic realism to the next 20. Chapter one starts by looking at what is, and what is not included. Chapter two looks at books on magic and on science fiction to see what their authors imagined in a world where anything might be possible. Chapter three looks at previous predictions to see if there are systematic errors that might be avoided. Chapter four looks at areas of technology where there might be rapid improvements, and in particular those which might enable progress across many areas. It concludes that key future enablers will include the Internet of Things, artificial intelligence and perhaps robotics. The next five chapters look at different environments such as the home, work, leisure and public services. The chapters show that in some cases such as the home and public services, change will be slow and minimal, whereas in others such as work and leisure, much more significant changes can be expected. Chapter ten asks whether societal issues might have an impact. There is a growing backlash against some aspects of digital which might slow the pace of change. The chapter broadly concludes that although there is disquiet, it will be insufficient to make much difference except in specific cases such as terms of employment. Chapter eleven then brings it all together with a set of predictions looking 10, 20 and 30 years out. The change notice by the individual may be relatively small compared to the change of the last 30 years. Individuals will see an ever-better virtual assistant functionality from their devices using emerging AI techniques. In the home some new connected devices such as smart speakers and home IoT products will be installed but home automation will not improve much. Leisure interests will expand, with each genre gaining apps, on-line communities, additional functionality and monitoring from IoT devices. This will allow us to spend more time on our favourite pastimes, as indeed we may need to if enhanced productivity and automation leads to fewer jobs. In business, the office will see widespread deployment of IoT, biometrics and robotics, mostly as a way to

save costs on administrative and maintenance staff. Some sectors will make extensive use of IoT to improve productivity such as agriculture and manufacturing. Some will decline further due to changing habits such as retail. Some will be broadly unaffected such as construction and hospitality. Vehicle maintenance, which is currently a huge employer, may decline as more electric vehicles are introduced. Transport will not change materially other than we will be better connected while travelling, have more journey information and see a gradual growth in driverless vehicles (cars, trains, buses, etc). In essence, the key gains will be in convenience, productivity and reliability. The world will be a similar place to today, but will work better. Finally, chapter twelve looks at the impact that a world of this form would have on the structure of industry, predicting that today''s large digital companies such as Google and Amazon will continue to dominate well into the future. New players such as Uber and Tesla will emerge but at a slowing rate. A few, such as Facebook, might struggle as regulation bites. Connectivity providers such as mobile operators will become utility-like, and their manufacturers will suffer.

Future Smart

Our homes anticipate when we want to wake up. Our computers predict what music we want to buy. Our cars adapt to the way we drive. In today's world, even washing machines, rice cookers and toys have the capability of autonomous decision-making. As we grow accustomed to computing power embedded in our surroundings, it becomes clear that these 'smart environments', with a number of devices controlled by a coordinating system capable of 'ambient intelligence', will play an ever larger role in our lives. This handbook provides readers with comprehensive, up-to-date coverage in what is a key technological field. . Systematically dealing with each aspect of ambient intelligence and smart environments, the text covers everything, from visual information capture and human/computer interaction to multi-agent systems, network use of sensor data, and building more rationality into artificial systems. The book also details a wide range of applications, examines case studies of recent major projects from around the world, and analyzes both the likely impact of the technology on our lives, and its ethical implications. With a wide variety of separate disciplines all conducting research relevant to this field, this handbook encourages collaboration between disparate researchers by setting out the fundamental concepts from each area that are relevant to ambient intelligence and smart environments, providing a fertile soil in which ground-breaking new work candevelop.

Fiber Optic Smart Structures and Skins II

Augmented Materials and Smart Objects investigates the issues required to ensure technology platforms capable of being seamlessly integrated into everyday objects. In particular, it deals with the requirements for integrated computation and MEMs sensors, system-in-a-package solutions, and multi-chip modules. On top of this, the publication's 500 pages cover the

impact of the trend towards embedded microelectronic electronics sub-systems, novel assembly techniques for autonomous MEMs sensors, and practical performance issues that are key to the AmI concept.

Our Digital Future

This book provides a simplified visionary approach about the future direction of IoT, addressing its wide-scale adoption in many markets, its interception with advanced technology, the explosive growth in data, and the emergence of data analytics. IoT business applications span multiple vertical markets. The objective is to inspire creative thinking and collaboration among startups and entrepreneurs which will breed innovation and deliver IoT solutions that will positively impact us by making business processes more efficient, and improving our quality of life. With increasing proliferation of smart-phones and social media, data generated by user wearable/mobile devices continue to be key sources of information about us and the markets around us. Better insights will be gained through cognitive computation coupled with business intelligence and visual analytics that are GIS-based.

Collaborative Internet of Things (C-IoT)

The Future Home in the 5G Era looks at new hyper-connected home environments in which devices and apps will work together seamlessly to respond to and anticipate customers' needs, all with maximum security and privacy. Enabled by 5G, AI, and other new technologies such as eSim and edge computing, the Future Home's powerful service ecosystems will be a quantum leap from today's fragmented smart home technology, effectively extending the boundaries of the home even beyond the traditional bounds of the physical, to ultimately make consumers feel 'at home' anywhere. This will create tremendous opportunities for businesses including communication service providers (CSPs), device manufacturers and app developers, as well as those providing services in diverse sectors such as entertainment, health and social care, education, retail, and more. The Future Home in the 5G Era combines original research from Accenture with practical insights and examples, showing how intelligently orchestrated Future Homes can yield economic success for businesses. Written by leaders of strategy and technology consultancy at Accenture, the authors have vast industry experience leading major units of Fortune 500 companies and start-ups. This book looks at how businesses, especially CSPs, can overcome the challenges and capture the multi-billion-dollar Future Home market by putting strategic emphasis on excellent customer experiences, developing new business models, and turning their organizations into competitively agile platform-based innovators. For business leaders in any sector relevant to the Future Home, this book is an indispensable and value-creating guide.

Futuring

The Future of Intelligent Transport Systems considers ITS from three perspectives: users, business models and regulation/policy. Topics cover in-vehicle applications, such as autonomous driving, vehicle-to-vehicle/vehicle-to-infrastructure communication, and related applications, such as personalized mobility. The book also examines ITS technology enablers, such as sensing technologies, wireless communication, computational technology, user behavior as part of the transportation chain, financial models that influence ITS, regulations, policies and standards affecting ITS, and the future of ITS applications. Users will find a holistic approach to the most recent technological advances and the future spectrum of mobility. Systematically presents the whole spectrum of next generation Intelligent Transport Systems (ITS) technologies Integrates coverage of personalized mobility and digital assistants, big data analytics and autonomous driving Includes end-of-chapter, open-ended questions that trigger thinking on the technological, managerial and regulatory aspects of ITS

FUTURE SMART FOOD

This practical new book presents the application of "big data" analytics to connected vehicles, smart cities, and transportation systems. This book enables transportation professionals to understand how data analytics can and will expand the design and engineering of connected vehicles and smart cities. Readers find extensive case studies and examples that provide a strong framework focusing on practical application of data sciences and analytic tools for actual projects in the field. Both federal and private sector investments have a strong interest in the connected vehicle and this book discusses the impact this has on transportation. This book defines urban analytics and modeling, incentives and governance, mobility networks, energy networks, and other attributes and elements that craft a smart city. Readers learn how smart cities impact the application of advanced technologies in urban areas. This book explains how recently passed transportation legislation for the US has a specific emphasis on the use of data for performance management.

Pivot to the Future

In this report the Committee calls on the Government to provide strategic leadership to ensure the timely delivery of a smart grid. Existing regulatory and policy frameworks, along with the current grid infrastructure, were developed to serve the fossil fuel economy of the twentieth century. By 2020 the UK electricity network will need to accommodate a far more diverse energy mix that includes a much higher proportion of renewables that cannot respond so easily to fluctuating demand. The only cost-effective response to these developments is the creation of a smart grid that intelligently manages demand and supply across the energy system. Concerns noted in the report include: Ofgem granting funding for new grid investment projects before the completion of a fundamental review of how better use can be made of the existing network; the increase in the cost of managing electricity flows across the system caused by inherent flaws in the British Electricity

Trading and Transmission Arrangements (BETTA); the industry's failure to agree a new transmission access regime that will tackle the queue of 60 GW of generation, a large proportion of which is renewables, waiting to connect to the grid; the absence of a "culture of innovation" within the networks sector; the growing shortage of trained people in the networks sector.

Summary of a Workshop on the Future of Antennas

Handbook of Ambient Intelligence and Smart Environments

The must-read summary of Stephen M.R. Covey and Greg Link's book: "Smart Trust: Creating Prosperity, Energy and Joy in a Low-Trust World". This complete summary of the ideas from Stephen M.R. Covey and Greg Link's book "Smart Trust" shows how trust is what keeps commerce running. In their book, the authors explain the principles of trust and why it is so important to the smooth running of your business. This summary will teach you how to generate trust within your company and why it is something you should focus on. Added-value of this summary: • Save time • Understand key concepts • Expand your business knowledge To learn more, read "Smart Trust" and discover the importance of trust within business.

Smart Sustainable Cities of the Future

Master's Thesis from the year 2019 in the subject Economy - Transport Economics, grade: 3, Asia Pacific University of Technology and Innovation (Lord Buddha Education Foundation), course: M. Sc, language: English, abstract: The continuous growth in vehicle numbers has increased the congestion of traffic in maximum urban places in the world. The insufficient space to further expand the road and also the budget to further construct new roads in every city means the country must think about other method to solve this issue. Rather than following the traditional way of just expanding the roads, a system should be adopted that can help reduce the traffic problems. In this research, future scope of STMS in the context of Kathmandu, Nepal is explained. In order to collect the information related to the existing traffic system and the objectives related to the subject matter, quantitative approach of research follows. Also, the benefits of adopting STMS in the current scenario of Kathmandu are described. Various technical challenges need to be overcome in order to adopt STMS. Those challenges are described in this research with proper references to the information collected from the vehicle owners as well as the traffic policemen of Kathmandu through questionnaire.

The Smartest Investment Book You'll Ever Read

This book is intended to help explore the field of smart sustainable cities in its complexity, heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world. Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms, and shaping the way cities will evolve in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains innovative computer–based and data–analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development of computer–based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability. This book seeks to explicitly bring together the smart city and sustainable city endeavors, and to focus on big data analytics and context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context–aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development. This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data–centric and context–aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia industry, and policymaking. It provides the necessary material to inform relevant research communities of the state–of–the–art research and the latest development in the area of smart sustainable urban development, as well as a valuable reference for planners, designers, strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context–aware computing.

Broadband Networks, Smart Grids and Climate Change

The must-read summary of Doug Sundheim's book: "Taking Smart Risks: How Smart Leaders Win When Stakes Are High". This complete summary of the ideas from Doug Sundheim's book "Taking Smart Risks" shows that when you stay in your comfort zone indefinitely, you really don't feel alive. Thus to keep growing, you have to work towards achieving challenging goals which force you to stretch and grow. This summary highlights five things you need to do in order to get in the "smart-risk zone" and stay there. Added-value of this summary: • Save time • Understand key concepts • Expand your knowledge To learn more, read "Taking Smart Risks" and find out why you should break out of your comfort zone and start taking risks

that will help you reach your goals.

Smart Grid

This publication demonstrates the benefits of neglected and underutilized species, including amaranth, sorghum and cowpea, and their potential contribution to achieving Zero Hunger in South and Southeast Asia.

The Future is Smart

Perspectives on the Future of Software Engineering

Power System Monitoring and Control

Smart cities, where technology is used to solve every problem, are hailed as futuristic urban Utopias. But in The Smart Enough City, Ben Green warns against seeing the city only through the lens of technology. In a technology-centric smart city, self-driving cars have the run of downtown and force out pedestrians, civic engagement is limited to requesting services through an app, police use algorithms to justify and perpetuate racist practices, and governments and private companies surveil public space to control behavior. He proposes instead that cities strive to be "smart enough," employing technology to be livable, democratic, just, responsible, and innovative. By recognizing the complexity of urban life rather than merely seeing the city as something to optimize, these smart enough cities successfully incorporate technology into a holistic vision of justice and equity. Book jacket.

Technical Challenges and Future Scope of Smart Traffic Management System Adoption in Kathmandu, Nepal

The Workshop on the Future of Antennas was the second of three workshops conducted by the National Research Council's Committee for Science and Technology Challenges to U.S. National Security Interests. The objectives of the workshop were to review trends in advanced antenna research and design, review trends in commercials and military use of advanced antennas that enable improved communication, data transfer, soldier health monitoring, and other overt and covert methods of standoff data collection. The first day's sessions, consisting of five presentations and discussions on antennas and wireless communications and control, were open to committee members, staff, guests, and members of the public. The

second day was a data-gathering session addressing vulnerabilities, indicators, and observables; presentations and discussions during this session included classified material and were not open to the public. The committee's role was limited to planning and convening the workshop. This report is organized by topic in the order of presentation and discussion at the workshop. For Day 1 the topics were Future of Antennas, Commercial State of the Art of Wireless Communications and Control, Military State of the Art of Wireless Communications and Control, and Future Trends in Antenna Design and Wireless Communications and Control. For Day 2 the topics were Vulnerabilities of Ubiquitous Antennas, and Indicators and Observables, followed by a wrap-up discussion. Summary of a Workshop on the Future of Antennas describes what happened at the workshop.

Society with Future: Smart and Liveable Cities

Are you ready for the IoT revolution? The Internet of Things (IoT) will soon be everywhere—embedded in interconnected devices we'll use every day. Already, cars, appliances, and wearables transmit realtime data to improve performance . . . and new IoT products can even save your life. Consumer goods are just the tip of the iceberg. Amid projections that 30 billion smart devices will be linked in the near future, traditional companies such as Siemens, GE, and John Deere are preparing for profound changes to management, strategy, manufacturing, and maintenance. With the IoT, for example, sensors warn when a critical assembly-line part is about to break, or track how customers actually use products. Data hubs collect and share information instantly with departments, supply chains, partners, and customers— anchoring the organization and replacing hierarchies with circular systems. The Future is Smart documents the shifts now under way. Written by a leading IoT strategist, the book explains how companies are tapping technology to: Optimize supply chains • Maximize quality • Boost safety • Increase efficiency • Reduce waste • Cut costs • Revolutionize product design • Delight customers For those who are ready, the opportunities are endless. This big-think book reveals concrete actions for thriving in this new tech-enabled world.

The Future Home in the 5G Era

This book bridges the divide between the fields of power systems engineering and computer communication through the new field of power system information theory. Written by an expert with vast experience in the field, this book explores the smart grid from generation to consumption, both as it is planned today and how it will evolve tomorrow. The book focuses upon what differentiates the smart grid from the "traditional" power grid as it has been known for the last century. Furthermore, the author provides the reader with a fundamental understanding of both power systems and communication networking. It shows the complexity and operational requirements of the evolving power grid, the so-called "smart grid," to the communication networking engineer; and similarly, it shows the complexity and operational requirements for

communications to the power systems engineer. The book is divided into three parts. Part One discusses the basic operation of the electric power grid, covering fundamental knowledge that is assumed in Parts Two and Three. Part Two introduces communications and networking, which are critical enablers for the smart grid. It also considers how communication and networking will evolve as technology develops. This lays the foundation for Part Three, which utilizes communication within the power grid. Part Three draws heavily upon both the embedded intelligence within the power grid and current research, anticipating how and where computational intelligence will be implemented within the smart grid. Each part is divided into chapters and each chapter has a set of questions useful for exercising the readers' understanding of the material in that chapter. Key Features: Bridges the gap between power systems and communications experts Addresses the smart grid from generation to consumption, both as it is planned today and how it will likely evolve tomorrow Explores the smart grid from the perspective of traditional power systems as well as from communications Discusses power systems, communications, and machine learning that all define the smart grid It introduces the new field of power system information theory

Newsmakers

Ambient Intelligence with Microsystems

Power System Monitoring and Control (PSMC) is becoming increasingly significant in the design, planning, and operation of modern electric power systems. In response to the existing challenge of integrating advanced metering, computation, communication, and control into appropriate levels of PSMC, Power System Monitoring and Control presents a comprehensive overview of the basic principles and key technologies for the monitoring, protection, and control of contemporary wide-area power systems. A variety of topical issues are addressed, including renewable energy sources, smart grids, wide-area stabilizing, coordinated voltage regulation, and angle oscillation damping—as well as the advantages of phasor measurement units (PMUs) and global positioning systems (GPS) time signal. End-of-chapter problems and solutions, along with case studies, add depth and clarity to all topics. Timely and important, Power System Monitoring and Control is an invaluable resource for addressing the myriad of critical technical engineering considerations in modern electric power system design and operation. • Provides an updated and comprehensive reference for researcher and engineers working on wide-area power system monitoring and control (PSMC) • Links fundamental concepts of PSMC, advanced metering and control theory/techniques, and practical engineering considerations • Covers PSMC problem understanding, design, practical aspects, and timely topics such as smart/microgrid control and coordinated voltage regulation and angle oscillation damping • Incorporates authors' experiences teaching and researching in various international locales including Japan, Thailand, Singapore, Malaysia, Iran, and Australia

Smart Couples Finish Rich, Revised and Updated

The dependence on quality software in all areas of life is what makes software engineering a key discipline for today's society. Thus, over the last few decades it has been increasingly recognized that it is particularly important to demonstrate the value of software engineering methods in real-world environments, a task which is the focus of empirical software engineering. One of the leading protagonists of this discipline worldwide is Prof. Dr. Dr. h.c. Dieter Rombach, who dedicated his entire career to empirical software engineering. For his many important contributions to the field he has received numerous awards and recognitions, including the U.S. National Science Foundation's Presidential Young Investigator Award and the Cross of the Order of Merit of the Federal Republic of Germany. He is a Fellow of both the ACM and the IEEE Computer Society. This book, published in honor of his 60th birthday, is dedicated to Dieter Rombach and his contributions to software engineering in general, as well as to empirical software engineering in particular. This book presents invited contributions from a number of the most internationally renowned software engineering researchers like Victor Basili, Barry Boehm, Manfred Broy, Carlo Ghezzi, Michael Jackson, Leon Osterweil, and, of course, by Dieter Rombach himself. Several key experts from the Fraunhofer IESE, the institute founded and led by Dieter Rombach, also contributed to the book. The contributions summarize some of the most important trends in software engineering today and outline a vision for the future of the field. The book is structured into three main parts. The first part focuses on the classical foundations of software engineering, such as notations, architecture, and processes, while the second addresses empirical software engineering in particular as the core field of Dieter Rombach's contributions. Finally, the third part discusses a broad vision for the future of software engineering.

Smart Change: Lessons of the Past, Direction for the Future

Updated and revised for a new generation of couples, David Bach's classic money guide teaches couples how to build stable financial wealth that lasts. David Bach, nationally renowned financial advisor and author of the bestselling Smart Women Finish Rich, knows that it doesn't have to be this way. After years of first-hand experience working with couples young and old, David Bach reveals that through communication and partnership, planning your finances together can be both fun and easy when you have the right tools. In Smart Couples Finish Rich, Expanded and Updated, David Bach offers couples a step-by-step guide to building and maintaining financial wealth that has been tailored to fit our current economy, but will last for years to come. Instead of avoiding each other when it comes time to balance the checkbook, you and your partner will learn how to come together and identify your core values and dreams, creating a spending and saving plan that reflects your values as a couple. Packed with easy-to-use tools that will take you from credit-card management to long-term care, each chapter will guide you and your partner as a team toward a more rewarding financial plan based on the same overall financial objectives. The Smart Couples Finish Rich nine-step journey provides every couple with strategies for organization,

communication, and smarter spending that you can put into action immediately. This journey reveals: * The Couples' Latte Factor -- how to build a million-dollar portfolio on $3.50 a day * How to talk to your partner about money without fighting * How to increase your income by 10 percent in nine weeks * The FinishRich File Folder System -- giving yourself a financial clean-up * The 10 biggest mistakes couples can make A book for couples of all ages and all tax brackets, Smart Couples Finish Rich is the ultimate guide for creating a lifetime of wealth--both personal and financial.

The Future of Intelligent Transport Systems

Dr. James Canton, a renowned futurist, CEO of the Institute for Global Futures, and Fortune 1000 advisor, charts a course to steer you through the volatile changes that lie 5, 10, and 20 years ahead. The Extreme Future is this generation's Future Shock, Alvin Toffler's classic book on what's next and how to prepare for tomorrow. Get ready for fast, radical and complex change. Get ready for the Extreme Future. Our world is constantly buffeted by new and dramatic changes that we can't fully grasp. No one is fully prepared for the challenges, crises and risks that lie ahead. The Extreme Future is a blueprint for what's next and how to navigate these changes. An advisor to three White House's spanning more than 30 years, Dr. Canton challenges us that with the right information about future trends it is possible to identify probable outcomes. It is possible, with the right information to navigate the Extreme Future. The book covers the following major trends: How climate change and energy trends will reshape the planet How shifting population trends will transform the workforce How radical innovation trends will competitively drive business How astounding medicine trends will enhance people's life How dangerous terrorism trends will threaten the individual. How the rise of China will bring on a new global power struggle The answers to these questions are not only available, but contained within these pages. The Extreme Future is the forecasting handbook for the twenty-first century.

Too Smart

The must-read summary of Jagmohan Raju and W. John Zhang's book: "Smart Pricing: How Google, Priceline, and Leading Businesses Use Pricing Innovation for Profitability". This complete summary of the ideas from Jagmohan Raju and W. John Zhang's book "Smart Pricing" demonstrates that many companies fail to establish a deliberate pricing strategy. In fact, many managers rarely give pricing much thought at all. In their book, the authors explain that this is a huge mistake as pricing offers an opportunity to move ahead. This summary provides readers with an insight into the possibilities of different pricing strategies and how some of the biggest companies have used them to push their companies forward. Added-value of this summary: • Save time • Understand key concepts • Expand your business knowledge To learn more, read "Smart Pricing" and discover the key to establishing innovative pricing strategies that create value and capture customers.

Summary: Smart Pricing

Humility Is the New Smart Your job is at risk—if not now, then soon. We are on the leading edge of a Smart Machine Age led by artificial intelligence that will be as transformative for us as the Industrial Revolution was for our ancestors. Smart machines will take over millions of jobs in manufacturing, office work, the service sector, the professions, you name it. Not only can they know more data and analyze it faster than any mere human, say Edward Hess and Katherine Ludwig, but smart machines are free of the emotional, psychological, and cultural baggage that so often mars human thinking. So we can't beat 'em and we can't join 'em. To stay relevant, we have to play a different game. Hess and Ludwig offer us that game plan. We need to excel at critical, creative, and innovative thinking and at genuinely engaging with others—things machines can't do well. The key is to change our definition of what it means to be smart. Hess and Ludwig call it being NewSmart. In this extraordinarily timely book, they offer detailed guidance for developing NewSmart attitudes and four critical behaviors that will help us adapt to the new reality. The crucial mindset underlying NewSmart is humility—not self-effacement but an accurate self-appraisal: acknowledging you can't have all the answers, remaining open to new ideas, and committing yourself to lifelong learning. Drawing on extensive multidisciplinary research, Hess and Ludwig emphasize that the key to success in this new era is not to be more like the machines but to excel at the best of what makes us human.

Summary: Max-e-Marketing in the Net Future

What Are You Waiting For? This book will change the way you think about investing-and the results will prove it! "This is the simple hands-on, how-to and why book many readers have been looking for." -Scott Burns, syndicated columnist Daniel Solin cuts through the financial hype to show you exactly how to invest-with an easy-to-follow four-step plan that lets you create and monitor your investment portfolio in ninety minutes or lessand put your investment earnings in the top 5 percent of all professionally managed money. If you want to gamble, go to Las Vegas-or try stock picking and market timing. If you want to be a Smart Investor, follow this effortless and effective plan. "The Smartest Investment Book You'll Ever Read will provide the enlightenment and gumption to free yourself from the clutches of the investment industry and the wisdom and direction necessary to get yourself back on track." -William Bernstein, author of A Splendid Exchange and The Four Pillars of Investing Every day you wait costs you money. Take control of your financial future now!

Fiber Optic Smart Structures and Skins

Today, even the largest development organizations are turning to agile methodologies, seeking major productivity and quality improvements. However, large-scale agile development is difficult, and publicly available case studies have been scarce. Now, three agile pioneers at Hewlett-Packard present a candid, start-to-finish insider's look at how they've

succeeded with agile in one of the company's most mission-critical software environments: firmware for HP LaserJet printers. This book tells the story of an extraordinary experiment and journey. Could agile principles be applied to re-architect an enormous legacy code base? Could agile enable both timely delivery and ongoing innovation? Could it really be applied to 400+ developers distributed across four states, three continents, and four business units? Could it go beyond delivering incremental gains, to meet the stretch goal of 10x developer productivity improvements? It could, and it did—but getting there was not easy. Writing for both managers and technologists, the authors candidly discuss both their successes and failures, presenting actionable lessons for other development organizations, as well as approaches that have proven themselves repeatedly in HP's challenging environment. They not only illuminate the potential benefits of agile in large-scale development, they also systematically show how these benefits can actually be achieved. Coverage includes: • Tightly linking agile methods and enterprise architecture with business objectives • Focusing agile practices on your worst development pain points to get the most bang for your buck • Abandoning classic agile methods that don't work at the largest scale • Employing agile methods to establish a new architecture • Using metrics as a "conversation starter" around agile process improvements • Leveraging continuous integration and quality systems to reduce costs, accelerate schedules, and automate the delivery pipeline • Taming the planning beast with "light-touch" agile planning and lightweight long-range forecasting • Implementing effective project management and ensuring accountability in large agile projects • Managing tradeoffs associated with key decisions about organizational structure • Overcoming U.S./India cultural differences that can complicate offshore development • Selecting tools to support quantum leaps in productivity in your organization • Using change management disciplines to support greater enterprise agility

Smart Health

This book constitutes the refereed post-conference proceedings of the First International Conference on Society with Future: Smart and Liveable Cities, SC4Life 2019, which took place in Braga, Portugal, in December 2019. The 13 revised full papers were carefully reviewed and selected from 19 submissions. The conference has brought researchers, developers, and practitioners who are leveraging and develoing new knowledge on the topic of smart cities, offering more efficiency to main infrastructures, utilities and services, creating a sustainable urban environment that improves the quality of life for its citizens and enhances economic development.

Big Data Analytics for Connected Vehicles and Smart Cities

Will the use of artificial intelligence (AI), algorithms, and smart machines be the end of journalism as we know it—or its savior? In Newsmakers, Francesco Marconi, who has led the development of the Associated Press and Wall Street Journal's use of AI in journalism, offers a new perspective on the potential of these technologies. He explains how reporters, editors,

and newsrooms of all sizes can take advantage of the possibilities they provide to develop new ways of telling stories and connecting with readers. Marconi analyzes the challenges and opportunities of AI through case studies ranging from financial publications using algorithms to write earnings reports to investigative reporters analyzing large data sets to outlets determining the distribution of news on social media. Newsmakers contends that AI can augment—not automate—the industry, allowing journalists to break more news more quickly while simultaneously freeing up their time for deeper analysis. Marshaling insights drawn from firsthand experience, Marconi maps a media landscape transformed by artificial intelligence for the better. In addition to considering the benefits of these new technologies, Marconi stresses the continuing need for editorial and institutional oversight. Newsmakers outlines the important questions that journalists and media organizations should consider when integrating AI and algorithms into their workflow. For journalism students as well as seasoned media professionals, Marconi's insights provide much-needed clarity and a practical roadmap for how AI can best serve journalism.

Lighting California's Future : Novel Light-emitting Diode Downlights

The must-read summary of Stan Rapp and Chuck Martin's book: "Max-e-Marketing in the Net Future: The Seven Imperatives for Outsmarting the Competition in the Net Economy". This complete summary of the ideas from Stan Rapp and Chuck Martin's book "Max-e-Marketing in the Net Future" shows that every company needs to understand the concept of max-e-marketing and apply it in order to focus on profits and create more added-value for customers. In their book, the authors explain max-e-marketing by focusing on three main areas: establishing good relationships, good experiences and accumulating value by accumulating the value of those relationships. This summary demonstrates how each of these areas can be improved to ensure that you are a market leader for years to come. Added-value of this summary: • Save time • Understand key concepts • Expand your knowledge To learn more, read "Max-e-Marketing in the Net Future" and find out how you can make sure you don't get left behind.

The House on Mango Street

The bestselling coming-of-age classic, acclaimed by critics, beloved by readers of all ages, taught in schools and universities alike, and translated around the world from the winner of the 2018 PEN/Nabokov Award for Achievement in International Literature. The House on Mango Street is the remarkable story of Esperanza Cordero, a young Latina girl growing up in Chicago, inventing for herself who and what she will become. Told in a series of vignettes-sometimes heartbreaking, sometimes deeply joyous-Sandra Cisneros' masterpiece is a classic story of childhood and self-discovery. Few other books in our time have touched so many readers.

Summary: Taking Smart Risks

Game-changing trends are coming in business, technology, workforce, economy, security, and environment. Climate change, energy demand, and population growth will redefine global risk and power. Exponential new technologies will emerge in digital money, mobile commerce, and big data. An explosive new middle class of over one billion consumers will enter the marketplace. Every nation, job, business, and person will be transformed. To thrive in this future you have to become predictive, adaptive, and agile—to become Future Smart. Dr. James Canton, a renowned global futurist and visionary business advisor, illuminates the pivotal forces and global power shifts that everyone must understand today to thrive in a rapidly changing landscape: Regenerative medicine will extend our lifetimes and rebuild our bodies Robots and drones will drive our cars, teach our kids, and fight our wars Smart machines will design, manage, and service 40% of all global businesses—energy, commerce, finance, and manufacturing—without humans Digital consumers who live always connected will challenge every business to change its strategy Climate change wars will redefine security and resources Most of us are not prepared to meet the challenges the future will bring, but these changes are coming fast. Armed with knowledge, those who are Future Smart can take action to reinvent themselves, their businesses, and their world.

Summary: Smart Trust

The proven, effective strategy for reinventing your business in the age of ever-present disruption Disruption by digital technologies? That's not a new story. But what is new is the "wise pivot," a replicable strategy for harnessing disruption to survive, grow, and be relevant to the future. It's a strategy for perpetual reinvention across the old, now, and new elements of any business. Rapid recent advances in technology are forcing leaders in every business to rethink long-held beliefs about how to adapt to emerging technologies and new markets. What has become abundantly clear: in the digital age, conventional wisdom about business transformation no longer works, if it ever did. Based on Accenture's own experience of reinventing itself in the face of disruption, the company's real world client work, and a rigorous two-year study of thousands of businesses across 30 industries, Pivot to the Future reveals methodical and bold moves for finding and releasing new sources of trapped value-unlocked by bridging the gap between what is technologically possible and how technologies are being used. The freed value enables companies to simultaneously reinvent their legacy, and current and new businesses. Pivot to the Future is for leaders who seek to turn the existential threats of today and tomorrow into sustainable growth, with the courage to understand that a wise pivot strategy is not a one-time event, but a commitment to a future of perpetual reinvention, where one pivot is followed by the next and the next.

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