

T Plan The Fast Start To Technology Roadmapping P

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From Business Strategy to Information Technology Roadmap - Tiffany Pham 2018-09-03

Whether you are a CEO, CFO, board member, or an IT executive, From Business Strategy to Information Technology Roadmap: A Practical Guide for Executives and Board Members lays out a practical, how-to approach to identifying business strategies and creating value-driven technology roadmaps in your organization. Unlike many other books on the subject, you will not find theories or grandiose ideas here. This book uses numerous examples, illustrations, and case studies to show you how to solve the real-world problems that business executives and technology

leaders face on a day-to-day basis. Filled with actionable advice you can use immediately, the authors introduce Agile and the Lean mindset in a manner that the people in your business and technology departments can easily understand. Ideal for executives in both the commercial and nonprofit sectors, it includes two case studies: one about a commercial family business that thrived to become a multi-million-dollar company and the other about a nonprofit association based in New York City that fights against child illiteracy.

Werkzeuge des Wandels - Heiko Roehl 2012-03-12

Die zukunftsorientierte Gestaltung von Veränderungen ist heute

unerlässlich für die Wettbewerbsfähigkeit von Organisationen. Wie der Wandel professionell gestaltet wird, zeigt dieses Buch. Es stellt die 30 wirkungsvollsten Change-Tools vor und erklärt, wie und wann sie am besten funktionieren. Ausführlich werden nicht nur die wichtigsten Schritte zur Umsetzung dargestellt, sondern auch Möglichkeiten, Grenzen und häufig auftretende Schwierigkeiten bei der Anwendung.

Roadmapping Field Study Update 2023. How are roadmaps applied in the real world? - Sven Schimpf 2023-05-10

Roadmapping as a method for integrated strategic planning of products, technologies, processes, services, or business models is in the focus of the Roadmapping Field Study. Since the contents and areas of application of roadmaps vary greatly in practice, we set ourselves the goal for the Roadmapping Field Study of finding out how roadmapping is used in the real world. The study was first conducted in 2015. The current study is an online survey with 190 participants. We asked for the organizational areas of application and the content, the organizational integration, the use of information sources, methods, and tools as well as for the challenges and best practices. In addition to the results, differences to the 2015 study as well as correlations are discussed. The results include, for example, that roadmaps are predominantly used for products in strategic planning and rather rarely for production planning.

Modeling for Decision Support in Network-Based Services - Daniel Dolk
2012-01-16

The second of two volumes, this book covers self-organisation and non-linear dynamics in electrochemical systems. Each description includes an introduction to basic concepts of nonlinear dynamics, helping the reader to a deeper understanding of core concepts.

Enhancing Synergies in a Collaborative Environment - Pablo Cortés
2015-02-04

This volume contains a selection of the best papers presented at the 8th International Conference on Industrial Engineering and Industrial Management, XX International Conference on Industrial Engineering and Operations Management, and International IIE Conference 2014, hosted by ADINGOR, ABEPRO and the IIE, whose mission is to promote links between researchers and practitioners from different branches, to enhance an interdisciplinary perspective of industrial engineering and management. The conference topics covered: operations research, modelling and simulation, computer and information systems, operations research, scheduling and sequencing, logistics, production and information systems, supply chain and logistics, transportation, lean management, production planning and control, production system design, reliability and maintenance, quality management, sustainability and eco-efficiency,

marketing and consumer behavior, business administration and strategic management, economic and financial management, technological and organizational innovation, strategy and entrepreneurship, economics engineering, enterprise engineering, global operations and cultural factors, operations strategy and performance, management social responsibility, environment and sustainability. This book will be of interest to researchers and practitioners working in any of the fields mentioned above.

Management, a Bibliography for NASA Managers - 1989

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21st Century Manufacturing Enterprise Strategy - Roger N. Nagel

1991-06-01

This is Volume 1 of a report addressing the future of American industry. It has been written in response to the transformation of manufacturing practices that is currently in progress. Volume 1 of a two-volume report on the global competitive environment U.S. manufacturing will face, and the infrastructure it will require, in order to compete as it moves over the next 15 years into the 21st century. The developments described in the report

present a unique opportunity to capitalize on distinctive U.S. strengths; failure to seize this opportunity will put the standard of living of the American people at profound risk.

Your Strategy Needs a Strategy - Martin Reeves 2015-05-19

You think you have a winning strategy. But do you? Executives are bombarded with bestselling ideas and best practices for achieving competitive advantage, but many of these ideas and practices contradict each other. Should you aim to be big or fast? Should you create a blue ocean, be adaptive, play to win—or forget about a sustainable competitive advantage altogether? In a business environment that is changing faster and becoming more uncertain and complex almost by the day, it's never been more important—or more difficult—to choose the right approach to strategy. In this book, The Boston Consulting Group's Martin Reeves, Knut Haanæs, and Janmejaya Sinha offer a proven method to determine the strategy approach that is best for your company. They start by helping you assess your business environment—how unpredictable it is, how much power you have to change it, and how harsh it is—a critical component of getting strategy right. They show how existing strategy approaches sort into five categories—Be Big, Be Fast, Be First, Be the Orchestrator, or simply Be Viable—depending on the extent of predictability, malleability, and harshness. In-depth explanations of each of these approaches will

provide critical insight to help you match your approach to strategy to your environment, determine when and how to execute each one, and avoid a potentially fatal mismatch. Addressing your most pressing strategic challenges, you'll be able to answer questions such as: • What replaces planning when the annual cycle is obsolete? • When can we—and when should we—shape the game to our advantage? • How do we simultaneously implement different strategic approaches for different business units? • How do we manage the inherent contradictions in formulating and executing different strategies across multiple businesses and geographies? Until now, no book brings it all together and offers a practical tool for understanding which strategic approach to apply. Get started today.

Managing Innovation - John Ettlíe 2007-06-07

Managing Innovation: New Technology, New Products, and New Services in a Global Economy, 2nd Edition is devoted to providing a better understanding and better management of all of the causes and consequences of change that have technological implications in and around our global organizations. This text is a unique, original contribution and represents a significant alternative to the collection of chapters written by others. The second edition has new cases with a few classics from the first edition that have been retained in response to reader feedback. The

key subjects that are included have been significantly updated and treated in greater depth. The number of chapters has been reduced from 12 to 10 so it is easy to adapt to almost any course or training on the subject in any discipline or to any audience. This exceptionally informative book provides a broad perspective on how technological change can be effectively managed in modern organizations. The text explains the conceptual frameworks supported by new and original case studies for start-up companies like Askmen.com, the complex challenges of managing international technology-based companies like NexPress (a joint venture of Kodak and Heidelberg) in the digital printing industry, and corporate sustainability using innovative new product technologies illustrated by the case of Evinrude's launch of the E-tec® outboard motor. John E. Ettlíe's three decades in the field of innovation as an instructor and researcher bring an exceptional perspective to this subject. His text is unique in its discussion of how technology has transformed the service sector. Few books on technology make the distinction between new offerings in manufacturing and the service sector which is emphasized in this text.

IEEE International Engineering Management Conference - 2004

QFD - Lin Chih Cheng

O método QFD busca a satisfação do cliente e induz a construção de

sistema de desenvolvimento de produto robusto nas organizações. Esta obra mostra com profundidade esse método de ouvir com eficácia a voz do cliente, traduzi-la com precisão para especificações de engenharia e transmiti-la para produção com o propósito da garantia de qualidade do produto. É apresentado também aplicação de casos reais em variados setores industriais como exemplos que facilitam o entendimento e a utilização do método. Este livro é destinado a gerentes e profissionais que trabalham com desenvolvimento de produtos nas áreas de Marketing, P&D e Produção das empresas, e aos alunos de graduação e pós-graduação em Engenharia e Administração.

The Dark Side of Technological Innovation - Bing Ran 2013-04-01

Managing technological innovations and related policy and strategy issues have been a central focus of the new millennium. This book series presents an interdisciplinary scholarship and dialogue on the management of innovation and technological change in a global context from a variety of perspectives, including strategic, managerial, behavioral, and policy issues. Papers selected in this volume have four prominent themes: the wide spread interests and the global application of the technological innovation; the practicality of the research on technological innovation implementation to foster success and financial growth; the socio-technical challenges behind innovation and creativity that might outweigh the

benefits; and the new principles/practices/perspectives on our understanding of the technological innovation. Contributed by prominent scholars and practitioners from around the world in innovation, management and policy area, this book will become a very useful read for anyone who is interested in learning the most contemporary perspectives on the subject.

Technological Applications and Advancements in Service Science, Management, and Engineering - Galup, Stuart D. 2012-05-31

Services play a central role in the economies of nations and in global commerce, and to some extent we are all in the field of service.

Technological Applications and Advancements in Service Science, Management, and Engineering is a compendium of research that proves to be an indispensable resource for cutting-edge knowledge in service science understood as a broad research field that embodies all the aspects that relate to services, their planning, design, operation, evaluation, and improvement. Perfect for academic researchers and practicing professionals, this volume serves as a vehicle for the development of service science and how good services are devised and engineered to get the maximum value for their efforts.

Proceedings - 2005

Hierarchical Decision Modeling - Tugrul U. Daim 2015-07-25

This volume, developed in honor of Dr. Dundar F. Kocaoglu, aims to demonstrate the applications of the Hierarchical Decision Model (HDM) in different sectors and its capacity in decision analysis. It is comprised of essays from noted scholars, academics and researchers of engineering and technology management around the world. This book is organized into five parts: Technology Policy Planning, Strategic Technology Planning, Technology Assessment, Application Extensions, and Methodology Extensions. Dr. Dundar F. Kocaoglu is one of the pioneers of multiple decision models using hierarchies, and creator of the HDM in decision analysis. HDM is a mission-oriented method for evaluation and/or selection among alternatives. A wide range of alternatives can be considered, including but not limited to, different technologies, projects, markets, jobs, products, cities to live in, houses to buy, apartments to rent, and schools to attend. Dr. Kocaoglu's approach has been adopted for decision problems in many industrial sectors, including electronics research and development, education, government planning, agriculture, energy, technology transfer, semiconductor manufacturing, and has influenced policy locally, nationally, and internationally. Moreover, his students developed advanced tools and software applications to further improve and enhance the robustness of the HDM approach. Dr. Kocaoglu has

made many contributions to the field of Engineering and Technology Management. During his tenure at Portland State University, he founded the Engineering and Technology Management program, where he served as Program Director and later, Department Chair. He also started the Portland International Conference on Management of Engineering and Technology (PICMET), which organizes an annual conference in international locations such as Korea, Turkey, South Africa, Thailand, and Japan. His teaching has won awards and resulted in a strong sense of student loyalty among his students even decades later. Through his academic work and research, Dr. Kocaoglu has strongly supported researchers of engineering management and has provided tremendous service to the field. This volume recognizes and celebrates Dr. Kocaoglu's profound contributions to the field, and will serve as a resource for generations of researchers, practitioners and students.

Bringing Technology and Innovation into the Boardroom - European Institute for Technology and Innovation Management 2003-12-19

Europe is waking up to the challenge of technology and innovation. We see EU commitment to spend 3% of GDP on R&D, but who is thinking about how to spend? Who is thinking about technology management? Does the corporate board have the means to manage this spend? Should some percentage of the R&D be spent on improving technology and

innovation management? This is where this book makes a contribution. It brings together the latest practice, research findings and thinking, presented in a way that addresses top management requirements. The goal is to secure the economic future of the firm, in the context of a sustainable industry and society. Using the ideas and methods in this book, the board can assess and improve its own ability to deal with the challenge of technology and innovation.

Innovationsmanagement - Keith Goffin 2013-10-08

Innovationen gibt es viele. Doch nur die wenigsten setzen sich auch durch. Da stellt sich die Frage nach dem Warum! Was unterscheidet diese erfolgreichen Innovationen von den vielen anderen, die im Bestfall nach einer kurzen Blütezeit wieder in der Versenkung verschwunden sind? Sind sie wirklich einfach nur besser? Nein, zumindest nicht immer, sagen die Autoren Goffin, Herstatt und Mitchell. Ein wesentlicher Faktor, der über Erfolg oder Misserfolg entscheidet, ist ein gutes Innovationsmanagement. Welche Theorien und Ansätze es gibt, wann diese angewendet werden können und wie sinnvolles Innovationsmanagement aussehen sollte, zeigt dieses Buch in anschaulicher Weise anhand von fast 60 erfolgreichen Beispielen.

Management - 1990

Software Engineering Approaches for Offshore and Outsourced

Development - Olly Gotel 2009-07-01

SEAFOOD 2009: Enabling Global Partnerships to Deliver on Business Needs Companies have been outsourcing areas of software development work for many years, either because of the engineering challenges or because the outsourced aspect is not central to their core business. A profound transformation has been affecting this model over recent years: a massive transfer of development activities from the USA and Europe to a skilled labor force in service-providing countries. This transformation has been driven by the demands of a global business climate seeking to increase the value delivery of IT investment. However, the ability to realize this value can prove problematic in practice. Of particular concern are the hidden costs of globally distributed models of working, such as understanding and communicating the true business needs across organizational and cultural boundaries. To address such issues, offshore outsourcing requires different support from in-house development and this means adapting familiar techniques, processes and tools to this setting, as well as perhaps creating innovative new ones. Coupled with this industry transformation there is hence a pressing need to re-examine those software engineering approaches that either facilitate or impede this model of working. With an inevitable focus on the economy

in 2009, business decisions regarding the sourcing of software development projects will come under close scrutiny. It will become increasingly critical to design global partnerships that both clarify cost/benefits and enable delivery on business needs.

Advances in Sustainable Manufacturing - Günther Seliger 2011-05-27

Non-renewable materials can no longer be disposed once humankind's ever increasing needs cannot be fulfilled anymore due to limited resources. Reuse and recycling become inevitable requirements for product and process design. Renewable resources must not be consumed in quantities higher than can be regained. New technologies have to be developed and applied for a Sustainable Product Development and Life Cycle Engineering to fulfill the needs of humankind, protecting public health, welfare, and environment. The 8th Global Conference on Sustainable Manufacturing brings together some of the world's leading experts to present a scientific conference in Abu Dhabi, one of the world's fastest growing economies and a global leader in the development of sustainable technologies. The conference will focus on 7 areas: Value adding by sustainable manufacturing in the UAE Potentials of renewables Education for sustainability engineering Green supply chain and transportation Microelectronics and resource efficiency Technology driven startups Sustainable products and manufacturing processes

Software Process Improvement and Capability Determination - Terry Rout
2015-06-02

This book constitutes the refereed proceedings of the 15th International Conference on Software Process Improvement and Capability Determination, SPICE 2015, held in Gothenburg, Sweden, in June 2015.

The 17 revised full papers presented together with three short papers were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on industrial frameworks; implementation and assessment; process improvement; agile processes; assessment and maturity models; process and education.

NASA Space Technology Roadmaps and Priorities - National Research Council 2012-06-07

NASA's Office of the Chief Technologist (OCT) has begun to rebuild the advanced space technology program in the agency with plans laid out in 14 draft technology roadmaps. It has been years since NASA has had a vigorous, broad-based program in advanced space technology development and its technology base has been largely depleted. However, success in executing future NASA space missions will depend on advanced technology developments that should already be underway. Reaching out to involve the external technical community, the National Research Council (NRC) considered the 14 draft technology roadmaps

prepared by OCT and ranked the top technical challenges and highest priority technologies that NASA should emphasize in the next 5 years. This report provides specific guidance and recommendations on how the effectiveness of the technology development program managed by OCT can be enhanced in the face of scarce resources.

Knowledge Innovation Through Intelligent Software Methodologies, Tools and Techniques - H. Fujita 2020-09-30

Software methodologies, tools and techniques have become an ever more important part of our lives, and are crucial to the decision-making processes that affect us every day. This book presents papers from the 19th International Conference on New Trends in Intelligent Software Methodology Tools, and Techniques (SoMeT20), held in Kitakyushu, Japan from 22–24 September 2020. The SoMeT conferences bring together researchers and practitioners to share their original research results and experience of practical developments in software science and related new technologies, and this book explores new trends and theories that highlight the direction and development of intelligent software methodologies, tools and techniques. It covers newly developed techniques, enhanced methodologies, software related solutions and recently developed tools, as well as indicating the direction of future research, and the 40 revised papers included here have been selected by

the SoMeT20 international reviewing committee on the basis of technical soundness, relevance, originality, significance, and clarity. The book is divided into 5 chapters: artificial intelligence techniques on software engineering, and requirement engineering; software methods for informatics, medical informatics and bio-medicine applications; applied software tools, techniques and related software engineering models; intelligent-software systems design, software quality, software evolution and validation techniques; and knowledge science and intelligent computing. Providing an overview of the state-of-the-art in software science and its supporting technology, this book will be of interest to all those working in the field.

Annals of Industrial Engineering 2012 - J. Carlos Prado-Prado 2013-12-03
Proceedings of the 6th International Conference on Industrial Engineering and Industrial Management and the XVI Congreso de Ingeniería de Organización (CIO 2012). The aim of CIO is to establish a forum for the open and free exchange of ideas, opinions and academic experiences about research, technology transfer or successful business experiences in the field of Industrial Engineering. The CIO 2012 is an annual meeting promoted by “Asociación para el Desarrollo de la Ingeniería de Organización” (Industrial Engineers Association, ADINGOR) with a Scientific Committee composed of 61 international referees and more than

200 professionals from 7 countries. A selection of the lectures and presentations made over three days by researchers and practitioners from different countries are presented here. A range of topics is covered including: A selection of the lectures and presentations made over three days by researchers and practitioners from different countries are presented here. A range of topics is covered including: · Business Administration & Economic Environment · Technological & Organizational Innovation · Logistics & Supply Chain Management · Production & Operations Management · Management Systems & Sustainability The conference in Industrial Engineering (CIO) and its proceedings are an excellent platform for the dissemination of the outputs of the scientific projects developed in the frame of the International Research and Development plans.

Managing Innovation Driven Companies - Hugo Tschirky 2010-12-14

Emphasizing the practical side of Technology and Innovation Management, this book includes significant contributions to the practice of strategizing, management of competences and innovation management. While the findings are research-based, each contribution has 'managerial implications' which cover the recommended implementation.

Roadmapping Future - Tuğrul U. Daim 2021-03-16

This volume presents a portfolio of cases and applications on technology

roadmapping (TRM) for products and services. It provides a brief overview on criteria or metrics used for evaluating the success level of TRM and then offers six case examples from sectors such as transportation, smart technologies and household electronics. A new innovation in this book is a section of detailed technology roadmap samples that technology managers can apply to emerging technologies.

Systems Engineering in Context - Stephen Adams 2019-06-21

This volume chronicles the 16th Annual Conference on System Engineering Research (CSER) held on May 8-9, 2018 at the University of Virginia, Charlottesville, Virginia, USA. The CSER offers researchers in academia, industry, and government a common forum to present, discuss, and influence systems engineering research. It provides access to forward-looking research from across the globe, by renowned academicians as well as perspectives from senior industry and government representatives. Co-founded by the University of Southern California and Stevens Institute of Technology in 2003, CSER has become the preeminent event for researchers in systems engineering across the globe. Topics include though are not limited to the following: Systems in context: · Formative methods: requirements · Integration, deployment, assurance · Human Factors · Safety and Security Decisions/ Control & Design; Systems Modeling: · Optimization, Multiple Objectives, Synthesis · Risk and

resiliency · Collaborative autonomy · Coordination and distributed decision-making Prediction: · Prescriptive modeling; state estimation · Stochastic approximation, stochastic optimization and control Integrative Data engineering: · Sensor Management · Design of Experiments

Management of Technology - Laure Morel-Guimaraes 2005-06

The 12th International Conference of the International Association for Management of Technology (IAMOT) held in March 2002 in Nancy, France, focused on "Innovation and Sustainable Development". This book represents a selection of the best contributions presented in Nancy.

[Why Startups Fail](#) - Tom Eisenmann 2021-03-30

If you want your startup to succeed, you need to understand why startups fail. "Whether you're a first-time founder or looking to bring innovation into a corporate environment, *Why Startups Fail* is essential reading."—Eric Ries, founder and CEO, LTSE, and New York Times bestselling author of *The Lean Startup* and *The Startup Way* Why do startups fail? That question caught Harvard Business School professor Tom Eisenmann by surprise when he realized he couldn't answer it. So he launched a multiyear research project to find out. In *Why Startups Fail*, Eisenmann reveals his findings: six distinct patterns that account for the vast majority of startup failures. • **Bad Bedfellows.** Startup success is thought to rest largely on the founder's talents and instincts. But the wrong team,

investors, or partners can sink a venture just as quickly. • **False Starts.** In following the oft-cited advice to "fail fast" and to "launch before you're ready," founders risk wasting time and capital on the wrong solutions. • **False Promises.** Success with early adopters can be misleading and give founders unwarranted confidence to expand. • **Speed Traps.** Despite the pressure to "get big fast," hypergrowth can spell disaster for even the most promising ventures. • **Help Wanted.** Rapidly scaling startups need lots of capital and talent, but they can make mistakes that leave them suddenly in short supply of both. • **Cascading Miracles.** Silicon Valley exhorts entrepreneurs to dream big. But the bigger the vision, the more things that can go wrong. Drawing on fascinating stories of ventures that failed to fulfill their early promise—from a home-furnishings retailer to a concierge dog-walking service, from a dating app to the inventor of a sophisticated social robot, from a fashion brand to a startup deploying a vast network of charging stations for electric vehicles—Eisenmann offers frameworks for detecting when a venture is vulnerable to these patterns, along with a wealth of strategies and tactics for avoiding them. A must-read for founders at any stage of their entrepreneurial journey, *Why Startups Fail* is not merely a guide to preventing failure but also a roadmap charting the path to startup success.

A practical guide to opportunity assessment methods - Peter Liao

2008-02-28

Based on the authors' experience, a gap is apparent between technology managers' needs and opportunity assessment resources. Many organizations need a tool for evaluating seed funding or small business investment opportunities, but they lack a means for determining what options are available. This research report describes several opportunity assessment methods and matches the methods to user types in public and private sector organizations in analyzing technical, business, and market information for investment and commercialization decisions. Organizations that may benefit from this review share a common goal of seeking to strengthen the viability of a new technology venture or capitalizing on their investment in new technology. These include venture capitalists who choose investments (in early-stage technology companies) that will return the largest return on investment for their client investors, angel investors placing their own money in pet projects, public or quasi-public new or small business-funding agencies, and academic and government research and development agencies. The authors' focus was to evaluate not only the availability of methods but also the associated analysis framework in order to understand which opportunity assessment methods are optimal in supporting various investment objectives and stakeholders. This report should also provide individuals in the technology

transfer and commercialization community with a succinct, useful reference for identifying what methods are available to them and which methods work best in various situations.

Innovating World-Class Technology-Oriented Higher Education in China - Eryong Xue 2020-01-21

This book examines how to create world-class, technology-oriented innovation in higher education in China. It also proposes a model in response to the demand for promoting scientific and technological advances and technological innovation in the Chinese higher education system. Moreover, the book explores key concepts, pathways, models, policies, practices, trends and implications, and offers insights into fostering innovation in higher education. Lastly, it discusses how public policy theories can be applied to promote university technology transfer in order to create world-class universities in today's China.

Technology Roadmapping - Tugrul Unsal Daim 2018

New Waves in Innovation Management Research (ISPIM Insights) - Marcus Tynnhammar 2019-02-02

Launched in 2011 to recognize the prolific contribution that PhD dissertations make to the field of Innovation Management, the ISPIM Dissertation Award selects three winners from the possible 100+ entries

every year. Aided in the selection process by the generous support of Innovation Leaders, the ISPIM presents the awards at their annual Innovation Conference. With only three finalists being selected each year, many excellent submissions do not receive the recognition they deserve. To rectify this, the 2018 ISPIM Dissertation Award cast its spotlight beyond the top three dissertations and onto a much greater number of entries. Compiling the top 28 submissions received this year, 'New Waves in Innovation Management Research' is organized into six thematic sections that cover areas such as investments, collaboration, and creativity. Presenting a broad range of case studies and data from across global, this edited volume illustrates the breadth of research potential in the coming wave of innovation management. This book will be of interest to students, researchers and professional managers, alike, who are interested in or actively involved in the latest research on innovation management.

Future-Oriented Technology Analysis - Cristiano Cagnin 2008-07-29

The application of foresight to address the challenges of uncertainty and rapid change has grown dramatically in the past decade. In that period, the techniques have been greatly refined and the scope has been broadened to encompass future-oriented technology analysis (FTA) and more recently, the concept and practice of strategic intelligence. FTA addresses directly the longer-term future through the active and

continuous development of visions, and pathways to realise these visions. It is increasingly seen as a valuable management and policy tool complementing, and extending further into the future, classical strategy, planning, and decision-making approaches. This book charts the development of FTA and provides the first coherent description and analysis of its practical application and impact in the worlds of business, government, education and research in both advanced and developing countries. It draws on papers addressing the application of FTA around the globe which were presented at the Second International Seville Seminar in September 2006. The insights and practical experience will be invaluable for company managers, government ministers and officials, researchers and academics with responsibilities for effective planning and decision-making in an increasingly turbulent and unpredictable world.

Technology Roadmapping for Strategy and Innovation - Martin Moehrle
2013-01-17

Technology roadmapping is a significant method to help companies gain orientation concerning future challenges. This work contains a description of technology roadmapping in four major parts, providing expert knowledge on framing/embedding of technology roadmapping, processes of technology roadmapping, implementing technology roadmapping and linking technology roadmapping to other instruments of strategic planning.

The book provides a comprehensive survey of technology roadmapping since it contains papers by leading European, American and Asian experts, provides orientation regarding different methods of technology roadmapping and their interconnections, supplies readers with a compilation of the most important submethods, and embeds and links technology roadmapping in the framework of management research. This book aims at becoming the leading compendium on technology roadmapping.

Planning Algorithms - Steven M. LaValle 2006-05-29

Planning algorithms are impacting technical disciplines and industries around the world, including robotics, computer-aided design, manufacturing, computer graphics, aerospace applications, drug design, and protein folding. This coherent and comprehensive book unifies material from several sources, including robotics, control theory, artificial intelligence, and algorithms. The treatment is centered on robot motion planning, but integrates material on planning in discrete spaces. A major part of the book is devoted to planning under uncertainty, including decision theory, Markov decision processes, and information spaces, which are the 'configuration spaces' of all sensor-based planning problems. The last part of the book delves into planning under differential constraints that arise when automating the motions of virtually any

mechanical system. This text and reference is intended for students, engineers, and researchers in robotics, artificial intelligence, and control theory as well as computer graphics, algorithms, and computational biology.

Industry 4.0: Managing The Digital Transformation - Alp Ustundag

2017-09-14

This book provides a comprehensive guide to Industry 4.0 applications, not only introducing implementation aspects but also proposing a conceptual framework with respect to the design principles. In addition, it discusses the effects of Industry 4.0, which are reflected in new business models and workforce transformation. The book then examines the key technological advances that form the pillars of Industry 4.0 and explores their potential technical and economic benefits using examples of real-world applications. The changing dynamics of global production, such as more complex and automated processes, high-level competitiveness and emerging technologies, have paved the way for a new generation of goods, products and services. Moreover, manufacturers are increasingly realizing the value of the data that their processes and products generate. Such trends are transforming manufacturing industry to the next generation, namely Industry 4.0, which is based on the integration of information and communication technologies and industrial technology. The book provides a

conceptual framework and roadmap for decision-makers for this transformation

The Business Plan - Gerald Schwetje 2007-08-24

This book provides the essentials to write a successful business plan. The represented methods and best practices have been approved over many years in practice with many management consulting engagements. The

book is beautifully structured, it has a pragmatic emphasis and an autodidactic approach. The reader gets acquainted with the skills and competencies as well as tools, required for the planning and development of the business plan project.

Roadmapping for Strategy and Innovation - Rob Phaal 2010