
Technological Forecasting A Strategic Imperative

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Climate Protection and Development
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Understanding the Strategic Process IGI Global

The proliferation of entrepreneurship, technological and business innovations, emerging social trends and lifestyles, employment patterns, and other developments in the global context involve creative destruction that transcends geographic and political boundaries and economic sectors and industries. This creates a need for an interdisciplinary exploration of disruptive technologies, their impacts, and their implications for various stakeholders widely ranging from government agencies to major corporations to consumer groups and individuals. *Disruptive Technologies for Business Development and Strategic Advantage* is a critical scholarly resource that explores innovation, imitation, and creative destruction as critical factors and agents of socio-economic growth and progress in the context of emerging challenges and opportunities for business development and strategic advantage. Featuring coverage on a broad range of topics such as predictive value, business strategy, and sustainability, this book is geared towards entrepreneurs, business executives, business professionals, academicians, and researchers interested in strategic decision making using innovations and competitiveness.

Instilling Digital Competencies Through Educational Robotics IGI Global

Technological innovations are key causal agents of surprise and disruption. In the recent past, the United States military has encountered unexpected challenges in the battlefield due in part to the adversary's incorporation of technologies not traditionally associated with weaponry. Recognizing the need to broaden the scope of current technology forecasting efforts, the Office of the Director, Defense Research and Engineering (DDR&E) and the Defense Intelligence Agency (DIA) tasked the Committee for Forecasting Future Disruptive Technologies with providing guidance and insight on how to build a persistent forecasting system to predict, analyze, and reduce the impact of the most dramatically disruptive technologies. The first of two reports, this volume analyzes existing forecasting methods and processes. It then outlines the necessary characteristics of a comprehensive forecasting system that integrates data from diverse sources to identify potentially game-changing technological innovations and facilitates informed decision making by policymakers. The committee's goal was to help the reader understand current forecasting methodologies, the nature of disruptive technologies and the characteristics of a persistent forecasting system for disruptive technology. *Persistent Forecasting of Disruptive Technologies* is a useful text for the Department of Defense, Homeland Security, the Intelligence community and other defense agencies across the nation.

Configuring search and select processes to avoid disruption Springer

This research anthology explores the concept of food production and supply, from farm gate to plate, bringing together contemporary thinking and research on local, national, and global issues from a stakeholder perspective. *A Stakeholder Approach to Managing Food* includes a number of sections to represent these challenges, opportunities, conflicts, and cohesions affecting relevant

stakeholder groups within food production and supply and their reaction to, engagement with, and co-creation of the food environment. For some, local, national, and global interests may seem at odds. We are in an era of growing and pervasive multi-national corporations, and these corporations have significant influence at all levels. Rapidly growing economies such as China are a focus for the global brand, but is this a scenario of adaptation or homogenization of food? Alongside this trend toward national and global development in food, this volume presents the counter-reaction that is taking place (especially in developed countries) toward local speciality and culturally bound foods, with emphasis on the importance of the inter-connection of local communities and agri-food culture and economy. With an in-depth analysis of agricultural businesses, this book shows that the entrepreneurial spirit is alive and well in rural communities with often renewed and engaged connection with consumers and imaginative use of new media. This book will be of interest to students, researchers and policy-makers concerned with agriculture, food production and economics, cultural studies.

Vikas Publishing House

Real-world strategic management practice in an interactive micro-case format *The Strategy Pathfinder* presents an innovative, dynamic guide to strategic thinking and practice. Using real-world case examples from companies like Apple, the BBC, Hyundai, LEGO, McDonalds, Nike and SpaceX to illustrate critical concepts, this book enables readers to actively participate in real-world strategy dilemmas and create their own solutions. *Strategy Pathfinder's* 'live' micro-cases provoke discussion about business models, value creation, new ventures and more, while its complimentary instructional content introduces you to the best 'classic' and new tools of strategic management. Rather than passively reproducing past and current ideas, *Strategy Pathfinder* encourages strategic thinkers to learn by doing. The book is designed to help the reader to develop a clear understanding of key concepts while shifting your thought processes towards real strategic action and innovation by enabling you to: Use strategy theories and frameworks to engage in analytical and creative discussions about key strategic issues facing real companies today Form strategic views for yourself, and test them against the views of others Effectively make and communicate recommendations based on solid strategic analysis that stand up to scrutiny from multiple stakeholders Become an active producer of new strategic ideas rather than a passive receiver of past wisdom This third edition has been updated with new chapters and cases to reflect the latest, cutting-edge issues in strategic thinking and practice. And the updated companion website offers students, instructors and managers more resources to facilitate understanding, interaction and innovation. As an active learning experience, *The Strategy Pathfinder 3rd Edition* engages the reader in the work of strategy practitioners. By arming you with the empirical research you need, and the best strategic management theories and frameworks to better analyse situations you're likely to encounter or already facing in your career, *The Strategy Pathfinder* teaches you how to improve your strategic thinking and practice, and develop your own strategic pathways for the future.

The Bright and Dark Sides of Innovative Firms IGI Global

"This publication intend to provide some points for reflection and a first practical guidance for all

those who are directly involved in the creation of new learning solutions, aimed at transferring value to citizens and workers of tomorrow"--

Towards Better Models IGI Global

"This comprehensive reference work provides immediate, fingertip access to state-of-the-art technology in nearly 700 self-contained articles written by over 900 international authorities. Each article in the Encyclopedia features current developments and trends in computers, software, vendors, and applications...extensive bibliographies of leading figures in the field, such as Samuel Alexander, John von Neumann, and Norbert Wiener...and in-depth analysis of future directions."

A Comprehensive Guide for Public, Private, and Not-for-Profit Board Members Burnham Incorporated Pub

If you are not already in a management position, chances are you soon will be. According to the Bureau of Statistics, the fastest growing areas of employment for engineers are in engineering/science management. With over 200 contributing authors, *The Technology Management Handbook* informs and assists the more than 1.5 million engineering managers in the practice of technical management. Written from the technical manager's perspective and written for technologists who are managers, *The Technology Management Handbook* presents in-depth information on the science and practice of management. Its comprehensive coverage encompasses the field of technology management, offering information on: Entrepreneurship Innovations Economics Marketing Product Development Manufacturing Finance Accounting Project Management Human Resources International Business

Volume 31 - Supplement 16: Artistic Computer Graphics to Strategic Information Systems Planning Nova Publishers

Technologies such as renewable energy alternatives including wind, solar and biomass, storage technologies and electric engines are creating a different landscape for the electricity industry. Using sources and ideas from technologies such as renewable energy alternatives, *Research and Technology Management in the Electricity Industry* explores a different landscape for this industry and applies it to the electric industry supported by real industry cases. Divided into three sections, *Research and Technology Management in the Electricity Industry* introduces a range of methods and tools including technology assessment, forecasting, roadmapping, research and development portfolio management and technology transfer. These tools are applied to emerging technologies in this industry with case studies including data from various organizations including Bonneville Power Administration and Energy Trust of Oregon, from sectors including lighting and wind energy. The final section considers innovation through these technologies. A product result of a collaboration between Bonneville Power Administration and Portland State University, *Research and Technology Management in the Electricity Industry* is a comprehensive collection of methods, tools, examples and pathways for future innovation in the electricity industry.

Research Anthology on Digital Transformation, Organizational Change, and the Impact of Remote Work Springer

"Technological Learning will be great interest to a wide-ranging audience, including science and technology academics, scholars and policy makers in developing countries, telecommunications managers and executive, and organisational management scholars focusing on developing country

issues."--BOOK JACKET.

Business Chemistry Bloomsbury Publishing

This book serves as an international forum focusing on the transfer of technology and the exchange of ideas that are informative and enhances the practice of technology transfer to developing and newly industrialised countries. In particular the focus is on practitioners' views, management practices and strategies toward technology transfer and evaluation of their outcomes. The internal organisation and external environment that affects these practices and strategies including public policy developments, regulatory and legal issues, and development of global trends are also discussed by the experts in the field in different forms and at different levels.

Strategic Leadership NBR

This book spells out what can and should be done to avert the real risks of disaster. It is not a story of complacent congratulation for "win-win" initiatives and "green" consumer choices. It summons us to an endeavour worthy of the resources and ingenuity of the twenty-first century.

Vigilant Innovation World Bank Publications

This is a concise, thematic strategy text which will help students to see organizations from the perspective of the Chief Executive and to understand and debate the challenges, opportunities and issues which constitute the role of the CEO.

The Handbook of Board Governance CRC Press

After a half century of transformative economic progress that moved hundreds of millions of people out of poverty, countries in developing East Asia are facing an array of challenges to their future development. Slowed productivity growth, increased fragility of the global trading system, and rapid changes in technology are all threatening export-oriented, labor-intensive manufacturing—the region's engine of growth. Significant global challenges—such as climate change and the COVID-19 pandemic—are exacerbating economic vulnerability. These developments raise questions about whether the region's past model of development can continue to deliver rapid growth and poverty reduction. Against this background, *The Innovation Imperative in Developing East Asia* aims to deepen understanding of the role of innovation in future development. The report examines the state of innovation in the region and analyzes the main constraints that firms and countries face to innovating. It assesses current policies and institutions, and lays out an agenda for action to spur more innovation-led growth. A key finding of the report is that countries' current innovation policies are not aligned with their capabilities and needs. Policies need to strengthen the capacity of firms to innovate and support technological diffusion rather than just invention. Policy makers also need to eliminate policy biases against innovation in services, a sector that is growing in economic importance. Moreover, countries need to strengthen key complementary factors for innovation, including firms' managerial quality, workers' skills, and finance for innovation. Countries in developing East Asia would also do well to deepen their tradition of international openness, which could foster openness in other parts of the world. Doing so would help sustain the flows of ideas, trade, investment, and people that facilitate the creation and diffusion of knowledge for innovation.

Collaborative Networks of Cognitive Systems Edward Elgar Publishing

As the use of remote work has recently skyrocketed, digital transformation within the workplace has gone under a microscope, and it has become abundantly clear that the incorporation of new

technologies in the workplace is the future of business. These technologies keep businesses up to date with their capabilities to perform remote work and make processes more efficient and effective than ever before. In understanding digital transformation in the workplace there needs to be advanced research on technology, organizational change, and the impacts of remote work on the business, the employees, and day-to-day work practices. This advancement to a digital work culture and remote work is rapidly undergoing major advancements, and research is needed to keep up with both the positives and negatives to this transformation. The Research Anthology on Digital Transformation, Organizational Change, and the Impact of Remote Work contains hand-selected, previously published research that explores the impacts of remote work on business workplaces while also focusing on digital transformation for improving the efficiency of work. While highlighting work technologies, digital practices, business management, organizational change, and the effects of remote work on employees, this book is an all-encompassing research work intended for managers, business owners, IT specialists, executives, practitioners, stakeholders, researchers, academicians, and students interested in how digital transformation and remote work is affecting workplaces.

Commercialization and Transfer of Technology World Scientific

This book showcases new research in sport business management around the world, offering a platform for the international exchange of ideas, best practices, and scientific inquiries in a globalized sport economy. Featuring work from leading sport management scholars from around the world – including North America, South America, Europe, Africa, and Asia – the book addresses a variety of global, regional, national, and community issues that are central to successful sport management. Combining both qualitative and quantitative studies, it explores key themes such as the emergent environment, managing change, organizational transformation, application of technology, marketing and promotion, and research protocols. New case studies cover topics such as entrepreneurship and innovation, sport broadcasting, digital technologies, youth and college sports, and the development of the sport management curriculum. *International Sport Business Management* is a fascinating reading for all students and scholars of sport management, sport business, and sport marketing, as well as for any professional working in the sport and leisure industries.

The Strategy Pathfinder Routledge

This book constitutes the refereed proceedings of the 19th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2018, held in Cardiff, UK, in September 2018. The 57 revised full papers were carefully reviewed and selected from 143 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications, with a strong focus on the following areas: blockchain in collaborative networks, industry transformation and innovation, semantics in networks of cognitive systems, cognitive systems for resilience management, collaborative energy services in smart cities, cognitive systems in agribusiness, building information modeling, industry 4.0 support frameworks, health and social welfare services, risk, privacy and security, collaboration platform issues, sensing, smart and sustainable enterprises, information systems integration, dynamic logistics networks, collaborative business processes, value creation in networks, users and organizations profiling, and

collaborative business strategies.

The Innovation Imperative for Developing East Asia IGI Global

Human migration to space will be the most profound catalyst for evolution in the history of humankind, yet this has had little impact on determining our strategies for this next phase of exploration. Habitation in space will require extensive technological interfaces between humans and their alien surroundings and how they are deployed will critically inform the processes of adaptation. As humans begin to spend longer durations in space—eventually establishing permanent outposts on other planets—the scope of technological design considerations must expand beyond the meager requirements for survival to include issues not only of comfort and well-being, but also of engagement and negotiation with the new planetary environment that will be crucial to our longevity beyond Earth. Approaching this question from an interdisciplinary approach, this dissertation explores how the impact of interior space architecture can meet both the physical and psychological needs of future space colonists and set the stage for humankind to thrive and grow while setting down new roots beyond Earth.

Cognitive Technology for AI Business Analytics Springer Science & Business Media

In *Strategic Asia 2012-13: China's Military Challenge*, leading experts assess and forecast the impact of China's growing military capabilities. What are China's strategic aims? What are the challenges and opportunities facing the United States? How is the region responding to China's military power and to the U.S. policy of "strategic rebalancing"?

Encyclopedia of Computer Science and Technology IGI Global

Focusing on the cutting-edge applications of AI cognitive computing from neuromorphic to quantum cognition as applied to AI business analytics, this new volume explores AI's importance in managing cognitive processes along with ontological modeling concepts for venturing into new business frontiers. The volume presents a selection of significant new accomplishments in the areas of AI cognitive computing ranging from neurocognition perception and decision-making in the human brain—combining neurocognitive techniques and effective computing—to basic facial recognition computing models. Topics include: Agent neurocomputing techniques for facial expression recognition Computing haptic motion and ontology epistemic Characterizations of morph schemas for visual analytics Learning and perceptive computing Functional and structural neuroimaging modeling Observed links between facial recognition and affective emotional processes Interaction of cognitive and emotional processes during social decision-making Neurocognitive processing of emotional facial expressions in individuals Neurocognitive affective system for emotive robot androids Virtual reality-based affect adaptive neuromorphic computing Executive surveys indicate that cognitive adoption is very important in business strategy for success and to remain competitive. Employing cognitive-based processes provides the way to get the right information in the right hands at the right time, which is the key to winning in the digital era and to driving business value that emphasizes competitive differentiation. Several chapters of the volume address the goal of using cognitive technology to improve search capabilities, to provide personalized customer service in business and in health and wellness, and to create better workflow management. Key features: Looks at the newest frontiers on very popular AI and analytics topics Discusses new techniques for visual analytics and data filtering Shows how AI and cognitive science merges with quantum

neurocognitive computing Presents ontology models with ontology preservation data filtering techniques Provides a cross-transposition on AI and digitizations for business model innovations Artificial Intelligence and Computing Logic: Cognitive Technology for AI Business Analytics is a valuable resource that informs businesses and other enterprises the value of artificial intelligence

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and computing logic applications.

[Strategic Asia 2012-13: China's Military Challenge](#) CRC Press

Emerging Trends in the Development and Application of Composite Indicators IGI Global