

Disruptive Technology And Defence Innovation Ecos

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Altering Frontiers Corinne Grenier 2021-07-21 How can healthcare systems be transformed by reimagining their multiple silos to favor processes and practices that are more responsive to local, horizontal initiatives? Altering Frontiers analyzes numerous experiences, using a multidisciplinary approach, paying attention to certain actors, collectives and organizational arrangements. Through this work, levers are identified that promote lasting transformation: recognizing the legitimacy of the practices of many who are often "invisible"; trusting those who know their intervention territory; investing in methodological support; taking advantage of tools and procedures such as instruments for strategic and managerial discussion; and developing the capacity to absorb innovative ideas and experiences that circulate within the environment.

Science Fiction and Innovation Design Thomas Michaud 2020-10-22

Disruptive Technologies and Eco-Innovation for Sustainable Development Akkucuk, Ulas 2021-09-10 The rise of technology in human culture has changed almost every facet of society. Technology is especially useful regarding sustainable development. These technologies can cause significant greenhouse gas reductions and other benefits in terms of logistics and smart cities. New technology applied in this way can greatly help the human effort to restore the environment. Disruptive Technologies and Eco-Innovation for Sustainable Development provides an in-depth look into the new techniques, strategies, and technologies for achieving environmental sustainability through best business and technology practices. The book covers topics such as eco-innovation, green criteria, Agriculture 4.0, and topics related to logic, philosophy, and history of science and technology from the green/sustainable point of view. It is essential for managers, academicians, scientists, students, and researchers in various government, public, and private sectors.

Emotions and Values in Equity Crowdfunding Investment Choices 1 Christian Goglin 2021-02-17 Equity crowdfunding is a new way for seed stage start-ups to generate initial capital and, as such, raises questions around the choices made by investors within this area. Understanding it is important for investor protection, as investors are generally unaware of the factors that can influence their decisions. However, investing in equity crowdfunding places

the investor in a unique decision-making framework, in which resources such as images, videos and storytelling are all mobilized by entrepreneurs and platforms as tools of persuasion. This context thus seems to favor more holistic and emotional decision-making, rather than a process that is rational and analytical. This first volume centers on the emotional and axiological determinants of choice. A transdisciplinary theoretical analysis is carried out, combining different fields within the social sciences, primarily finance, marketing and psychology. This state of the art leads to the emergence of an original theoretical framework for understanding investment choices in equity crowdfunding.

Digital Transformations in the Challenge of Activity and Work Marc-Eric Bobillier Chaumon 2021-01-06 TECHNOLOGICAL CHANGES AND HUMAN RESOURCES SET Coordinated by Patrick Gilbert The accelerating pace of technological change (AI, cobots, immersive reality, connected objects, etc.) calls for a profound reexamination of how we conduct business. This requires new ways of thinking, acting, organizing and collaborating in our work. Faced with these challenges, the Human and Social Sciences have a leading role to play, alongside others, in designing, supporting and implementing these digital transformation projects. Their ambition is to participate in the development of innovative and empowering devices, that is to say, systems that are truly at the service of human beings and their activity, that empower these professionals to take action and that also provide occupational health services. This book takes a multidisciplinary look at the challenges of these digital transformations, making use of occupational psychology, ergonomics, sociology of uses, and management sciences. This viewpoint also helps provide epistemological, methodological and empirical insights to better understand and support the changes at work.

Managing Knowledge, Governing Society Alain-Marc Rieu 2021-11-30 Since the 1980s, two different paradigms have reshaped industrial societies: the Neoliberal paradigm and a Research and Innovation paradigm. Both have been conceptualized and translated into strong policies with massive economic and social consequences. They provide divergent responses to the environmental transition. The Neoliberal paradigm is based on economic models and geopolitical solutions. The Research and Innovation paradigm's goal is to manage knowledge differently in order to reorient the evolution of society. Since the mid-1990s, a version of the Research and Innovation paradigm has led to the design of large-scale research and innovation policies. This book examines how these policies have evolved and how they can be extended and reformed to respond to present and future environmental constraints. It studies the mutation of the conception, organization and role of science and technology in the evolution of industrial societies and explores the future of these developments. The book offers three unique lines of enquiry. The first is to focus not specifically on economics, sociology, political science or history, but on knowledge creation from an institutional and reflexive point of view. The second is to establish a convergence between the British school of science and technology studies and the research trends opened by the work of Michel Foucault. Both introduced trans-disciplinary and policy-oriented research associating case studies, long-term perspectives and theory. The third is to consider climate change as the overwhelming challenge of our time. The book is an insightful guide for students, scholars and researchers across the humanities and social sciences, including philosophy, political science, law, economics, business and media.

Comparing Defense Innovation Around the World Tai Ming Cheung 2022-09-29 Gaining a decisive technological edge is a never-ending pursuit for defense establishments and the

countries they protect. Intensifying geo-strategic and geo-economic rivalry among major powers, especially the U.S. and China, and the global technology revolution occurring in the civilian and military domains promise to reshape the nature and distribution of global power. This book examines the state of global defense innovation in a select number of countries chosen because they are representative of the diverse make-up of the global defense innovation community. These include small countries with advanced defense innovation capabilities (Israel and Singapore), closed authoritarian powers (North Korea and Russia), large catch-up states (China and India), and advanced large powers (U.S.). The chapters in this book were originally published as a special issue of the Journal of Strategic Studies.

Innovation for Society Marianne Chouteau 2020-11-03 In a context marked by unprecedented challenges (the struggle against inequalities, climate change, etc.), innovation appears to be the readymade universal scapegoat. Innovation for Society, however, suggests that we look at innovation differently, by inviting us to innovate with consciousness. To do this, the authors introduce an approach they call Penser le Sens de l'Innovation (P.S.I., or "thinking about the meaning of innovation"), comprising a set of tools largely from the humanities and social sciences (observation, cartography, creativity, storytelling, etc.) to lead us to this "meaning". By considering the question of "meaning" from the point of view of both direction and signification, the authors rehabilitate the eminently political question of knowing which innovations we choose for which societies.

Innovation in Sport Bastien Soule 2022-01-26 Whether in terms of practices, equipment or services, the sports sector is characterized by intense inventiveness and is an excellent subject to study innovation processes. This book provides a sociological reading of these processes, illustrated by case studies that allow us to grasp the complexity of innovation trajectories. The case studies highlight the astonishing pathways, from the origin of inventions to their effective dissemination and use, and including the bifurcations of projects. The "surprises" thus presented refer to an invariant of innovation processes, namely that trajectories are rarely linear and that the control exercised over them is relative. Innovation in Sport concludes with a set of recommendations for optimizing the management of sport innovation. This book is intended for students of sports science and management, as well as for professionals and entrepreneurs in the sports markets.

Data Analysis and Related Applications, Volume 1 Konstantinos N. Zafeiris 2022-11-01 The scientific field of data analysis is constantly expanding due to the rapid growth of the computer industry and the wide applicability of computational and algorithmic techniques, in conjunction with new advances in statistical, stochastic and analytic tools. There is a constant need for new, high-quality publications to cover the recent advances in all fields of science and engineering. This book is a collective work by a number of leading scientists, computer experts, analysts, engineers, mathematicians, probabilists and statisticians who have been working at the forefront of data analysis and related applications. The chapters of this collaborative work represent a cross-section of current concerns, developments and research interests in the above scientific areas. The collected material has been divided into appropriate sections to provide the reader with both theoretical and applied information on data analysis methods, models and techniques, along with related applications.

Innovation and National Security Adam Segal 2019-09-18 For the past three-quarters of a century, the United States has led the world in technological innovation and development. The

nation now risks falling behind its competitors, principally China. The United States needs to advance a national innovation strategy to ensure it remains the predominant power in a range of emerging technologies. Innovation and National Security: Keeping Our Edge outlines a strategy based on four pillars: restoring federal funding for research and development, attracting and educating a science and technology workforce, supporting technology adoption in the defense sector, and bolstering and scaling technology alliances and ecosystems. Failure could lead to a future in which rivals strengthen their militaries and threaten U.S. security interests, and new innovation centers replace the United States as the source of original ideas and inspiration for the world.

Emotions and Values in Equity Crowdfunding Investment Choices 2 Christian Goglin 2021-03-12 Equity crowdfunding is a new way for seed stage start-ups to generate initial capital and, as such, raises questions around the choices made by investors within this area. Understanding it is important for investor protection, as investors are generally unaware of the factors that can influence their decisions. However, investing in equity crowdfunding places the investor in a unique decision-making framework, in which resources such as images, videos and storytelling are all mobilized by entrepreneurs and platforms as tools of persuasion. This context thus seems to favor more holistic and emotional decision-making, rather than a process that is rational and analytical. Volume 1 presents a transdisciplinary theoretical analysis, combining different fields within the social sciences, primarily finance, marketing and psychology. In this second volume, an explanatory model is developed on the basis of this theoretical framework, which is then empirically tested using data from laboratory experiments. This book also proposes the original theory of "emotional matching", which is both justified and substantiated. It personalizes behavior and offers a new perspective based on project characteristics and investor preferences.

Systemic Innovation Dimitri Uzunidis 2020-11-03 INNOVATION IN ENGINEERING AND TECHNOLOGY SET Coordinated by Dimitri Uzunidis Systemic innovation is based on business networks and new business models in a global economy integrated by flows of knowledge, capital, and goods. The authors of this book consider the theory that innovations act as systems based on multi-actor interactions. Innovation is contextualized to demonstrate in what capacity a company or an entrepreneur can innovate. The book details the management of scientific, technical and cognitive resources, the relationships between R&D partners, the creativity and the rules that allow a market and a company to innovate. This contextualization, associated with entrepreneurial strategy, leads to systemic innovation. This book analyzes some key sectors of the economy that are knowledge-intensive and rapidly changing: transport and communications, defense, information technology, artificial intelligence, and the environment.

The Digital Revolution in Health Jerome Beranger 2021-07-07 What sort of health system do we want to implement in the face of the imminent arrival of artificial intelligence and robotics in medical practices? The Covid-19 health crisis has demonstrated the importance of digital technologies in the care of patients and their families, as imperative attention was called to ethics and relational practice. This book analyzes numerous sources of feedback to reveal the multiple facets of this so-called Medicine 4.0. It reveals the extent to which digital medicine requires new forms of organization and new approaches to co-conception, in a logic that is resolutely collaborative with patients. The book concludes with legal and ethical points of view in order to challenge the reader on their duty to truly be an "actor" of their health care.

Performance of Valuation Methods in Financial Transactions David Heller 2021-03-26 MODERN FINANCE, MANAGEMENT INNOVATION & ECONOMIC GROWTH SET Coordinated by Faten Ben Bouheni Financial operations depend on potential value creation, the nature of the shareholder base, the level of development of the company and its growth prospects. They result from different commercial and financial strategies that must integrate the interest of the capital holders, the influence and strategy of the group in the initiative and the structure of the offer. This book examines how, in practice, a company's capital is structured, taking into account the interests of various stakeholders. The performance of valuation methods, which serve investors in their decision-making and financial arrangements, is developed in detail. Depending on the contexts present in the control market, the methods of stock market and transactional comparables, discounted cash flows and the patrimonial approach, will be favored to assess the value of a company's shares. Performance of Valuation Methods in Financial Transactions is an in-depth analysis of equity transactions and is aimed at students and corporate finance professionals.

The DARPA Model for Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian 2020-01-09 The authors have done a masterful job of charting the important story of DARPA, one of the key catalysts of technological innovation in US recent history. By plotting the development, achievements and structure of the leading world agency of this kind, this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change, pandemics, cyber security and other global problems of our time. The DARPA Model provides a useful guide for governmental agency and policy leaders, and for anybody interested in the role of governments in technological innovation. —Dr. Kent Hughes, Woodrow Wilson International Center for Scholars This volume contains a remarkable collection of extremely insightful articles on the world's most successful advanced technology agency. Drafted by the leading US experts on DARPA, it provides a variety of perspectives that in turn benefit from being presented together in a comprehensive volume. It reviews DARPA's unique role in the U.S. innovation system, as well as the challenges DARPA and its clones face today. As the American model is being considered for adoption by a number of countries worldwide, this book makes a welcome and timely contribution to the policy dialogue on the role played by governments in stimulating technological innovation. — Prof. Charles Wessner, Georgetown University The U.S. Defense Advanced Research Projects Agency (DARPA) has played a remarkable role in the creation new transformative technologies, revolutionizing defense with drones and precision-guided munitions, and transforming civilian life with portable GPS receivers, voice-recognition software, self-driving cars, unmanned aerial vehicles, and, most famously, the ARPANET and its successor, the Internet. Other parts of the U.S. Government and some foreign governments have tried to apply the 'DARPA model' to help develop valuable new technologies. But how and why has DARPA succeeded? Which features of its operation and environment contribute to this success? And what lessons does its experience offer for other U.S. agencies and other governments that want to develop and demonstrate their own 'transformative technologies'? This book is a remarkable collection of leading academic research on DARPA from a wide range of perspectives, combining to chart an important story from the Agency's founding in the wake of Sputnik, to the current attempts to adapt it to use by other federal agencies. Informative and insightful, this guide is essential reading for political and policy leaders, as well as researchers and students interested in understanding the success of this agency and the lessons it offers to others.

Innovation and Export Manon Enjolras 2021-11-30 The concepts of innovation and export are traditionally considered in isolation, both within companies and within the support organizations dedicated to them. As a result, within this broad research field, very little academic work has focused on how to implement their relationship at an operational level. This book proposes a joint diagnostic tool for SMEs, highlighting good practices to be mastered in order to simultaneously improve innovation and export performance, in the form of a virtuous circle. Innovation and Export focuses on the integration of innovation and export into the strategic management of SMEs, for which the use of synergies is a powerful lever to overcome any difficulties in mobilizing significant resources.

Financial Information and Brand Value Yves-Alain Ach 2021-03-03 The brand is the company's most important asset. In their financial statements, companies are faced with a lack of accounting recognition for the brands they have created, and value recognition for the brands they have acquired. This book studies the nature, characteristics and determinants of brand information published in companies' annual and financial reports. It presents case studies on the methods of evaluating and developing brands, and analyzes annual reports published by listed companies, whose brands appear in international rankings. It reflects on the inadequacy of information and disclosed data to demonstrate the value of brands and the need to ensure that more reliable and relevant financial information is available to investors. Financial Information and Brand Value goes beyond the simple application of conceptual frameworks in order for the reader to master the practices related to brand valuation.

The Contributory Revolution Pierre Giorgini 2021-09-22 This book sheds light on a crucial debate on the possible role of the technosciences in meeting the challenges of the future. It shows that the current contributory revolution is global and profound, and that it concerns the whole epistemological field - from the sciences to social organizations. By delving into the epistemological dimension of the lightning transition we are currently experiencing, The Contributory Revolution identifies the levers of the salutary acceleration of collective learning, now essential, but not before the debate on a possible future has been settled via the headlong rush of the technoscientist. However, after this call to move from exo-distributive technoscience, carried by deterministic and Newtonian models, to more biological and endocontributory models - or even from the arrogance of mastery to the humility of influence and alliance - it will be necessary to set its limits to avoid entering into an eco-philosophical radicalism. Only extreme humility, carried by strong spirituality, can protect us from it.

Data Analysis and Related Applications, Volume 2 Konstantinos N. Zafeiris 2022-08-23 The scientific field of data analysis is constantly expanding due to the rapid growth of the computer industry and the wide applicability of computational and algorithmic techniques, in conjunction with new advances in statistical, stochastic and analytic tools. There is a constant need for new, high-quality publications to cover the recent advances in all fields of science and engineering. This book is a collective work by a number of leading scientists, computer experts, analysts, engineers, mathematicians, probabilists and statisticians who have been working at the forefront of data analysis and related applications. The chapters of this collaborative work represent a cross-section of current concerns, developments and research interests in the above scientific areas. The collected material has been divided into appropriate sections to provide the reader with both theoretical and applied information on data analysis methods, models and techniques, along with related applications.

Open Innovation Pascal Latouche 2020-10-29 The purpose of this book is to explicitly describe the daily interactions that need to be implemented to transform these One To One, or One to Many, interactions into tangible (business partnerships) and intangible (relationship satisfaction) value. Through my experience, I will try to give an account of the words and behaviour of the crossed protagonists during all these years. My observations will allow to fully understand the perspectives that everyone gives themselves in interactions, in order to better understand the perceptions that result from them. It is the reality of the interactions themselves that will be exposed in order to know how to make the most of them.

The Innovation Ecosystem as a Source of Value Creation Odile de Saint Julien 2022-08-23 Ecosystems have been present in the fields of economics and management for decades, and in recent years they have experienced rapid development. However, there is still no consensus on the definition of an innovation ecosystem. Using concrete examples, *The Innovation Ecosystem as a Source of Value Creation* proposes a unique model in order to refine the understanding, functions, advantages and disadvantages of innovation ecosystems. This model is based on both the iterative network and integrated value chain. The network supports the collaboration between actors and favors asset transfers articulated around the innovation process. This book highlights the transfer processes at work in the innovation ecosystem, as well as the roles of the actors in this integrated value chain. It presents how value creation is articulated around knowledge to generate value shared by all of the actors in the innovation ecosystem.

Data Control Jean-Louis Monino 2020-10-07 Businesses are becoming increasingly aware of the importance of data and information. As such, they are eager to develop ways to manage them, to enrich them and take advantage of them. Indeed, the recent explosion of a phenomenal amount of data, and the need to analyze it, brings to the forefront the well-known hierarchical model: Data, Information, Knowledge. Data? this new intangible manna ? is produced in real time. It arrives in a continuous stream and comes from a multitude of sources that are generally heterogeneous. This accumulation of data of all kinds is generating new activities designed to analyze these huge amounts of information. It is therefore necessary to adapt and try new approaches, methods, new knowledge and new ways of working. This leads to new properties and new issues as a logical reference must be created and implemented. At the company level, this mass of data is difficult to manage; interpreting it is the predominant challenge.

Corporate Innovation Strategies Nacer Gasmi 2020-12-31 Corporate social responsibility (CSR) is simply the maximization of a company's value over time, undertaken because, in the long run, social and environmental problems ultimately become financial problems. The justification for CSR is therefore associated with representing the nature and role of the company, as well as its purpose. Companies therefore regard CSR as a strategic investment that is part of a proactive, resilient, inclusive approach, based on the creation of shared value. This approach is capable of reducing negative societal impacts of their activities, or inducing positive impacts if they sustain a hybrid culture, all the while improving their competitive advantage. This book presents a theoretical development that analyzes the challenges of CSR strategies based on the creation of shared value. Two case studies are presented, analyzing the different forms of social innovation strategies capable of inducing this shared value creation.

Walking the Talk Charles O. Holliday Jr. 2002-08-16 Report by the World Business Council for Sustainable Development.

The Dilemmas of Wonderland Yakov Ben-Haim 2018-08-30 Innovations create both opportunities and dilemmas. They provide new and supposedly better opportunities, but — because of their newness — they are often more uncertain and potentially worse than existing options. Recent inventions and discoveries include new drugs, new energy sources, new foods, new manufacturing technologies, new toys and new pedagogical methods, new weapon systems, new home appliances and many other discoveries and inventions. Is it better to use or not to use a new and promising but unfamiliar and hence uncertain innovation? That dilemma faces just about everybody. The paradigm of the innovation dilemma characterizes many situations, even when a new technology is not actually involved. The dilemma arises from new attitudes, like individual responsibility for the global environment, or new social conceptions, like global allegiance and self-identity transcending nation-states. These dilemmas have far-reaching implications for individuals, organizations, and society at large as they make decisions in the age of innovation. The uncritical belief in outcome-optimization — "more is better, so most is best" — pervades decision-making in all domains, but is often irresponsible when facing the uncertainties of innovation. There is a great need for practical conceptual tools for understanding and managing the dilemmas of innovation. This book offers a new direction for a wide audience. It discusses examples from many fields, including e-reading, bipolar disorder and pregnancy, disruptive technology in industry, stock markets, agricultural productivity and world hunger, military hardware, military intelligence, biological conservation, on-line learning, and more.

Dual Innovation Systems Francois-Xavier Meunier 2021-02-17 Technical superiority is one of the keys to military domination. Thus, defense industries have supported the development of increasingly efficient systems and made significant contributions to technical progress. However, since the late 1980s, defense industries technological initiative has been questioned and new sources of innovation have been sought by turning to the civilian sphere. A duality was born from this marriage of defense and civil innovation which developed their synergies in order to improve the innovation process in both areas. Dual Innovation Systems uses a systemic approach to investigate this dual approach to innovation and how it promotes improvements in the research and development processes of the defense and civilian areas. It also presents a variety of tools for measuring the performance of a dual innovation system.

Productive Economy, Contributory Economy Genevieve Bouche 2022-06-08 The increasing urgency of environmental issues necessitates the rethinking of our societal model. This book explores this assertion by going back in time and pinpointing the turning points in the evolution of European society that we are currently experiencing. Productive Economy, Contributory Economy presents an analysis of the factors affecting the evolution of our societal model, emerging from sedentarism, which culminated in the industrial age. To further this evolution, we must allow the common good to prosper: family, knowledge, innovation, democracy and spirituality. This book presents a dual contributory and productive economy to be put into place, as well as the synergy that can be established between these two spaces of human contribution. It also studies the instruments of governance that we will need, such as smart money, as well as the conditions of their success.

Innovation Economics, Engineering and Management Handbook 1 Dimitri Uzunidis

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2021-06-08 Innovation, in economic activity, in managerial concepts and in engineering design, results from creative activities, entrepreneurial strategies and the business climate. Innovation leads to technological, organizational and commercial changes, due to the relationships between enterprises, public institutions and civil society organizations. These innovation networks create new knowledge and contribute to the dissemination of new socio-economic and technological models, through new production and marketing methods. Innovation Economics, Engineering and Management Handbook 1 is the first of the two volumes that comprise this book. The main objectives across both volumes are to study the innovation processes in today's information and knowledge society; to analyze how links between research and business have intensified; and to discuss the methods by which innovation emerges and is managed by firms, not only from a local perspective but also a global one. The studies presented in these two volumes contribute toward an understanding of the systemic nature of innovations and enable reflection on their potential applications, in order to think about the meaning of growth and prosperity.

Innovation in Clusters Estelle Vallier 2021-12-29 Forged at the heart of international political bodies by expert researchers, the innovation cluster concept has been incorporated into most public policies in industrialized countries. Based largely on the ideas behind the success of Silicon Valley, several imitative attempts have been made to geographically group laboratories, companies and training in particular fields in order to generate "synergies" between science and industry. In its first part, Innovation in Clusters analyzes the infatuation with the system of clusters that is integral to innovative policies by analyzing its socio-historical context, its revival in management and its worldwide expansion, looking at a French example at a local level. In its second part, the book explores a specialized biotechnology cluster dating back to the end of the 1990s. The sociological survey conducted twenty years later sheds a different light on the dynamics and relationships between laboratories and companies, contradicting the commonly held belief that innovation is made possible by geographical proximity.

Entrepreneurship and Innovation Education Marcos Lima 2021-03-03 This book is a compilation of tools, techniques and frameworks for use in the field of entrepreneurship and innovation (E&I) education. Developed and honed over the past two decades, these teaching approaches are combined with well-versed practical insight. As professors know all too well, the human brain cannot articulate more than three or four dimensions of a problem without the aid of what could be referred to as checklists for thinking: frameworks (visual or otherwise) that help students think in terms of multiple variables affecting a problem. Entrepreneurship and Innovation Education provides a toolbox of more than 50 frameworks for analyzing entrepreneurship and innovation problems, and for enabling effective decision-making. It is a useful guide for professors and students alike who are looking for an overview of available tools, methods and approaches to actively learn how to go from the visionary idea to the market.

Employability and Industrial Mutations Florent Noel 2022-03-02 Industrial, economic and organizational mutations are creating a transformation in employment, skills and work. Developing the employability of the workforce is one response to these challenges. However, the link between mutations and employability is not obvious: it must be constructed and implemented in order to ensure that employees are able to reach satisfying professional situations. Employability and Industrial Mutations presents a definition of employability and

the associated challenges for public authorities, organizations and employees: managing unemployment, successful change and employee empowerment. It then examines several worker profiles to better understand what “being employable” means. It goes on to analyze several examples of management systems for employability at different stages of an individual’s career, and finally explores the issue of developing or maintaining employability in real-life situations and contexts. This book brings together researchers and practitioners from a range of different fields in order to shed light on the complex relationship between mutations and employability.

The Global Race for Technological Superiority Fabio Rugge 2019-12-09 This report published by ISPI and the Brookings Institution analyzes the challenges to international order posed by the ongoing race for technological superiority. From artificial intelligence and quantum computing to hypersonic weapons and new forms of cyber and electronic warfare, advances in technology have threatened to make the international security environment more unpredictable and volatile – yet the international community remains unprepared to assess and manage that risk. What is needed is a mature understanding of how technology has emerged as a key enabler of sovereignty in the XXI century, how the ongoing race for technological supremacy is disrupting the balance of power globally, and what the attendant strategic and security implications of those transformations will be. This report is an effort to that end.

Sustainable Production System Clément Morlat 2020-04-09 Wealth is no longer just an ability to live well in a world shaped by human activities. It is also an ability to push back or defer the limits of a world in biological and climatic closure. This book examines the theoretical conflicts and the power plays which often oppose the socio-political and technical-financial practices of recognition of what intervenes in the production of this wealth – i.e. of what has value. It lays down the principles of a contributory modeling method, allowing debates around the concept of development; the building of scenarios; the negotiation of their implementation; and a cross-sectoral reading of their social, ecological and economic costs. This method, called Dynamic Modeling of Cost Systems, is based on a territorial communication device which articulates political, contractual and accounting innovations using deliberative and normative digital tools. It combines different local representations of value, in order to approach wealth through an integrated analysis of micro-, meso- and macro-issues.

Circular Economy Karen Delchet-Cochet 2020-09-10

Sustainable Management for Managers and Engineers Carolina Machado 2020-12-11 In a competitive and complex world, where requirements from different fields are ever-growing, organizations need to be responsible for their actions in their respective markets. However, this responsibility must not be deemed one-time-only but instead should be seen as a continuous process, under which organizations ought to effectively use the different resources to allow them to meet the present and future requirements of their stakeholders. Having a significant influence on their collaborators’ performance, the role developed by managers and engineers is highly relevant to the sustainability of an organization’s success. Conscious of this reality, this book contributes to the exchange of experiences and perspectives on the state of research related to sustainable management. Particular focus is given to the role that needs to be developed by managers and engineers, as well as to the future direction of this

field of research.

Valuation of the Liability Structure by Real Options David Heller 2022-06-22 The valuation of the liability structure can be determined by real options because the shares of a company can be regarded as similar to the purchase of a financial call option. Therefore, from this perspective, debt can be viewed as the sale of a financial put option. As a result, financial analysts are able to establish different valuations of a company, according to these two financing methods. Valuation of the Liability Structure by Real Options explains how the real options method works in conjunction with traditional methods. This innovative approach is particularly suited to the valuation of companies in industries where an underlying asset has high volatility (such as the mining or oil industries) or where research and development costs are high (for example, the pharmaceutical industry). Integration of the economic value of net debt (rather than the accounting value) and integration of the asset volatility are the main advantages of this approach.

Handbook of Research on Driving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation Al-Hakim, Latif 2016-04-22 The global market is constantly evolving and it has become essential for organizations to employ new methods of appealing to customers in order to stay abreast on current trends within the world economy. The Handbook of Research on Driving Competitive Advantage through Sustainable, Lean, and Disruptive Innovation features theoretical development and empirical research in social media platforms, internet usage, big data analytics, and smart computing, as well as other areas of organizational innovation. Highlighting implementation challenges facing innovative processes, this publication is a critical reference source for researchers, students, professionals, managers, and decision makers interested in novel strategies being employed by organizations in an effort to improve their standings on the global market.

Entrepreneurship and Development Sonia Ben Slimane 2020-11-02 In analyzing the complex link between entrepreneurship, innovation and development in the context of the emerging world, this book offers a holistic reading of this triptych based on a theoretical foundation that is itself subject to controversy: the national system of innovative entrepreneurship. The “emerging” nature of the studied countries provides specific insights, and allows the theoretical developments to be fine-tuned to the current issues. In a context that makes competitive advantages transient, emerging markets can provide a real test case for responding in a structural and innovative way to social and economic challenges, thus ensuring the sustainable performance of their innovative entrepreneurial system. Entrepreneurship and Development advocates for the integration of the social and cultural history of a given country within the framework of public policies, and proposes more targeted actions for innovative entrepreneurial activities. Moreover, the education system must integrate the entrepreneurial culture and foster multidisciplinary to support the transfer of knowledge to markets.

Disruptive Technology: Concepts, Methodologies, Tools, and Applications

Management Association, Information Resources 2019-07-05 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 Technology: Concepts, Methodologies, Tools, and Applications* is a vital reference source that examines 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. Highlighting a range of topics such as IT innovation, business strategy, and sustainability, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, academicians, and researchers interested in strategic decision making using innovations and competitiveness.