

Third International Seville Conference on  
Future-Oriented Technology Analysis (FTA):  
*Impacts and implications for policy and decision-making*

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# **FUTURE-ORIENTED TECHNOLOGY ANALYSIS IN SECURITY AND SUSTAINABILITY: IMPACTS AND IMPLICATIONS ON DECISION-MAKING**

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# **FTA**

**Future oriented  
Technology  
Analysis**

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# Future Oriented Technology Analysis

**Lei Shi**



## **Future Oriented Technology Analysis:**

**Future-Oriented Technology Analysis** Cristiano Cagnin, Michael Keenan, Ron Johnston, Fabiana Scapolo, Rémi Barré, 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 (FTAI). 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.

*Future-oriented technology analysis*, 2009      **Futures Studies and Future-Oriented Technology Analysis Principles, Methodology and Research Questions** Rolf Kreibich, Britta Oertel, Michaela Wolk, 2014 Futures studies are the scientific study of possible, desirable and probable future developments and scope for design as well as the conditions for these in the past and in the present. Modern futures studies assume that the future is not entirely determinable and that different future developments are possible and there is scope for design. They are based on the realization that there are indeed a great number of possible futures but that these are not arbitrary. The term Future oriented Technology Analysis refers to potent changes and challenges for futures studies at the interface of technological change with increasingly science based innovation, attention to societal issues and concerns. Futures Studies and Future oriented Technology analysis are concerned with complex dynamic systems and processes and engage multiple stakeholders in participatory and interdisciplinary processes to assure distributed understanding and sustainable development. The article discusses principles and context of Futures studies and Futures analyses methodology. It puts forward five core research lines to outline Futures studies contribution to addressing issues in the research area of Internet Society.      *Future-oriented Technology Analysis* Luke Georghiou, Jennifer Cassingena Harper, Fabiana Scapolo, 2011      **Future-Oriented Technology Analysis** Cristiano Cagnin, 2015 This paper reflects on the potential of future oriented analysis (FTA) to address major change and to support decision makers and other stakeholders in anticipating and dealing with transformations. It does so by critically reflecting on the selected papers for this special issue as well as on the discussions that took place at the fourth Seville International Conference on Future oriented Technology Analysis. Considering the potential roles of FTA in enabling a better

understanding of complex situations and in defining effective policy responses leads to the understanding that appropriate FTA practices are needed to enable FTA to fulfil such roles Dealing with disruptive changes and grand challenges in particular therefore raises several conceptual methodological and operational issues Two of them are general while further two are specific to the so called grand challenges i distinguish known unknowns unknown knows and unknown unknowns ii combine quantitative and qualitative approaches in a relevant and feasible way iii understand the complex and systemic nature of grand challenges and iv orchestrate joint responses to grand challenges After a brief explanation of these issues the paper outlines the main ideas of the papers published in this special issue These present various methodological aspects of FTA approaches as well as some advances needed in practice to assist FTA practitioners and stakeholders in comprehending transformations and in tackling the so called grand challenges

#### **Future-Oriented Technology Assessment** Haydar

Yalcin,Tugrul U. Daim,2024-11-13 Comprehensive resource explaining how to evaluate technologies for different purposes in any industry using four different practical approaches By identifying emerging technology and application trends through analyses of published papers and patents Future Oriented Technology Assessment offers a comprehensive view of technology assessment structured into three different practical approaches Technology Evaluation Technology Roadmapping and Technology Intelligence The first three chapters include studies which utilize technology gap analysis multiple criteria decision analysis expert assessment quantification or neural networks to evaluate or forecast technology alternatives The next four chapters use technology roadmapping which charts a comprehensive plan for implementing technology The final five chapters apply bibliometric analysis patent analysis and network analysis to identify technology trends and the leaders in the field Additional topics covered in Future Oriented Technology Assessment include Smart grid technology as an alternative to fossil fuel consumption Heat pump water heaters that reduce the cost of energy and improve energy efficiency with particular focus on research from the US and China Nanotechnology in construction in Saudi Arabia to improve heat insulation energy efficiency and tensile strength in green building designs With comprehensive practical insight into evaluating emerging technologies across different industries Future Oriented Technology Assessment is an essential read for researchers in technology and professionals in engineering and technology management along with professionals and graduate students in related disciplines and programs of study

#### **Special Issue New Horizons and Challenges for**

**Future Oriented Technology Analysis** Fabiana Scapolo,2005 Special Issue: Impacts and Implications of

Future-oriented Technology Analysis (FTA) for Policy and Decision-making Ozcan Saritas,2009 **Future-oriented**

**Technology Analysis (FTA) ,2008** **Anticipating Future Innovation Pathways Through Large Data Analysis** Tugrul

U. Daim,Denise Chiavetta,Alan L. Porter,Ozcan Saritas,2016-07-25 This book aims to identify promising future developmental opportunities and applications for Tech Mining Specifically the enclosed contributions will pursue three converging themes The increasing availability of electronic text data resources relating to Science Technology and Innovation ST that will enrich

FIP Featuring cases of novel approaches and applications of Tech Mining and FIP this volume will present frontier advances in ST I text analytics that will be of interest to students researchers practitioners scholars and policy makers in the fields of R D planning technology management science policy and innovation strategy      **Handbook of Technology Assessment**

Armin Grunwald,2024-10-03 This Handbook provides a comprehensive overview of technology assessment TA practices theories methods and cultures across the globe Highlighting the significant influence of rapidly changing technology on human life and development it examines diverse perspectives on how TA can be developed to better meet the challenges of the future This title contains one or more Open Access chapters      *Science, Technology and Innovation Policy for the Future*

Dirk Meissner,Leonid Gokhberg,Alexander Sokolov,2013-05-24 The book gives practical guidance for policy makers analysts and researchers on how to make the most of the potential of Foresight studies Based on the concept of evidence based policy making Foresight studies are common practice in many countries and are commonly understood as a supportive tool in designing future oriented strategies The book outlines approaches and experiences of integrating such Foresight studies in the making and implementation of science technology and innovation STI policies at different national levels It delivers insights into practical approaches of developing STI policy measures oriented towards future societal and technological challenges based on evidence drawn from comparable policy measures worldwide Authors from leading academic institutions international organizations and national governments provide a sound theoretical foundation and framework as well as checklists and guidelines for leveraging the potential impact of STI policies      **Research Methods in Service Innovation**

Flemming Sørensen,Francesco Lapenta,2017-02-24 Research Methods in Service Innovation provides an essential methodological toolbox for researchers students and practitioners interested in better understanding innovation and improving innovation processes in service organisations Each chapter presents a specific method introduces its theoretical foundations explains its practical application and provides examples and suggestions for its implementation      8th

International Conference on Engineering, Project, and Product Management (EPPM 2017) Sümer Şahin,2018-03-14 This book presents the proceedings of the 8th International Conference on Engineering Project and Product Management EPPM 2017 highlighting the importance of engineering project and product management in a region of the world that is in need of transformation and rebuilding The aim of the conference was to bring together the greatest minds in engineering and management and offer them a platform to share their innovative and potentially transformational findings The proceedings are comprehensive multidisciplinary and advanced in their approach with an appeal not only for academicians and university students but also for professionals in various engineering fields especially construction manufacturing and production

**ECKM 2023 24th European Conference on Knowledge Managemen Vol 1** Academic Conferences and Publishing Limited,2023-09-07      **Forecasting and Management of Technology** Alan L. Porter,Scott W. Cunningham,Jerry Banks,A. Thomas Roper,Thomas W. Mason,Frederick A. Rossini,2011-07-12 Published in 1991 the first edition of Forecasting and

Management of Technology was one of the leading handful of books to deal with the topic of forecasting of technology and technology management as this discipline was emerging. The new revised edition of this book will build on this knowledge in the context of business organizations that now place a greater emphasis on technology to stay on the cutting edge of development. The scope of this edition has broadened to include management of technology content that is relevant to now to executives in organizations while updating and strengthening the technology forecasting and analysis content that the first edition is reputed for. Updated by the original author team plus new author Scott Cunningham, the book takes into account what the authors see as the innovations to technology management in the last 17 years: the Internet, the greater focus on group decision making including process management and mechanism design, and desktop software that has transformed the analytical capabilities of technology managers. Included in this book will be 5 case studies from various industries that show how technology management is applied in the real world.

Deploying Foresight for Policy and Strategy Makers Leonid Gokhberg, Dirk Meissner, Alexander Sokolov, 2016-04-23. This book develops foresight techniques to turn future societal challenges into opportunities. The authors present foresight approaches for innovation policy and management. Future developments in fields such as education, energy, new materials, nanotechnologies are highlighted for different countries. Readers will discover tools and instruments to capture the potentials of the grand societal challenges as defined by the United Nations. This book is a valuable resource for researchers and scholars with an interest in foresight methods and gives practical hints for policy makers and managers to take account of the grand opportunities in their business and policy strategies.

**Digitalization** Daniel R. A. Schallmo, Joseph Tidd, 2021-05-29. What do vehicle manufacturers like Rosenbauer, logistics companies like DB Schenker, a compressor manufacturer such as Bauer, an elevator manufacturer such as ThyssenKrupp, and a hygiene goods manufacturer like Hagleitner all have in common? They all use the potential of digitization to offer smarter and faster services to customers and to actively shape the digital transformation of their business models. This book provides valuable insights with concise and established guidelines for the successful digital transformation of business models. Professionals in management, strategic planning, business development, as well as researchers and students from the fields of innovation, technology management, strategic management, and entrepreneurship would particularly benefit from this book.

*Handbook of Innovation Indicators and Measurement* Fred Gault, 2013-01-01. A great book to understand and foster innovation at all levels, a truly innovative piece of work. Enrico Giovannini, Minister of Labour and Social Policies, Italy. This book brings together original contributions from world-leading experts on innovation indicators and is unique in several respects. First, the focus is upon innovation in terms of commercialized products and processes and not on secondary indicators of research or patenting. Second, it combines academic perspectives with user perspectives from industry and international organizations. Third, it strikes a good balance between old and new indicators, opening up new dimensions of innovation for measuring. It is a book worth reading for scholars, studying innovation, for policy makers, and not least for

innovation managers in the private sector Bengt ke Lundvall Aalborg University Denmark and Sciences Po Paris France This Handbook comprehensively examines indicators and statistical measurement related to innovation as defined in the OECD Eurostat Oslo Manual It deals with the development and the use of innovation indicators to support decision making and is written by authors who are practitioners who know what works and what does not in order to improve the development of indicators to satisfy future policy needs This unique volume presents the historical and geographical context for innovation indicators and measurement practical examples of how measurement is actually undertaken new areas of innovation indicators and measurement including consumer innovation public sector innovation and social innovation This informative Handbook will appeal to policy makers in government departments statistical offices and research institutes and international organizations such as the EU OECD and the UN as well as university departments of economics sociology law science and technology and public policy      *Engineering Digital Transformation* Ángel Ortiz, Carlos Andrés Romano, Raul Poler, José-Pedro García-Sabater, 2018-09-18 This book outlining the latest developments in engineering digital transformation gathers a selection of the best papers presented at the 11th International Conference on Industrial Engineering and Industrial Management CIO 2017 held in Valencia Spain from July 5th to 6th 2017 The papers discuss topics in the following areas strategy and entrepreneurship OR modelling and simulation production logistics and supply chain management information systems quality and product management knowledge and project management service systems and education

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