

Natali Hritonenko and
Yuri Yatsenko

**MODELING AND
OPTIMIZATION OF
THE LIFETIME OF
TECHNOLOGIES**

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Modeling And Optimization Of The Lifetime Of Technologies

David A. Dornfeld, Barbara S. Linke



Modeling And Optimization Of The Lifetime Of Technologies:

Modeling and Optimization of the Lifetime of Technologies N.V. Hritonenko, Yuri P. Yatsenko, 2013-12-01 Modern economic growth is characterized by structural changes based on the introduction of new technologies into economics. The replacement and renovation of technologies in industrial environments undergoing technical change is clearly one of the key aspects of economic development. The mathematical modeling of evolutionary economics under technical change (TC) has been rigorously considered by many authors during last decades. There is a wide variety of economic approaches and models describing different aspects of technical change. Among these are the models of embodied technical progress [19, 35, 70, 129], endogenous growth models [94, 102], the models of technological innovations [31, 32, 41] and others. The perspective self-organization evolutionary approach is developed in [20, 38, 122, 123, 124, 126] which unites the aspects of diffusion of new technologies, technological and behavioral diversity of firms, learning mechanisms, age dependent effects and other important features of real life economics. On the whole, an interest in evolutionary economics has brought considerable progress in the description and conceptualization of the sources, characteristics, direction and effects of technical change [125]. However, the modeling and control of technology lifetime under technical change has received rather little attention in mathematical economics in contrast to other aspects of technical progress. The lifetime of technologies has rarely been formally treated as a part of more general mathematical theory of economic dynamics. A problem which is still to be resolved consists in establishing the rational strategies of technologies replacement under various assumptions on the behavior of technical change.

Life System Modeling and Intelligent Computing Kang Li, Xin Li, Shiwei Ma, George W. Irwin, 2010-09-03 The 2010 International Conference on Life System Modeling and Simulation (LSMS 2010) and the 2010 International Conference on Intelligent Computing for Sustainable Energy and Environment (ICSEE 2010) were formed to bring together researchers and practitioners in the fields of life system modeling, simulation and intelligent computing applied to worldwide sustainable energy and environmental applications. A life system is a broad concept covering both micro and macro components ranging from cells, tissues and organs across to organisms and ecological niches. To comprehend and predict the complex behavior of even a simple life system can be tremendously difficult using conventional approaches. To meet this challenge, a variety of new theories and methodologies have emerged in recent years on life system modeling and simulation. Along with improved understanding of the behavior of biological systems, novel intelligent computing paradigms and techniques have emerged to handle complicated real world problems and applications. In particular, intelligent computing approaches have been valuable in the design and development of systems and facilities for achieving sustainable energy and a sustainable environment, the two most challenging issues currently facing humanity. The two LSMS 2010 and ICSEE 2010 conferences served as an important platform for synergizing these two research streams.

Life System Modeling and Intelligent Computing Minrui Fei, Li Jia, George W. Irwin, 2010-09 This book is part I of a two volume work that contains the refereed proceedings of the

International Conference on Life System Modeling and Simulation LSMS 2010 and the International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2010 held in Wuxi China in September 2010 The 194 revised full papers presented were carefully reviewed and selected from over 880 submissions and recommended for publication by Springer in two volumes of Lecture Notes in Computer Science LNCS and one volume of Lecture Notes in Bioinformatics LNBI This particular volume of Lecture Notes in Computer Science LNCS includes 55 papers covering 7 relevant topics The 55 papers in this volume are organized in topical sections on intelligent modeling monitoring and control of complex nonlinear systems autonomy oriented computing and intelligent agents advanced theory and methodology in fuzzy systems and soft computing computational intelligence in utilization of clean and renewable energy resources intelligent modeling control and supervision for energy saving and pollution reduction intelligent methods in developing vehicles engines and equipments computational methods and intelligence in modeling genetic and biochemical networks and regulation

FOCAPD-19/Proceedings of the 9th International Conference on Foundations of Computer-Aided Process Design, July 14 - 18, 2019 Salvador Garcia Munoz, Carl D. Laird, Matthew J. Realff, 2019-07-09 FOCAPD 19 Proceedings of the 9th International Conference on Foundations of Computer Aided Process Design July 14 18 2019 compiles the presentations given at the Ninth International Conference on Foundations of Computer Aided Process Design FOCAPD 2019 It highlights the meetings held at this event that brings together researchers educators and practitioners to identify new challenges and opportunities for process and product design Combines presentations from the Ninth International Conference on Foundations of Computer Aided Process Design FOCAPD 2019

AMST'99 - Advanced Manufacturing Systems and Technology Elso Kuljanic, 2014-05-04 The Fifth International Conference on Advanced Manufacturing Systems and Technology AMST 99 aims at presenting up to date information on the latest developments research results and industrial experience in the field of machining of conventional and advanced materials high speed machining forming modeling nonconventional machining processes new tool materials and tool systems rapid prototyping life cycle of products and quality assurance thus providing an international forum for a beneficial exchange of ideas and furthering a favourable cooperation between research and industry

Design Technologies for Green and Sustainable Computing Systems Partha Pratim Pande, Amlan Ganguly, Krishnendu Chakrabarty, 2013-07-17 This book provides a comprehensive guide to the design of sustainable and green computing systems GSC Coverage includes important breakthroughs in various aspects of GSC including multi core architectures interconnection technology data centers high performance computing HPC and sensor networks The authors address the challenges of power efficiency and sustainability in various contexts including system design computer architecture programming languages compilers and networking

Leveraging Technology for a Sustainable World David A. Dornfeld, Barbara S. Linke, 2012-04-23 The 19th CIRP Conference on Life Cycle Engineering continues a strong tradition of scientific meetings in the areas of sustainability and engineering within the community of the

International Academy for Production Engineering CIRP The focus of the conference is to review and discuss the current developments technology improvements and future research directions that will allow engineers to help create green businesses and industries that are both socially responsible and economically successful The symposium covers a variety of relevant topics within life cycle engineering including Businesses and Organizations Case Studies End of Life Management Life Cycle Design Machine Tool Technologies for Sustainability Manufacturing Processes Manufacturing Systems Methods and Tools for Sustainability Social Sustainability and Supply Chain Management **Recent Advances in Building**

Materials and Technologies Sreevalsa Kolathayar,K. S. Sreekeshava,N. Vinod Chandra Menon,2024-05-17 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 hosted under the aegis of the Group of Twenty G20 and Civil 20 C20 at Jyothy Institute of Technology Bengaluru India The topics covered in this book are sustainable materials with low embodied carbon such as recycled steel reclaimed wood and alternative binders like geopolymers concrete renewable materials like bamboo and straw energy efficient technologies including solar panels energy efficient insulation and smart building systems This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable and resilient infrastructure that aims for communities with net zero targets Utilizing Information Technology Systems Across Disciplines: Advancements in the Application of Computer Science Abu-Taieh, Evon M. O.,El-Sheikh, Asim A.,Abu-Tayeh, Jehan,2009-03-31 Provides original material concerned with all aspects of information resources management managerial and organizational applications as well as implications of information technology *Innovative Disposal Technology and Management Practice for Medical Waste* Yang Chen,Qinzhong Feng,Zhongkui Zhang,2023-12-17 This book analyzes the latest development trend of international medical waste disposal technology combines the current situation of medical waste management and disposal in China and the requirements of the international community for medical waste and comprehensively and systematically summarizes the relevant contents of medical waste treatment and disposal technology and management practices It is suitable for source classification technology screening engineering construction facility operation supervision and management and environmental monitoring inspection in the field of medical waste treatment and disposal technical training and vocational skills upgrading of operators and can also be used as a reference for teaching and scientific research by relevant personnel in universities and colleges government departments research institutions working in the field of medical waste disposal for environmental protection The present version has been revised technically and linguistically by the authors in collaboration with a professional translator Proceedings of the 5th China Aeronautical Science and Technology Conference Chinese Aeronautical Society,2021-11-02 To sort out the progress of aviation science and technology and industry look forward to the future development trend commend scientific and technological innovation achievements and talents strengthen international cooperation promote discipline exchanges

encourage scientific and technological innovation and promote the development of aviation the Chinese Aeronautical Society holds a China Aviation Science and Technology Conference every two years which has been successfully held for four times and has become the highest level largest scale most influential and authoritative science and technology conference in the field of aviation in China The 5th China Aviation Science and Technology Conference will be held in Wuzhen Jiaxing City Zhejiang Province in 2021 with the theme of New Generation of Aviation Equipment and Technology with academician Zhang Yanzhong as the chairman of the conference This book contains original peer reviewed research papers from the conference The topics covered include but are not limited to navigation guidance and control technologies key technologies for aircraft design and overall optimization aviation test technologies aviation airborne systems electromechanical technologies structural design aerodynamics and flight mechanics other related technologies advanced aviation materials and manufacturing technologies advanced aviation propulsion technologies and civil aviation transportation The papers presented here share the latest discoveries on aviation science and technology making the book a valuable asset for researchers engineers and students

Encyclopedia of Sustainable Technologies Martin Abraham, 2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

Technology for Large Space Systems, 1990 *Digital Twin Technology and Applications* A. Daniel, Srinivasan Sriramulu, N. Partheeban, SANTHOSH JAYAGOPALAN, 2024-09-18 The Fourth Industrial Revolution is being accelerated by the digital twin technological revolution which converges intelligent technologies and defines the connectivity between physical and digital items The Internet of Things IoT connects the real and digital worlds allowing connected items to deliver a vast array of services to internet users IoT devices create large amounts of data that may be fed into AI systems for decision making In a decentralized architecture digital twin technology may be utilized to protect platforms and create smart contracts Digital

twins decentralized ledger immutability self sovereign identification and consensus procedures hold a lot of promise for improving AI algorithms Furthermore leveraging smart contracts in a digital twin system to facilitate user interaction via IoT might have a big influence and this integrated platform is expected to revolutionize many fields Digital Twin Technology and Applications examines the problems issues and solutions for using big data to enable streaming services using IoT and AI with digital twin technology The IoT network concept is the key to success and to establish a solid IoT platform on which large data transmission may take place it must handle protocol standards and architecture The book provides insight into the principles and techniques of IoT and AI It explores the idea of using blockchain to provide security in a variety of sectors The book also covers the application of integrated technologies to strengthen data models improve insights and discoveries innovate audit systems as well as digital twin technology application to intelligent forecasting smart finance smart retail global verification and transparent governance

AI and Robotic Technology in Materials and Chemistry Research Xi Zhu,2025-02-18 A singular resource for researchers seeking to apply artificial intelligence and robotics to materials science In AI and Robotic Technology in Materials and Chemistry Research distinguished researcher Dr Xi Zhu delivers an incisive and practical guide to the use of artificial intelligence and robotics in materials science and chemistry Dr Zhu explains the principles of AI from the perspective of a scientific researcher including the challenges of applying the technology to chemical and biomaterials design He offers concise interviews and surveys of highly regarded industry professionals and highlights the interdisciplinary and broad applicability of widely available AI tools like ChatGPT The book covers computational methods and approaches from algorithms models and experimental data systems and includes case studies that showcase the real world applications of artificial intelligence and lab automation in a variety of scientific research settings from around the world You ll also find A thorough introduction to the challenges currently being faced by chemists and materials science researchers Comprehensive explorations of autonomous laboratories powered by artificial intelligence and robotics Practical discussions of a blockchain powered anti counterfeiting experimental data system in an autonomous laboratory In depth treatments of large language models as applied to autonomous materials research Perfect for materials scientists analytical chemists and robotics engineers AI and Robotic Technology in Materials and Chemistry Research will also benefit analytical and pharmaceutical chemists computer analysts and other professionals and researchers with an interest in artificial intelligence and robotics

Advanced Technologies for Planning and Operation of Prosumer Energy Systems, Volume II Bin Zhou,Junjie Hu,Liansong Xiong,Jian Zhao,Siqi Bu,Jingyang Fang,Hugo Morais,Peng Hou,2023-10-18

Proceedings of the 1st International Conference on Innovation in Information Technology and Business (ICIITB 2022) Nebojsa Bacanin,Hothefa Shaker,2023-02-10 This is an open access book The First International Conference on Innovation in information technology and business ICIITB will be taking place in Muscat Oman on November 9th and 10th 2022 The Conference will be carried out in a hybrid format allowing world scattered academicians researchers and industry

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Clean Energy Technology and Energy Storage Systems Kang Li,Kailong Liu,Yukun Hu,Mao Tan,Long Zhang,Zhile Yang,2024-12-23 The five volume set constitutes the thoroughly refereed proceedings of the 8th International Conference on Life System Modeling and Simulation LSMS 2024 and of the 8th International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2024 which were held during September 13 15 in Suzhou China The 29 papers presented were carefully reviewed and selected from over 496 submissions The LSMS and ICSEE international conference series aim to bring together international researchers and practitioners in the fields of advanced methods for life system modeling and simulation as well as advanced intelligent computing theory methodologies and engineering applications in achieving net zero across all sectors to tackle the global climate change challenge **China Semiconductor Technology International Conference 2010 (CSTIC 2010)** Han-Ming Wu,2010-03 Our mission is to provide a forum for world experts to discuss technologies address the growing needs associated with silicon technology and exchange their discoveries and solutions for current issues of high interest We encourage collaboration open discussion and critical reviews at this conference Furthermore we hope that this conference will also provide collaborative opportunities for those who are interested in the semiconductor industry in Asia particularly in China

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