

Book Review (English Summary)

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Knowledge markets: dynamics, challenges, and opportunities in the digital age

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Abstract

Amid the rapid transformations reshaping the world of knowledge and information where knowledge is no longer generated solely through human effort but is increasingly created, managed, and exchanged through algorithms and intelligent systems, knowledge markets have emerged as one of the strategic economic resources of contemporary societies. Within this context, the book *Knowledge Markets: Dynamics, Challenges, and Opportunities in the Digital Age* explores this vital concept by examining its various dimensions, analyzing its pivotal role in fostering innovation and sustainable development, and making a valuable contribution to the Arabic literature on Information Science and the Knowledge Economy.

The significance of this book stems from the scarcity of Arabic studies that address knowledge markets with such methodological rigor and comprehensive analysis. Consequently, it constitutes an important scholarly reference for researchers, specialists, and policymakers alike.

Book Review

Khaled Abdel Fattah Mohamed. (2025). *Knowledge Markets: Dynamics, Challenges, and Opportunities in the Digital Age*. With contributions from Ali Kamal Shaker, Emad Abdelaziz, and Hadeer Kamel. Dubai: Mohammed Bin Rashid Al Maktoum Knowledge Foundation; Qandeel Printing, Publishing and Distribution. 421 pp. ISBN: 9789948661863.



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Introduction

Amid the rapid transformations reshaping the world of knowledge and information—where knowledge is no longer produced solely through human effort but is increasingly created, managed, and exchanged through algorithms and intelligent systems—knowledge markets have emerged as one of the most strategic economic resources in contemporary societies.

In this context, *Knowledge Markets: Dynamics, Challenges, and Opportunities in the Digital Age* explores this vital concept by examining its various dimensions and its pivotal role in fostering innovation and sustainable development. The book makes a significant contribution to the Arabic literature in the fields of Information Science and the Knowledge Economy.

The book derives its importance from the scarcity of Arabic studies that examine knowledge markets with such methodological rigor and comprehensive analysis, making it an important scholarly reference for researchers, specialists, and policymakers alike.

About the Authors

The book is led by **Professor Dr. Khaled Abdel Fattah**, Digital Knowledge Solutions Advisor at the Mohammed bin Rashid Al Maktoum Knowledge Foundation and Professor of Information Science and Knowledge Management at Fayoum University. Dr. Khaled possesses extensive expertise at both the regional and Arab levels, with distinguished contributions to digital transformation initiatives, the development of knowledge platforms, and digital library management. His notable achievements include participation in the development of the Egyptian Knowledge Bank, alongside an impressive body of scholarly work in Information Science and Knowledge Management.

The book is co-authored by a distinguished team of information science specialists:

- **Dr. Ali Kamal Shaker**, Associate Professor and Head of the Department of Information Science at Al Wasl University.
- **Dr. Emad Abdelaziz**, Sharjah Emirate Archives.
- **Dr. Hadeer Kamel**, Associate Professor of Information Science at Al Wasl University.

The diverse academic backgrounds and professional expertise of the authors enrich both the content and the analytical approach of the book.

Book Overview

The book comprises **nine chapters**, in addition to a conclusion and a comprehensive bibliography organized by chapter, featuring a substantial collection of relevant Arabic and international references.

Chapter One: Conceptual Framework of Knowledge Markets

The opening chapter establishes the conceptual foundations of knowledge markets by providing an operational definition of knowledge and distinguishing it from data and information. It discusses the various types and characteristics of knowledge, the knowledge lifecycle, mechanisms of knowledge creation, knowledge products, methods of knowledge transfer, and concludes by examining the drivers, functions, and defining characteristics of knowledge markets.

Chapter Two: Historical Development of Knowledge Markets

This chapter traces the historical evolution of knowledge markets, beginning with traditional barter-based societies and progressing through the role of educational and research institutions to the emergence of the digital economy and globalization. It also analyzes associated challenges, including the digital divide and structural threats, and concludes with a comparative study of three countries' experiences in knowledge markets.

Chapter Three: Key Actors in Knowledge Markets

The third chapter examines the principal stakeholders in knowledge markets, including knowledge workers and human capital, research institutions, commercial enterprises, and non-profit organizations. It analyzes their respective roles, the challenges they face, and offers strategic recommendations for building an effective Arab knowledge ecosystem.

Chapter Four: Models and Mechanisms of Knowledge Exchange

This chapter explores the various models and mechanisms through which knowledge is exchanged, including licensing agreements, patents, intellectual property rights, scholarly publishing, professional training, consulting services, micro-credentials, digital platforms, and scientific conferences. These are presented as essential vehicles for knowledge dissemination in the digital age.

Chapter Five: The Knowledge-Based Economy

The fifth chapter examines the knowledge-based economy through discussions of knowledge valuation and assessment, their relationship to innovation and intellectual capital, and their impact on enhancing institutional competitiveness. It also highlights the growing role of artificial intelligence in supporting the knowledge economy.

Chapter Six: Challenges Facing Knowledge Markets

This chapter addresses the major obstacles confronting knowledge markets, with particular emphasis on intellectual property issues, disparities in knowledge access among countries, the ethics of knowledge exchange, and information security in digital environments.

Chapter Seven: Strategies for Strengthening Knowledge Markets

The seventh chapter focuses on strategies for advancing knowledge markets, including government policies, digital and hybrid technologies such as blockchain, public-private partnerships, and the development of sustainable knowledge-sharing ecosystems.

Chapter Eight: Case Studies and Best Practices

This chapter presents case studies and successful models from leading companies and countries in knowledge management, identifying best practices that can be adapted and implemented in other contexts.

Chapter Nine: Measuring Knowledge Markets

The final chapter discusses indicators for measuring knowledge markets, reviewing international benchmarks, assessment tools, and the challenges associated with evaluating knowledge performance. The discussion is supported by practical applications and case studies.

Critical Review

The book adopts a **descriptive-analytical methodology**, complemented by comparative analysis and case studies. This approach enables a balanced treatment that successfully integrates theoretical discussion with practical application. The writing is clear, systematic, and well organized, making effective use of international indicators and contemporary examples.

Among the book's greatest strengths are the timeliness of its subject matter, its comprehensive scope, and its close alignment with current issues in the knowledge economy and digital transformation. Another notable merit is its successful integration of theoretical frameworks with practical applications, enhancing both its academic value and professional relevance. As such, it represents an important reference in the fields of Information Science and Knowledge Management.

In conclusion, the book constitutes a valuable addition to the Arabic scholarly literature. It is well suited as an academic and research reference and has strong potential as a university textbook for programs in Information Science, Knowledge Management, Information Systems, Scholarly Publishing, Digital Media, and related disciplines. It also serves as an important guide for policymakers and strategic planners concerned with the development of knowledge markets in the digital age.