

# Portfolio Theory Of Information Retrieval

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Keywords: Multi-period information retrieval, portfolio theory, statistical modeling, multi-armed bandit machine  
1. INTRODUCTION  
Mainstream IR models and theories have been largely de-voted to maximising static performance, however, the relevance of a document is in fact stochastic and liable to change

## **Bing: Portfolio Theory Of Information Retrieval**

Modern portfolio theory, Mean-variance analysis, Probability ranking principle, Ranking under uncertainty 1 Introduction Information retrieval (IR) concerns how to retrieve documents for a user information need. The process of retrieving documents may be divided into two stages.

## **Portfolio Theory Of Information Retrieval**

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## **Has portfolio theory got any principles? | Proceedings of ...**

Inspired by the Modern Portfolio Theory, an economic theory dealing with investment in financial markets, we argue that ranking under uncertainty is not just about picking individual relevant documents, but about choosing the right combination of relevant documents.

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theory, Mean-variance analysis, Probability ranking principle, Ranking under uncertainty 1 Introduction Information retrieval (IR) concerns how to retrieve documents for a user information need. The process of retrieving documents may be divided into two stages. Portfolio Theory of Information Retrieval

### **(PDF) Portfolio Theory of Information Retrieval**

Recently, modern portfolio theory has been applied to modelling the uncertainty and correlation between documents in information retrieval. Given a query, the aim is to maximize the overall relevance of a ranked list of documents and at the same time minimize the overall uncertainty of the ranked list.

### **Post-Modern Portfolio Theory for Information Retrieval ...**

Recently, Portfolio Theory (PT) has been proposed for Information Retrieval. However, under non-trivial conditions PT violates the original Probability Ranking Principle (PRP). In this poster, we shall explore whether PT upholds a different ranking principle based on Quantum Theory, i.e. the Quantum Probability Ranking Principle (QPRP), and examine the relationship between this new model and the new ranking principle.

### **Portfolio Theory of Information Retrieval**

Inspired by the Modern Portfolio Theory, an economic

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theory dealing with investment in financial markets, we argue that ranking under uncertainty is not just about picking individual relevant documents, but about choosing the right combination of relevant documents.

### **Modern portfolio theory - Wikipedia**

Portfolio Theory of Information Retrieval. Conference Paper (PDF Available) · January 2009 ... Along this line, inspired by the modern portfolio theory [5], [6] ...

### **Portfolio theory of information retrieval | Proceedings of ...**

Information theory studies the quantification, storage, and communication of information. It was originally proposed by Claude Shannon in 1948 to find fundamental limits on signal processing and communication operations such as data compression, in a landmark paper titled "A Mathematical Theory of Communication". Its impact has been crucial to the success of the Voyager missions to deep space ...

### **Portfolio theory of information retrieval - CORE**

Motivated by the concept of Post-Modern Portfolio Theory (PMPT), this paper proposes a mean-semivariance framework: Only take bad surprises into account for risk-averse users. Only consider good surprises for the risk-loving users. 7 / 15 Post-Modern Portfolio Theory for Information Retrieval N

## **Portfolio Theory Of Information Retrieval**

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## **Portfolio Theory of Information Retrieval**

Information Retrieval (IR) aims to discover relevant information according to a user's information need. In general, the process of retrieving information consists of two phases. In the first phase, probabilistic retrieval models [1] compute the relevance between a given user's information need (query) and each of the documents in a collection.

## **Post-Modern Portfolio Theory for Information Retrieval**

In general, the process of retrieving information consists of two phases. In the first phase, probabilistic retrieval models [1] compute the relevance between a given user's information need (query) and each of the documents in a collection. The second phase focuses on how to rank the calculated documents; the classic Probability Ranking Principle (PRP) [2] forms the theoretical basis of this phase, which ranks the documents with the order of decreasing probabilities of relevance to ...

## **Post-Modern Portfolio Theory for Information Retrieval**

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Wang J, Zhu J. Portfolio theory of information retrieval. SIGIR. 2009. pp. 115–122. Santos RLT, Macdonald C, Ounis I. Exploiting query reformulations for web search result diversification. WWW. 2010. pp. 881–890. Yin X, Huang X, Li Z. Promoting ranking diversity for biomedical information retrieval using wikipedia.

### **Dynamical Information Retrieval Modelling**

Portfolio theory of information retrieval It is tackled in a general situation where the relevance predictions of individual documents have uncertainty, and are dependent between each other.

### **Learning to rank diversified results for biomedical ...**

Portfolio Theory of Information Retrieval – p. 8/22 Our View of the Ranking Problems (3) Markowitz' approach is based on the analysis of the expected return (mean) of a portfolio and its variance (or standard deviation) of return. The latter serves as a measure of risk

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