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Portfolio Theory Of Information Retrieval

the portfolio theory of document ranking. We formulate the ranking problem as a portfolio selection problem. That is, in response to a user information need, a top-n ranked list (portfolio) of documents is selected as a whole, rather than ranking documents independently. To characterize a ranked list, we employ two summary statistics, mean and variance.

Portfolio Theory of Information Retrieval

Wang et al. [32] proposed a diversified search framework based on the portfolio theory that ranks results according to both relevance and variance. Some researchers use topic models to partition ...

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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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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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Portfolio Theory of Information Retrieval 1. Portfolio Theory of Information Retrieval Jun Wang and Jianhan Zhu jun.wang@cs.ucl.ac.uk Department of Computer Science University College London, UK Portfolio Theory of Information Retrieval - p. 1/22 2.

Portfolio Theory of Information Retrieval

Portfolio theory of information retrieval Wang, Jun; Zhu, Jianhan 2009-07-19 00:00:00 Portfolio Theory of Information Retrieval Jun Wang and Jianhan Zhu Department of Computer Science, University College London Malet Place, London WC1E 6BT, UK jun_wang@acm.org, jianhan.zhu@ucl.ac.uk ABSTRACT This paper studies document ranking under uncertainty. It is tackled in a general situation where the relevance predictions of individual documents have uncertainty, and are dependent between each other.

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Introduction 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.

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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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Motivated by the concept of Post-Modern Portfolio Theory (PMPT),

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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

Post-Modern Portfolio Theory for 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.

Modern portfolio theory - Wikipedia

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

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between a given user's information need (query) and each of the documents in a collection.

Post-Modern Portfolio Theory for Information Retrieval

Introduction to Portfolio Theory Updated: August 9, 2013. This chapter introduces modern portfolio theory in a simplified setting where there are only two risky assets and a single risk-free asset. 1.1 Portfolios of Two Risky Assets Consider the following investment problem. We can invest in two non-

Chapter 1 Introduction to Portfolio Theory

Information Retrieval (IR) aims to discover relevant information according to a user's information need. The classic Probability Ranking Principle (PRP) forms the theoretical basis for...

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Portfolio Theory in finance, we quantify a ranked list of documents on the basis of its expected overall relevance (mean) and its variance; the latter serves as a measure of risk, which was rarely studied for document ranking in the past. Through the analysis of the mean and variance, we show that an optimal rank order is the one that maximizes the overall rel-

Mean-Variance Analysis: A New Document Ranking Theory in ...

Information theory studies the quantification, storage, and

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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 ...

Information theory - Wikipedia

Abstract Information Retrieval (IR) aims to discover relevant information according to a user's information need. The classic Probability Ranking Principle (PRP) forms the theoretical basis for probabilistic IR models. This ranking principle, however, neglects the uncertainty introduced through the estimations from retrieval models.

Post-Modern Portfolio Theory for Information Retrieval - CORE

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Special Issue on the Second International Conference on the Theory of Information Retrieval (ICTIR2009) Volume 13 February - December 2010. December 2010, issue 6; October 2010, issue 5. Special Issue on Focused Retrieval and Result Aggregation; Guest Editors: Andrew Trotman, Shlomo Geva, Jaap Kamps, Mounia Lalmas and Vanessa Murdock. August ...

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