

Portfolio Theory Of Information Retrieval

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Explained Neural Models for Information Retrieval *Modern Portfolio*

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Theory - Efficient Frontier Portfolio Theory - Part 4 (Math Concepts)
Information Retrieval Evaluation - I **Modern Portfolio Theory by Harry Markowitz (explained in layman terms) Information Retrieval:**

Evaluation 13. Information Retrieval *What is INFORMATION RETRIEVAL? What does INFORMATION RETRIEVAL mean? INFORMATION RETRIEVAL meaning Dr. Neil deGrasse Tyson and Dr. Will Roper Keynote CAPM — What is the Capital Asset Pricing Model 16. Portfolio Management*

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The Confusion with Portfolio Variance

Espoused Theory vs Theory in-use. ~~Information Retrieval — Introduction and Boolean Retrieval with example~~ **Information Retrieval » Introduction » Retrieval Problems » Examples of IR Problems (003) 7 5 The Boolean Retrieval Model 14 06**

Lecture 19 – Probabilistic Retrieval Model Basic Idea | UIUC
Information Retrieval System *THEORY VOLUME 1 FIRST YEAR - Computer Application Accounting and Publishing* Portfolio Theory: Calculating a Minimum Variance Two Asset Portfolio - Part 3 *Portfolio Theory Of Information Retrieval*

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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.

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

(PDF) Portfolio Theory of Information Retrieval

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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can be taken as without difficulty as picked to act. Page 2/9

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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 - 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

Portfolio Theory of Information Retrieval

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.

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Portfolio Theory in IR (2) Weight w_i is similar to the discount factors that have been applied to IR evaluation in order to penalize

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late-retrieved relevant documents [Järvelin and Kekäläinen(2002)] It can be easily shown that when $w_1 > w_2 \dots > w_n$, the maximum value of R_n gives the ranking order $r_1 > r_2 \dots > r_n$ This follows immediately that maximizing R - by which the document with highest relevance score is retrieved first, the document with next highest is retrieved second, etc ...

Portfolio Theory of 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 ...

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

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overall uncertainty of the ranked list.

Modern portfolio theory - Wikipedia

Portfolio Theory Of Information Retrieval 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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Portfolio theory of information retrieval - CORE

Portfolio theory of information retrieval - 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. Inspired by the Modern Portfolio Theory, an economic theory dealing with investment in

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Financial markets, we argue that ranking under uncertainty ...

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theoretical insight individual relevant document general situation
modern portfolio theory optimal rank order relevant document latter
serf effective way well-known probability individual document ...

CiteSeerX – 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.

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This book constitutes the refereed proceedings of the Third International Conference on the Theory of Information Retrieval, ICTIR 2011, held in Bertinoro, Italy, in September 2011. The 25 revised full papers and 13 short papers presented together with the abstracts of two invited talks were carefully reviewed and selected from 65 submissions. The papers cover topics ranging from query expansion, co-occurrence analysis, user and interactive modelling, system performance prediction and comparison, and probabilistic approaches for ranking and modelling IR to topics related to interdisciplinary approaches or applications. They are organized into the following topical sections:

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predicting query performance; latent semantic analysis and word co-occurrence analysis; query expansion and re-ranking; comparison of information retrieval systems and approximate search; probability ranking principle and alternatives; interdisciplinary approaches; user and relevance; result diversification and query disambiguation; and logical operators and descriptive approaches.

This book constitutes the refereed proceedings of the 33rd annual European Conference on Information Retrieval Research, ECIR 2011, held in Dublin, Ireland, in April 2010. The 45 revised full papers presented together with 24 poster papers, 17 short papers, and 6 tool demonstrations were carefully reviewed and selected from 223 full research paper submissions and 64 poster/demo submissions. The papers are organized in topical sections on text categorization, recommender systems, Web IR, IR evaluation, IR for Social Networks, cross-language IR, IR theory, multimedia IR, IR applications, interactive IR, and question answering /NLP.

This book constitutes the refereed proceedings of the 7th Asia Information Retrieval Societies Conference AIRS 2011, held in Dubai, United Arab Emirates, in December 2011. The 31 revised full papers and 25 revised poster papers presented were carefully reviewed and

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selected from 132 submissions. All current aspects of information retrieval - in theory and practice - are addressed; the papers are organized in topical sections on information retrieval models and theories; information retrieval applications and multimedia information retrieval; user study, information retrieval evaluation and interactive information retrieval; Web information retrieval, scalability and adversarial information retrieval; machine learning for information retrieval; natural language processing for information retrieval; arabic script text processing and retrieval.

This book presents the proceedings of the 4th International Conference of Reliable Information and Communication Technology 2019 (IRICT 2019), which was held in Pulau Springs Resort, Johor, Malaysia, on September 22-23, 2019. Featuring 109 papers, the book covers hot topics such as artificial intelligence and soft computing, data science and big data analytics, internet of things (IoT), intelligent communication systems, advances in information security, advances in information systems and software engineering.

This book offers a helpful starting point in the scattered, rich, and complex body of literature on Mobile Information Retrieval (Mobile IR), reviewing more than 200 papers in nine chapters. Highlighting the

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most interesting and influential contributions that have appeared in recent years, it particularly focuses on both user interaction and techniques for the perception and use of context, which, taken together, shape much of today's research on Mobile IR. The book starts by addressing the differences between IR and Mobile IR, while also reviewing the foundations of Mobile IR research. It then examines the different kinds of documents, users, and information needs that can be found in Mobile IR, and which set it apart from standard IR. Next, it discusses the two important issues of user interfaces and context-awareness. In closing, it covers issues related to the evaluation of Mobile IR applications. Overall, the book offers a valuable tool, helping new and veteran researchers alike to navigate this exciting and highly dynamic area of research.

This book constitutes the refereed proceedings of the 11th Information Retrieval Societies Conference, AIRS 2015, held in Brisbane, QLD, Australia, in December 2015. The 29 full papers presented together with 11 short and demonstration papers, and the abstracts of 2 keynote lectures were carefully reviewed and selected from 92 submissions. The final programme of AIRS 2015 is divided in 10 tracks: Efficiency, Graphs, Knowledge Bases and Taxonomies, Recommendation, Twitter and Social Media, Web Search, Text Processing, Understanding and

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Categorization, Topics and Models, Clustering, Evaluation, and Social Media and Recommendation.

The Asia Information Retrieval Societies Conference (AIRS) 2010 was the sixth conference in the AIRS series, aiming to bring together international researchers and developers to exchange new ideas and the latest results in information - trieval. The scope of the conference encompassed the theory and practice of all aspects of information retrieval in text, audio, image, video, and multimedia data. AIRS 2010 continued the conference series that grew from the Information Retrieval with Asian Languages (IRAL) workshop series, started in 1996. It has become a mature venue for information retrieval work, ?nding support from the ACM Special Interest Group on Information Retrieval (SIGIR); the Association for Computational Linguistics and Chinese Language Processing (ACLCLP); ROCLING; and the Information Processing Society of Japan, Special Interest GrouponInformationFundamentals andAccess Technologies(IPSJSIG-IFAT). This year saw a sharp rise in the number of submissions over the previous year. A total of 120 papers were submitted, representing work by academics and practitioners not only from Asia, but also from Australia, Europe, North America, etc. The high quality of the work made it di?cult for the dedicated

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program committee to decide which papers to feature at the conference. Through a double-blind reviewing process, 26 submissions (21%) were accepted as full oral papers and 31 (25%) were accepted as short posters. The success of this conference was only possible with the support of all of the authors who submitted papers for review, the program committee members who constructively assessed the submissions, and the registered conference delegates. We thank them for their support of this conference, and for their long-term support of this Asian-centric venue for IR research and development.

This book constitutes the refereed proceedings of the 12th Information Retrieval Societies Conference, AIRS 2016, held in Beijing, China, in November/December 2016. The 21 full papers presented together with 11 short papers were carefully reviewed and selected from 57 submissions. The final programme of AIRS 2015 is divided in the following tracks: IR models and theories; machine learning and data mining for IR; IR applications and user modeling; personalization and recommendation; and IR evaluation.

This book constitutes the proceedings of the 35th European Conference on IR Research, ECIR 2013, held in Moscow, Russia, in March 2013. The 55 full papers, 38 poster papers and 10 demonstrations presented in

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this volume were carefully reviewed and selected from 287 submissions. The papers are organized in the following topical sections: user aspects; multimedia and cross-media IR; data mining; IR theory and formal models; IR system architectures; classification; Web; event detection; temporal IR, and microblog search. Also included are 4 tutorial and 2 workshop presentations.

This book constitutes the proceedings of the 18th International Symposium on String Processing and Information Retrieval, SPIRE 2011, held in Pisa, Italy, in October 2011. The 30 long and 10 short papers together with 1 keynote presented were carefully reviewed and selected from 102 submissions. The papers are structured in topical sections on introduction to web retrieval, sequence learning, computational geography, space-efficient data structures, algorithmic analysis of biological data, compression, text and algorithms.

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