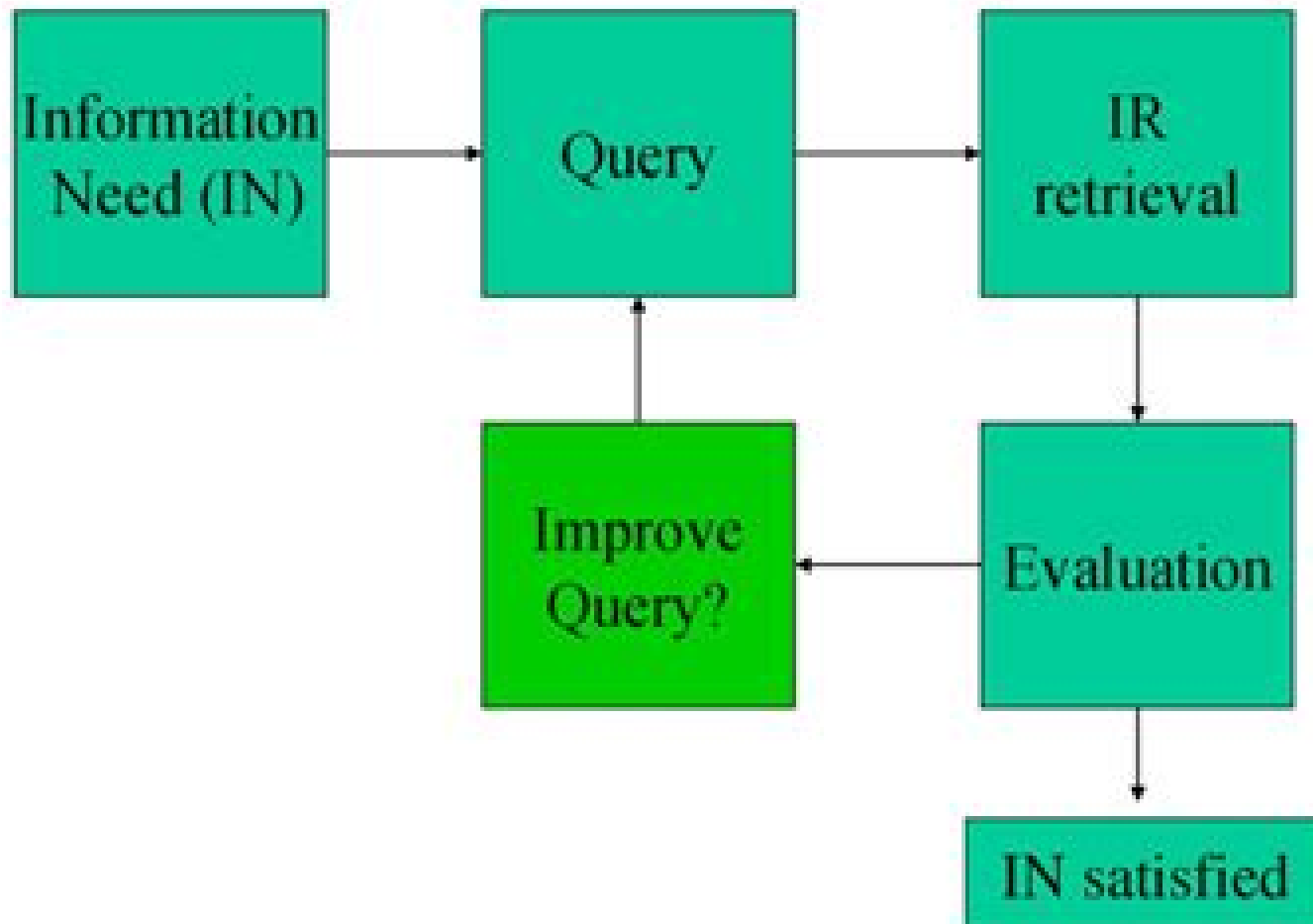


# Evaluation Workflow



# Evaluating Information Retrieval Systems

**Gerald J. Kowalski**



## Evaluating Information Retrieval Systems:

**Information Retrieval Evaluation** Donna Harman, 2022-05-31 Evaluation has always played a major role in information retrieval with the early pioneers such as Cyril Cleverdon and Gerard Salton laying the foundations for most of the evaluation methodologies in use today. The retrieval community has been extremely fortunate to have such a well grounded evaluation paradigm during a period when most of the human language technologies were just developing. This lecture has the goal of explaining where these evaluation methodologies came from and how they have continued to adapt to the vastly changed environment in the search engine world today. The lecture starts with a discussion of the early evaluation of information retrieval systems starting with the Cranfield testing in the early 1960s continuing with the Lancaster user study for MEDLARS and presenting the various test collection investigations by the SMART project and by groups in Britain. The emphasis in this chapter is on the how and the why of the various methodologies developed. The second chapter covers the more recent batch evaluations examining the methodologies used in the various open evaluation campaigns such as TREC, NTCIR, emphasis on Asian languages, CLEF, emphasis on European languages, INEX, emphasis on semi structured data etc. Here again the focus is on the how and why and in particular on the evolving of the older evaluation methodologies to handle new information access techniques. This includes how the test collection techniques were modified and how the metrics were changed to better reflect operational environments. The final chapters look at evaluation issues in user studies, the interactive part of information retrieval including a look at the search log studies mainly done by the commercial search engines. Here the goal is to show via case studies how the high level issues of experimental design affect the final evaluations.

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*Information Retrieval Systems* Gerald J. Kowalski, 2007-08-23  
The growth of the Internet and the availability of enormous volumes of data in digital form have necessitated intense interest in techniques to assist the user in locating data of interest. The Internet has over 350 million pages of data and is expected to reach over one billion pages by the year 2000. Buried on the Internet are both valuable nuggets to answer questions as well as a large quantity of information the average person does not care about. The Digital Library effort is also progressing with the goal of migrating from the traditional book environment to a digital library environment. The challenge to both authors of new publications that will reside on this information domain and developers of systems to locate information is to provide the information and capabilities to sort out the non relevant items from those desired by the consumer. In effect as we proceed

down this path it will be the computer that determines what we see versus the human being The days of going to a library and browsing the new book shelf are being replaced by electronic searching the Internet or the library catalogs Whatever the search engines return will constrain our knowledge of what information is available An understanding of Information Retrieval Systems puts this new environment into perspective for both the creator of documents and the consumer trying to locate information

**Methods for Evaluating Interactive Information Retrieval Systems with Users** Diane Kelly, 2009 Provides an overview and instruction on the evaluation of interactive information retrieval systems with users

*Evaluating Information Retrieval and Access Tasks* Tetsuya Sakai, Douglas W. Oard, Noriko Kando, 2020-09-01 This open access book summarizes the first two decades of the NII Testbeds and Community for Information access Research NTCIR NTCIR is a series of evaluation forums run by a global team of researchers and hosted by the National Institute of Informatics NII Japan The book is unique in that it discusses not just what was done at NTCIR but also how it was done and the impact it has achieved For example in some chapters the reader sees the early seeds of what eventually grew to be the search engines that provide access to content on the World Wide Web today's smartphones that can tailor what they show to the needs of their owners and the smart speakers that enrich our lives at home and on the move We also get glimpses into how new search engines can be built for mathematical formulae or for the digital record of a lived human life Key to the success of the NTCIR endeavor was early recognition that information access research is an empirical discipline and that evaluation therefore lay at the core of the enterprise Evaluation is thus at the heart of each chapter in this book They show for example how the recognition that some documents are more important than others has shaped thinking about evaluation design The thirty three contributors to this volume speak for the many hundreds of researchers from dozens of countries around the world who together shaped NTCIR as organizers and participants This book is suitable for researchers practitioners and students anyone who wants to learn about past and present evaluation efforts in information retrieval information access and natural language processing as well as those who want to participate in an evaluation task or even to design and organize one

*Test Collection Based Evaluation of Information Retrieval Systems* Mark Sanderson, 2010-06-03 Use of test collections and evaluation measures to assess the effectiveness of information retrieval systems has its origins in work dating back to the early 1950s Across the nearly 60 years since that work started use of test collections is a de facto standard of evaluation This monograph surveys the research conducted and explains the methods and measures devised for evaluation of retrieval systems including a detailed look at the use of statistical significance testing in retrieval experimentation This monograph reviews more recent examinations of the validity of the test collection approach and evaluation measures as well as outlining trends in current research exploiting query logs and live labs At its core the modern day test collection is little different from the structures that the pioneering researchers in the 1950s and 1960s conceived of This tutorial and review shows that despite its age this long standing evaluation method is still a highly valued tool for retrieval research

**Evaluation of**

**Information Systems** Madeline M. Henderson, 1967      Evaluating Information Retrieval Systems Eva Kiewitt, 1979-01-05  
 Evaluating computer systems The ERIC Systems and the PROBE Project User studies related to retrieval systems Systems  
 performance analysis of computer retrieval systems Cost analysis in system evaluation Summary and trends in system  
 evaluation The PROBE user search form The PROBE Evaluation Questionnaire I PROBE Evaluation Questionnaire II Glossary  
 Bibliography Index      **Evaluation of Multilingual and Multi-modal Information Retrieval** Cross-Language Evaluation  
 Forum. Workshop, Carol Peters, 2007-09-06 This book constitutes the thoroughly refereed postproceedings of the 7th  
 Workshop of the Cross Language Evaluation Forum CLEF 2006 held in Alicante Spain September 2006 The revised papers  
 presented together with an introduction were carefully reviewed and selected for inclusion in the book The papers are  
 organized in topical sections on Multilingual Textual Document Retrieval Domain Specific Information Retrieval i CLEF QA  
 CLEF Image CLEF CLSR WebCLEF and GeoCLEF      *Information Retrieval Meets Information Visualization* Maristella  
 Agosti, Nicola Ferro, Pamela Forner, Henning Müller, Giuseppe Santucci, 2013-01-24 The research domains information  
 retrieval and information visualization have always been independent from each other However they have the potential to be  
 mutually beneficial With this in mind a writer school was organized in Zinal Switzerland in January 2012 within the context of  
 the EU funded research project PROMISE Participative Research Laboratory for Multimedia and Multilingual Information  
 Systems Evaluation PROMISE aims at advancing the experimental evaluation of complex multimedia and multilingual  
 information systems in order to support individuals commercial entities and communities who design develop employ and  
 improve such complex systems The overall goal of PROMISE is to deliver a unified environment collecting data knowledge  
 tools and methodologies and to help the user community involved in experimental evaluation This book constitutes the  
 outcome of the PROMISE Winter School 2012 and contains 11 invited lectures from the research domains information  
 retrieval and information visualization A large variety of subjects are covered including hot topics such as crowdsourcing and  
 social media      Information Retrieval: A Health Care Perspective William R. Hersh, 2013-03-09 As the health care industry  
 becomes increasingly dependent on electronic information the need for sophisticated information retrieval systems and for  
 knowledgeable people to design purchase and use them also increases Although a number of books have been devoted to the  
 mechanics of on line searching and the structure of general retrieval systems no book has addressed the specific needs and  
 concerns of health care information retrieval systems Dr Hersh s book fills that gap      Information Retrieval Evaluation in a  
 Changing World Nicola Ferro, Carol Peters, 2019-08-13 This volume celebrates the twentieth anniversary of CLEF the Cross  
 Language Evaluation Forum for the first ten years and the Conference and Labs of the Evaluation Forum since and traces its  
 evolution over these first two decades CLEF s main mission is to promote research innovation and development of  
 information retrieval IR systems by anticipating trends in information management in order to stimulate advances in the field  
 of IR system experimentation and evaluation The book is divided into six parts Parts I and II provide background and context

with the first part explaining what is meant by experimental evaluation and the underlying theory and describing how this has been interpreted in CLEF and in other internationally recognized evaluation initiatives Part II presents research architectures and infrastructures that have been developed to manage experimental data and to provide evaluation services in CLEF and elsewhere Parts III IV and V represent the core of the book presenting some of the most significant evaluation activities in CLEF ranging from the early multilingual text processing exercises to the later more sophisticated experiments on multimodal collections in diverse genres and media In all cases the focus is not only on describing what has been achieved but above all on what has been learnt The final part examines the impact CLEF has had on the research world and discusses current and future challenges both academic and industrial including the relevance of IR benchmarking in industrial settings Mainly intended for researchers in academia and industry it also offers useful insights and tips for practitioners in industry working on the evaluation and performance issues of IR tools and graduate students specializing in information retrieval

**Evaluation of Cross-Language Information Retrieval Systems** Martin Braschler,Julio Gonzalo,Michael Kluck,2003-08-02 The second evaluation campaign of the Cross Language Evaluation Forum CLEF for European languages was held from January to September 2001 This campaign proved a great success and showed an increase in participation of around 70% compared with CLEF 2000 It culminated in a two day workshop in Darmstadt Germany 3 4 September in conjunction with the 5th European Conference on Digital Libraries ECDL 2001 On the first day of the workshop the results of the CLEF 2001 evaluation campaign were reported and discussed in paper and poster sessions The second day focused on the current needs of cross language systems and how evaluation campaigns in the future can best be designed to stimulate progress The workshop was attended by nearly 50 researchers and system developers from both academia and industry It provided an important opportunity for researchers working in the same area to get together and exchange ideas and experiences Copies of all the presentations are available on the CLEF web site at <http://www.clef-campaign.org> This volume contains thoroughly revised and expanded versions of the papers presented at the workshop and provides an exhaustive record of the CLEF 2001 campaign CLEF 2001 was conducted as an activity of the DELOS Network of Excellence for Digital Libraries funded by the EC Information Society Technologies program to further research in digital library technologies The activity was organized in collaboration with the US National Institute of Standards and Technology NIST

**Teaching and Learning in Information Retrieval** Efthimis Efthimiadis,Juan M. Fernández-Luna,Juan F. Huete,Andrew

MacFarlane,2011-10-06 Information Retrieval has become a very active research field in the 21st century Many from academia and industry present their innovations in the field in a wide variety of conferences and journals Companies transfer this new knowledge directly to the general public via services such as web search engines in order to improve their information seeking experience In parallel teaching IR is turning into an important aspect of IR generally not only because it is necessary to impart effective search techniques to make the most of the IR tools available but also because we must

provide a good foundation for those students who will become the driving force of future IR technologies There are very few resources for teaching and learning in IR the major problem which this book is designed to solve The objective is to provide ideas and practical experience of teaching and learning IR for those whose job requires them to teach in one form or another and where delivering IR courses is a major part of their working lives In this context of providing a higher profile for teaching and learning as applied to IR the co editor of this book Efthimis Efthimiathis had maintained a leading role in teaching and learning within the domain of IR for a number of years This book represents a posthumous example of his efforts in the area as he passed away in April 2011 This book his book is dedicated to his memory *Advances in Information Retrieval* Matthias Hagen, Suzan Verberne, Craig Macdonald, Christin Seifert, Krisztian Balog, Kjetil Nørvåg, Vinay Setty, 2022-04-05 This two volume set LNCS 13185 and 13186 constitutes the refereed proceedings of the 44th European Conference on IR Research ECIR 2022 held in April 2022 due to the COVID 19 pandemic The 35 full papers presented together with 11 reproducibility papers 13 CLEF lab descriptions papers 12 doctoral consortium papers 5 workshop abstracts and 4 tutorials abstracts were carefully reviewed and selected from 395 submissions **Dependable Computer Systems** Wojciech Zamojski, Janusz Kacprzyk, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, 2011-05-13 Dependability analysis is the recent approach to performance evaluation of contemporary systems which tries to cope with new challenges that are brought with their unprecedented complexity size and diversity Especially in case of computer systems and networks such evaluation must be based on multidisciplinary approach to theory technology and maintenance of systems which operate in real and very often unfriendly environments As opposed to classic reliability which focuses mainly on technical aspects of system functioning dependability studies investigate the systems as multifaceted and sophisticated amalgamations of technical information and also human resources This monograph presents selected new developments in such areas of dependability research as mathematical models evaluation of software probabilistic assessment methodologies tools and technologies Intelligent and soft computing methods help to resolve fundamental problems of dependability analysis which are caused by the fact that in contemporary computer systems it is often difficult to find a relation between system elements and system events the relation between reasons and results and it is even more difficult to define strict mathematical models with analytical relationships between such phenomena Research Study of Criteria and Procedures for Evaluating Scientific Information Retrieval Systems Arthur Andersen & Co, 1962 Current Challenges in Patent Information Retrieval Mihai Lupu, Katja Mayer, Noriko Kando, Anthony J. Trippe, 2017-03-24 This second edition provides a systematic introduction to the work and views of the emerging patent search research and innovation communities as well as an overview of what has been achieved and perhaps even more importantly of what remains to be achieved It revises many of the contributions of the first edition and adds a significant number of new ones The first part Introduction to Patent Searching includes two overview chapters on the peculiarities of patent searching and on contemporary search technology respectively and thus sets

the scene for the subsequent parts The second part on Evaluating Patent Retrieval then begins with two chapters dedicated to patent evaluation campaigns followed by two chapters discussing complementary issues from the perspective of patent searchers and from the perspective of related domains notably legal search High Recall Search includes four completely new chapters dealing with the issue of finding only the relevant documents in a reasonable time span The last and with six papers the largest part on Special Topics in Patent Information Retrieval covers a large spectrum of research in the patent field from classification and image processing to translation Lastly the book is completed by an outlook on open issues and future research Several of the chapters have been jointly written by intellectual property and information retrieval experts However members of both communities with a background different to that of the primary author have reviewed the chapters making the book accessible to both the patent search community and to the information retrieval research community It also not only offers the latest findings for academic researchers but is also a valuable resource for IP professionals wanting to learn about current IR approaches in the patent domain

**Information Retrieval: Uncertainty and Logics** Cornelis Joost van Rijsbergen, Fabio Crestani, Mounia Lalmas, 2012-12-06 In recent years there have been several attempts to define a logic for information retrieval IR The aim was to provide a rich and uniform representation of information and its semantics with the goal of improving retrieval effectiveness The basis of a logical model for IR is the assumption that queries and documents can be represented effectively by logical formulae To retrieve a document an IR system has to infer the formula representing the query from the formula representing the document This logical interpretation of query and document emphasizes that relevance in IR is an inference process The use of logic to build IR models enables one to obtain models that are more general than earlier well known IR models Indeed some logical models are able to represent within a uniform framework various features of IR systems such as hypermedia links multimedia data and user s knowledge Logic also provides a common approach to the integration of IR systems with logical database systems Finally logic makes it possible to reason about an IR model and its properties This latter possibility is becoming increasingly more important since conventional evaluation methods although good indicators of the effectiveness of IR systems often give results which cannot be predicted or for that matter satisfactorily explained However logic by itself cannot fully model IR The success or the failure of the inference of the query formula from the document formula is not enough to model relevance in IR It is necessary to take into account the uncertainty inherent in such an inference process In 1986 Van Rijsbergen proposed the uncertainty logical principle to model relevance as an uncertain inference process When proposing the principle Van Rijsbergen was not specific about which logic and which uncertainty theory to use As a consequence various logics and uncertainty theories have been proposed and investigated The choice of an appropriate logic and uncertainty mechanism has been a main research theme in logical IR modeling leading to a number of logical IR models over the years Information Retrieval Uncertainty and Logics contains a collection of exciting papers proposing developing and implementing logical IR models This book is appropriate for use as a



text for a graduate level course on Information Retrieval or Database Systems and as a reference for researchers and practitioners in industry

*Evaluation of diagnostic systems* John Swets, 2012-12-02

*Evaluation of Diagnostic Systems* Methods from Signal Detection Theory addresses the many issues that arise in evaluating the performance of a diagnostic system across the wide range of settings in which such systems are used. These settings include clinical medicine, industrial quality control, environmental monitoring and investigation, machine and metals inspection, military monitoring, information retrieval and crime investigation. The book is divided into three parts encompassing 11 chapters that emphasize the interpretation of diagnostic visual images by human observers. The first part of the book describes quantitative methods for measuring the accuracy of a system and the statistical techniques for drawing inferences from performance tests. The subsequent part covers study design and includes a detailed description of the form and conduct of an image interpretation test. The concluding part examines the case study of a medical imaging system that serves as an example of both simple and complex applications. In this part, three mammographic modalities are used: industrial film radiography, low dose film radiography and xeroradiography. The case study focuses on the overall reliability of accuracy indices made by its main components: that is, the variabilities across cases, across readers and within individual readers. The supplementary texts provide study protocols, a computer program for processing test results and an extensive list of references that will assist the reader in applying those evaluative methods to diagnostic systems in any setting. This book is of value to scientists and engineers as well as to applied quantitative or experimental psychologists who are engaged in the study of the human processes of discrimination and decision making in either perceptual or cognitive tasks.

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