

# Performance Evaluation in Multimedia Retrieval

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Performance evaluation in multimedia retrieval, as in the information retrieval domain at large, relies heavily on retrieval experiments, employing a broad range of techniques and metrics. These can involve human-in-the-loop and machine-only settings for the retrieval process itself and the subsequent verification of results. Such experiments can be elaborate and use-case-specific, which can make them difficult to compare or replicate. In this paper, we present a formal model to express all relevant aspects of such retrieval experiments, as well as a flexible open-source evaluation infrastructure that implements the model. These contributions intend to make a step towards lowering the hurdles for conducting retrieval experiments and improving their reproducibility.

**CCS Concepts:** • Information systems → Users and interactive retrieval; Evaluation of retrieval results.

**Additional Key Words and Phrases:** Interactive Multimedia Retrieval, Retrieval Evaluation, Interactive Evaluation, Evaluation System

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## 1 INTRODUCTION

Engaging in experimentation stands as the paramount method for substantiating or refuting hypotheses, thereby pushing the boundaries of human knowledge. Access to precise tools, enabling the formulation, documentation, and reproducibility of experiments, therefore stands as an indispensable element of rigorous scientific inquiry.

While this principle holds true across disciplines, it poses a particularly distinctive challenge in multimedia retrieval and the evaluation of related systems. The particular challenge in this domain manifests in three key aspects: Firstly, multimedia retrieval comes with a diverse set of problems, spanning the straightforward task of locating one or several specific items in a dataset to acquiring aggregations or derivations thereof.

Secondly, multimedia retrieval evaluations can involve both human-in-the-loop (interactive) and automatic, machine-only (non-interactive) settings both for the retrieval process itself [32] and the

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# Analysis Of Retrieval Performance For Selected File

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**Information Systems** Julius T. Tou, 2012-12-06 Ten years ago the first International Symposium on Computer and Information Sciences COINS 63 was held at Northwestern University Since that time computer and information sciences have witnessed a great intensification of research and education The activities in this field have been significantly broadened and enriched During this ten year period we have organized four COINS symposia to provide a forum for promoting communication among scientists engineers and educators in the computer and information science field and to act as a catalyzer for stimulating creative thinking within the community of information processing The COINS 72 symposium which took place in Miami Beach on December 14 16 1972 under the cosponsorship of the U S Army Research Office the Atomic Energy Commission and the University of Florida is the fourth International Symposium on Computer and Information Sciences The theme of this COINS symposium is information systems This theme has been selected for the following reasons Information systems have offered widespread applications in education government industry and science The bulk of research in computer and information science is now geared to the development of improved information systems A major portion of software engineering is concerned with computer software and sophisticated information system design It seems logical that a symposium on information systems should follow the preceding software engineering conference Data Base Selection, Design, and Administration Jon D. Clark, 1980 Essential terms and concepts Data base design Data base administration System operation Implementation **Papers and Discussions Presented**, 1972 **Documentation Abstracts**, 1999 Search Mechanisms for Large Files Marie-Anne Kamal Neimat, 1981 Proceedings, 1972 **Architecture and Models in Data Base Management Systems** G. M. Nijssen, 1977 **Generalized Data Base Management Systems** University of Michigan. Engineering Summer Conferences, 1973 **Statistical Standards and Studies** Conference of European Statisticians, 1972 **Data Base Management Systems** University of Michigan. Engineering Summer Conferences, 1976 **Datamation**, 1970 Evaluation and Measurement Techniques for Digital Computer Systems Mansford E. Drummond, 1973 Supplies some guidance and information about the basic techniques used in evaluation and measurement of digital computer applications Preface *Dynamic Information and Library Processing* Gerard Salton, 1975 Introducing the new library Mechanized housekeeping Automatic indexing and abstracting Storage and retrieval systems System analysis and evaluation Dynamic information processing **Design of Computer-based Information Systems** University of Michigan. Engineering Summer Conferences, 1972 **Proceedings of International Computer Symposium 1978, December 18-20, 1978, Nankang, Taipei, Republic of China.** --, 1978 **SIGMOD Record**, 1973 **Proceedings of the ... Joint Computer Conference**, 1971 Proceedings of International Computer Symposium, 1978 **Proceedings 1997 Symposium on Document Image Understanding Technology** David Doermann, 1997 **Joint Computer Conference**, 1970

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