

# Dynamic Exploratory Search for the IR Anthology

**IR-Anthology.** The IR-Anthology currently contains 62846 papers on the study of information retrieval.

## Overview.

Four basic views:

- (1) landing page with an overview of all venues;
- (2) volume pages listing all publications of a venue and year;
- (3) publication pages showing metadata about a given publication;
- (4) author profile pages with their respective publications.

Conferences

Venue	2020+	2019 - 2010	2009 - 2000	1999 - 1990	1989 and older
ADCS	21	19 18 17 16 15 14 13 12	04 02		
AIRS	21	19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04		
CCIR	22 21 20 19 18 17				
CERI		18 16			
CHIR/HCIIR	23 22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98 97 96 95 94 93 92		
CIKM	22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98 97 96 95 94 93 92 91 90	89 88 87 86 85 84 83 82 81 80 79 78	73 71
CIVR		10 09 08 07 06 05 04 03 02			
CLEF	22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00			
CORIA	21	19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04		
DESIRES	21	18			
DIR	21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00			
ECIR	23 22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98 97		
FDIA		19 17 15			
FIRE	22 21 20 19 18 17 16 15 14 13 12 11				
ICTIR	22 21 20 19 18 17 16 15 14 13 12 11	09 07			
IRFC		14 13 12 11 10			
ISMIR	21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00			
ICMR	22 21 20 19 18 17 16 15 14 13 12 11 10	08 07 06 05 04 03			
NTCIR	20 19 18 17 16 15 14 13 12 11 10	08 07 05 04 02 01 99			
RIAQ/OAIR		13 10	07 04 00	97 94 91 88 85	
SIGIR	22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98 97 96 95 94 93 92 91 90	89 88 87 86 85 84 83 82 81 80 79 78	73 71
SPIRE	22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98		
TREC	21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98 97 96 95 94 93 92		
WSDM	23 22 21 20 19 18 17 16 15 14 13 12 11 10	09 08			
WWW	22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01			
Workshops	22 21 20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 97 96		
Shared Tasks	20 19 18 17 16 15 14 13 12 11 10	09 08 07 06 05 04 03 02 01 00	99 98 97		
Retreats	19	13			
Societies	ACM SIGIR   ACM SIGIR Tokyo   ARIA   ASSIS&T   BCS IRSG   CLEF Initiative   GI FGIR   HTAI   IRSI   ISMIR   MIR (archived)   IPECCAMP   ROMIR   WGI				
Schools	ASIRF   EARIA   ESSIR   RUSSIR				
Social Media	SIG-IRList   JISC   CLEF   NTCIR   InformationRetrieval   r/muicir				

<https://ir.webis.de>

## Closed-World Search.

To allow users to easily search the IR Anthology, we provide a dedicated search index accessible via our search engine ChatNoir.

Search results 1-10 for "exploratory search" Total results: 948 (retrieved in 1,373 ms)

doi.org/10.1145/2663714.2668049  
**Supporting Exploratory Search Through Interaction Modeling**  
 Athukorala · CIKM · 2014

Our second step involved implementing an IR system that can support **exploratory search** using existing techniques. In **exploratory search**, users have no clear goals.

doi.org/10.1145/3269206.3269297  
**How Consistent is Relevance Feedback in Exploratory Search?**  
 Medlar and Glowacka · CIKM · 2018

For **exploratory search**, however, the distribution of consistency scores shows considerable inconsistency. **Search** activities are broadly categorised into lookup and **exploratory search** tasks.

doi.org/10.1145/1390334.1390389  
**Algorithmic mediation for collaborative exploratory search**  
 Pickens et al. · SIGIR · 2008

To test our ideas about algorithmic mediation for collaborative **exploratory search**, we implemented a proof of concept system built for video **search**.

<https://ir.chatnoir.eu/>

## Community Introspection.

To enable community introspection through exploratory and quantitative publication analysis, we now also provide a dynamic exploratory search engine.

IR Anthology **Analytics**

Facets (15) Publications (33530) Authors (43890) Search Engines (9) Social Media Platforms (8)

Scope: 0

/ Search Total 15 results

Conferences (22)	33530
Publications (33530)	33530
Years (46)	33530
Authors (43890)	33479
IR topics (6)	4785
Social Media Platforms (8)	3354
Search Engines (9)	3328
Knowledge Bases (6)	2319

Our system design is driven by the assumption that users of the faceted search engine are not merely interested in relevant documents but, beyond that and foremost, in the **analytical statements** that can be made about them.

<https://ir-analytics.web.webis.de>

## Example Query 1: Active Researchers.

Three screenshots showing how to construct a search query that reveals the authors (right) who published at any of seven selected IR conferences (middle) in two recent years (left), ordered by number of publications.

Years (2/46) Conferences (7/16) Authors (6247) Publications (2078)

Scope: 0 Scope: -1 Scope: -2

Year	Count	Conference	Count	Author	Count
2021	12	1 cikm	3346	6 Maarten de Rijke	33
2020	14	2 sigirconf	3045	4 Ji-Rong Wen	24
2019		2 wsdm	1543	7 Jimmy Lin	22
2018		2 ecir	1255	6 Min Zhang 0006	22
2017		2 chiir	405	6 Yiqun Liu 0001	22
2016		2 ictir	400	3 Xiangnan He 0001	20
2015		1 desires	80	3 Xiuqiang He	20
2014		2 ccir		6 Shaoping Ma	19
2013		2 clef		5 Yongfeng Zhang	19
2012		2 mir		7 Hamed Zamani	18

## Example Query 2: Salton Number.

Collage of screenshots illustrating the co-author graph of Gerard Salton which can be obtained by a series of Authors facets with a scope of -1. The facet views show the result of the first four Authors facets (from top left to bottom right).



Authors (1/43890) Authors (10) Authors (288) Authors (2800) Authors (13122) Authors (26107)

Authors (32232) Authors (33783) Authors (34227) Authors (34341) Authors (34372) Authors (34390)

Scope: -1

/ Authors Total 1/43890 results / Authors Total 288 results / Authors Total 2800 results

Gerard Salton	Count	Author	Count	Author	Count
10	1	Philip S. Yu	210	14	Maarten de Rijke 287
	1	Jimmy Lin	181	6	Jiawei Han 0001 243
	1	W. Bruce Croft	181	1	Xueqi Cheng 228
	1	Yi Chang 0001	152	7	Philip S. Yu 210
James Allan	134	1	Mark Sanderson 146	2	Henning Müller 190
Ellen M. Voorhees	72	5	James Allan 134	54	W. Bruce Croft 181
Clement T. Yu	57	2	Charles L. A. Clarke 122	28	Jimmy Lin 181
Chris Buckley	25	1	Nick Craswell 116	2	Min Zhang 0006 180
Amit Singhal 0001	20	1	Jaap Kamps 108	1	Yong Yu 0001 164