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INFO 244, Spring 2025

Exercise 1 - Introduction to Dialog

February 17, 2025

Exercise #1 Search Questions

Question No. 1

- It has been said that artificial intelligence (“AI”) offers tremendous promise, but that promise is accompanied by risks such as discrimination and other unintended consequences. Lawmakers worldwide have been making concerted efforts to regulate AI in recent years. Find one trade journal article published last year that summarizes efforts to regulate AI globally (not just in the United States). Please answer the following questions:

- Provide the bibliographic information for the item used to answer question (for our exercises, “bibliographic information” is the information presented at the top of the item record, including the publication information (i.e., author, article title, journal, date, etc.).

Author: Not named

Article Title: Adapting to AI regulations in the U.S. and Europe: Impacts on CIOs and global enterprises

Journal: CIO

Date: July 18, 2024

- For each country; region; federal, state, and local legislatures; and governmental agency mentioned, what, in brief, do the proposed regulations aim to do?
 - The EU: The EU AI Act bans AI applications like predictive policing, untargeted scraping of internet facial images, and use of biometric information systems by law enforcement, and requires EU member states to document and monitor high-risk AI systems and enforce regulations.
 - United Kingdom: The UK published its intent to create an AI regulatory framework in February 2024.

- United States: The Senate began public hearings and private consultations to map out AI regulations in September 2023. Potential topics include the regulation of the use of AI in political advertising and protections against the replication of personal visual and voice likenesses by generative AI. The National Institute of Standards and Technology has produced an AI Risk Management Framework. At the federal level, the Federal Aviation Administration Reauthorization Act and the National AI Initiative Act regulate AI to some degree, as do California's CCPA privacy regulations and Illinois' Biometric Information Privacy Act at the state level, although my source did not specify the details of how these laws constrain AI usage.
 - Within the United States, which states are identified as having proposed AI regulations?
 - California and Illinois
- Review the subject indexing for the item record you selected and describe the implications of the indexing for searchers.
 - Did your search terms appear in indexed terms?
 - Yes, "Self regulation," "Regulations," and "Generative artificial intelligence" were indexed as subjects, and "AI" and "regulations" appeared in the title, abstract, and full text. This should make the record easy to find for searchers seeking articles about the regulation of AI.

Search Answer Template

S4	((("artificial intelligence" or AI)) AND ((regulat* OR law OR legal)) AND ((global or world*)) and (pd(20150101-20251231)) and (stype.exact("Trade Journals")))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	39483*
S5	((("artificial intelligence" or AI)) AND ((regulat* OR law OR legal)) AND ((global or world*)) and	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	23803*

	(pd(20150101-20251231) and (pd(20200101-20251231))) and (stype.exact("Trade Journals"))		
S6	((("artificial intelligence" or AI)) AND ((regulat* OR law OR legal)) AND ((global or world*))) and (pd(20150101-20251231) and (pd(20200101-20251231))) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	23803*
S7	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND ((global or world*))) and (pd(20150101-20251231)) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	1990°
S8	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND ((global or world*))) and (ftany(yes) and pd(20150101-20251231)) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	1850°
S9	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND LOC("United States" AND "Europe")) and (pd(20150101-20251231)) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	117°
S10	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND LOC("United States" AND "Europe")) and (pd(20150101-20251231) and (pd(20200101-20251231))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	46°

	) and (stype.exact("Trade Journals"))		
S11	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND LOC("United States" AND "Europe" AND "New York")) and (pd(20150101-20251231)) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	15°
S12	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND LOC("United States" AND "Europe") AND state) and (pd(20150101-20251231)) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	117°
S13	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND LOC("United States" AND "Europe") AND state) and (pd(20150101-20251231)) and (pd(20200101-20251231))) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	46°
S14	(SU(("artificial intelligence" or AI)) AND SU((regulat* OR law OR legal)) AND LOC("United States" AND "Europe") AND California) and (pd(20150101-20251231)) and (stype.exact("Trade Journals"))	ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database™, Gale Group PROMT®, Gale Group Trade & Industry Database™	28°

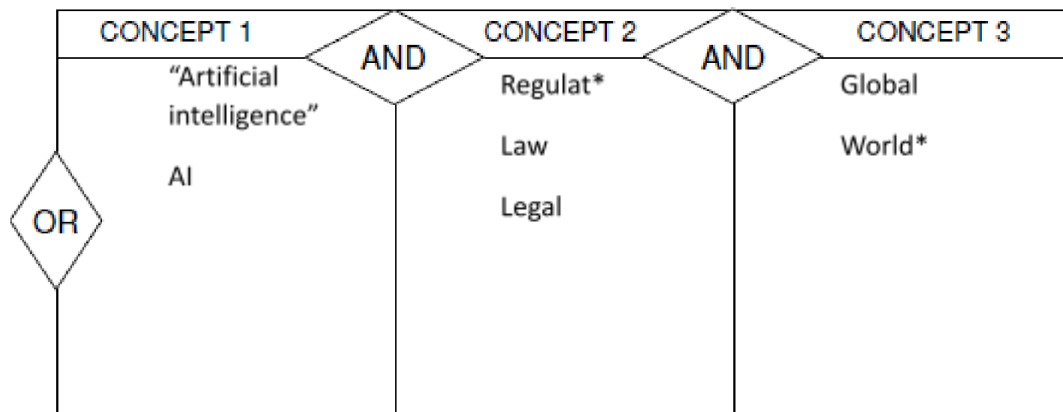
My first three searches are excluded from the above chart since they were identical with S4, and I'm not sure why Dialog logged them as separate searches. The same thing happened with S5 and S6.

A. Search Planning:

Question Number: __1__

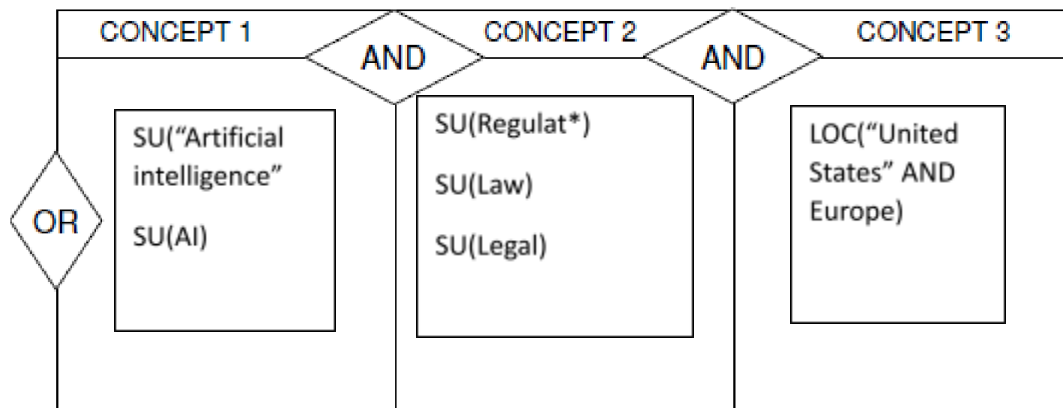
Search Plan

Important Ideas:



Revised Plan

Important Ideas:



Database (e.g., specific or all databases):

ABI/INFORM® Professional Advanced, Business & Industry, Gale Group Computer Database, Gale Group PROMT®, Gale Group Trade & Industry Database

Fields or other limiters (author, dates, document types, etc.):

2015-2025, limit source type to trade journals

Contingency planning (what to do if I retrieve too little or too much?):

Too little: widen to whole Telecommunications & Computing collection or all databases.

Too much: filter by country or add subject filters

B. Evaluation of Search Results:

My initial search query returned 39483 results, which was far too many. I did find a highly relevant article on the front page entitled “ARTIFICIAL INTELLIGENCE AND THE FOG OF INNOVATION: A DEEP-DIVE ON GOVERNANCE AND THE LIABILITY OF AUTONOMOUS SYSTEMS,” with full text, but it dated back to 2019 and did not mention several more recent regulations I am aware of, so I decided I needed to filter dates further, from 2020-2025 (at this point I hadn’t realized the article needed to be from 2024). I also added subject heading codes to the first two groups of terms, and filtered to full text only, since the detailed nature of the original question meant a lot of the abstract-only results were not providing the information I needed.

However, the search results still contained a lot of results that only referred to a single country or region, or in which AI was only mentioned as a peripheral issue, and the term “global” didn’t seem to be adding much. I removed the third set of concepts and replaced them with the term LOC(“United States” AND Europe) in order to find articles that addressed at least these two geographical areas, and immediately found a highly relevant article from 2023 that described regulations in many countries, but not any individual US states. I tried adding New York as a location, since it had several hits in the location filter, but this didn’t seem to increase relevance, so I added “state” as an additional term. This got me to a manageable 46 results, but also brought in some results where the term states referred to countries rather than US states.

On the second page of the S13 results, I found another relevant article from 2024, “Global AI regulations: Beyond the U.S. and Europe,” but it only discussed US state regulations in a general way. On a hunch, I replaced the term state with “California” and found a 2024 article in which the abstract mentioned “California’s CCPA privacy regulations and Illinois’ Biometric Information Privacy Act.” Upon rereading the original question, I saw that my article had to be from 2024, so I decided this one would have to be good enough even though it didn’t mention regulations in Asia or in individual EU countries, which I had seen discussed in other articles.

C. Reflection on the Overall Search Experience:

Overall, this was a much messier process than I initially expected. My term “global OR world” did not end up functioning as well I wanted, and I ended up having to use the location field to target regions. I relied on my personal knowledge at various points to try to narrow the results, but this could have introduced some bias, and I’m not sure how well this would work with a subject on which I am less informed. In fact, I didn’t know if California had a law specifically dealing with artificial intelligence, but I knew it

had data privacy laws that were stricter than those in other states, so I added California as a term on a hunch, to find results that dealt with specific US state laws. The article I ended up choosing was also not quite as detailed on individual laws as I had hoped to find. I think if I were helping an actual patron or client with this question, I would use more than one source, since I found several others that went into more detail on other countries, but the one I ultimately selected was the only one that addressed both state and federal laws within the US in addition to other countries.

Also, I think relying on trade journals was somewhat limiting. Many trade journals seem to publish shorter, less detailed articles compared to academic journals, and may only focus on one specific industry. However, I do think my choice of databases was apt, as expanding the search to the full set of databases did not add many relevant results. I decided which databases to use based on the brief summaries provided in Dialog's page on Telecommunications & Computing.

Finally, I realized belatedly that some of the filters I added using the right-side menus in Advanced Search mode, like for dates between 2020-2025 and for full-text results, did not "stick" between searches when I added or changed terms. In the future I might try to add these types of filters directly in Command Line mode. Of course, if I had read the question more thoroughly, I could have avoided the date issue by initially filtering only to results from 2024.