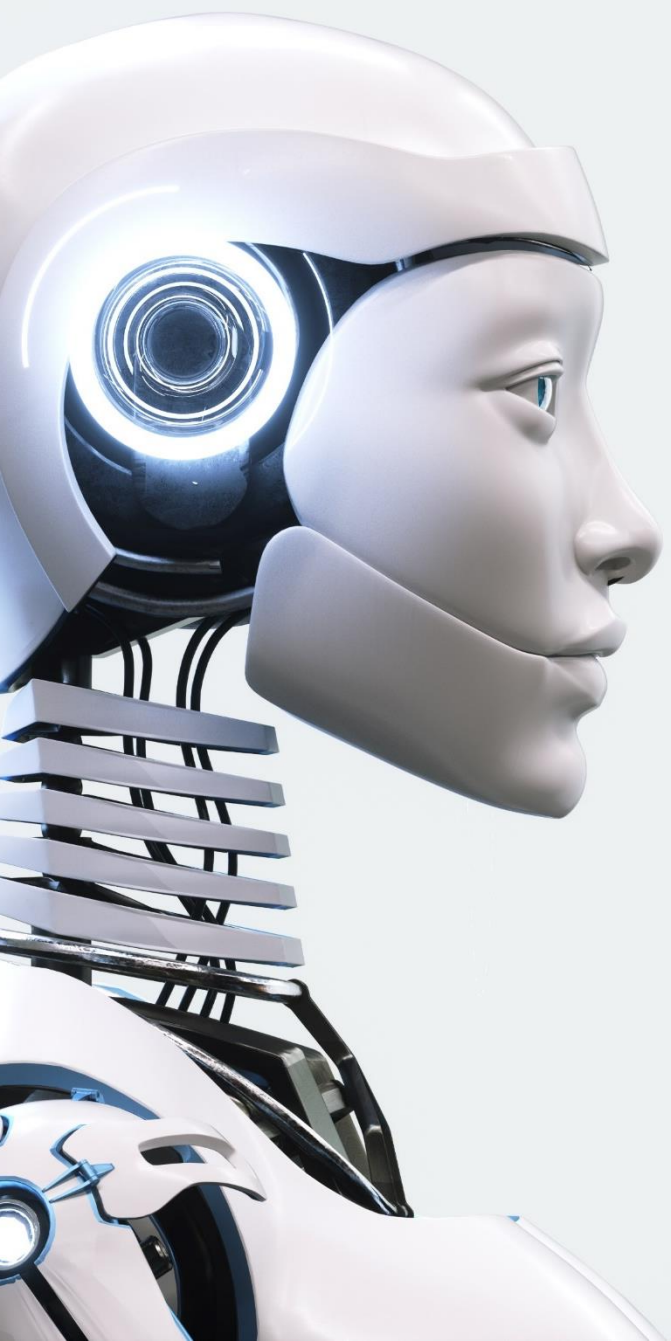




Primo AI Research Assistant

Olivia Edmonds
(Academic Liaison Librarian)



“

Always Check

your assignment brief, and with your lecturer to confirm if use of AI is permitted.

If permitted, demonstrate good academic practice by...

- Using AI tools effectively, critically, ethically and within permitted guidelines.
- Being aware of limitations, e.g. accountability, inaccuracy, bias, unintentional plagiarism, over reliance.
- Evaluating all generated text critically.
- Acknowledging all AI content.
- Completing the AI sections in the [library infoskills units](#).

Online Infoskills – Recommendations.

- [Infoskills Moodle site : Referencing - The Mechanics | Home](#)
- [Infoskills Moodle site : Advanced Searching | Home](#) (Includes Using Google Scholar and External databases, Literature Review and Introduction to AI)
- [Infoskills Moodle site : Searching for information | Home](#) (includes searching journals and databases)
- [Infoskills Moodle site : Evaluating information | Home](#)

- 1 What it is.
- 2 What it searches.
- 3 Where to find it..
- 4 How it works.
- 5 What a search result looks like.
- 6 Uses and limitations.



What is the new Primo Research Tool?

“

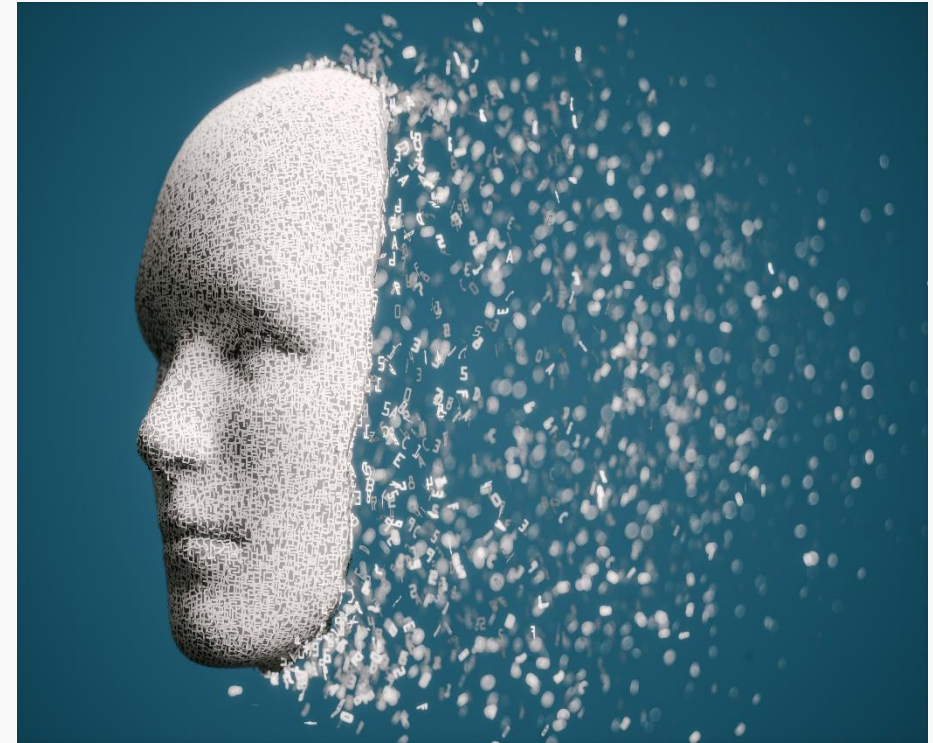
Primo Research Assistant provides immediate answers to natural language queries and offers visibility into sources and references, so libraries can empower users with a seamless discovery experience, grounded in trusted content, and advance institutional scholarly goals. ”

[Ex-Libris, 2024](#)



In simple terms...

- Enables interaction and searching of the library catalogue using everyday language.
- Provides an AI generated overview (with references), based on the top five abstracts from the results it finds in Primo.
- Links to the full text (where available).
- Links to a full result list in the library catalogue.
- Provides search suggestions to help the user expand their topic and learn more about it.
- Non-English search and answer support.



What it searches...

It searches across the Central Discovery Index (CDI) in Primo.

- The CDI contains over 5 billion records and different resource types from thousands of publishers, aggregators, and repositories available in Primo.

It does not currently search the following:

- News content (newspaper articles, newsletters, text resources).
- Collections that are not marked as 'free for search' in the CDI collection list.
- **Any collections** from the following content providers - APA, DataCite, Elsevier, JSTOR, Kogan Page and Conde Nas.



UWTSD Databases currently excluded...

- ❖ CIS/ Environmental Management
- ❖ BoB
- ❖ Digimap
- ❖ Digital Theatre Plus
- ❖ Human Anatomy Atlas/ Visible Body
- ❖ IPA source
- ❖ L'annee philologique
- ❖ Marketline Advantage
- ❖ Policing Insight
- ❖ Thesaurus linguae Latinae
- ❖ WGSN



Where to find it...

Main menu bar in library catalogue.

Start new topic.

Search history.

The screenshot shows the Primo Research Assistant interface. A pink arrow points from the text 'Main menu bar in library catalogue.' to the 'Research Assistant BETA' link in the top navigation bar. Another pink arrow points from 'Start new topic.' to the 'Start a new topic' button in the left sidebar. A third pink arrow points from 'Search history.' to the list of search queries in the left sidebar. A fourth pink arrow points from the text 'Search' to the search input field in the main content area. The interface includes a top navigation bar with links like 'New Search', 'Online Resource Lists', 'Browse eJournals', 'Database Search', and 'Newspaper Search'. The left sidebar contains a 'Start a new topic' button and a list of search history items. The main content area features a search input field, a list of example questions, and a chat icon in the bottom right corner.

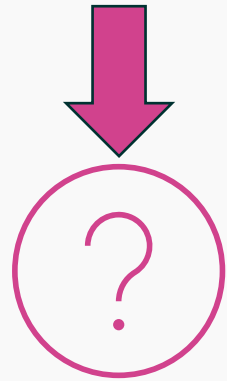
N.B. You must sign into the library to use.

Search

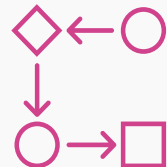
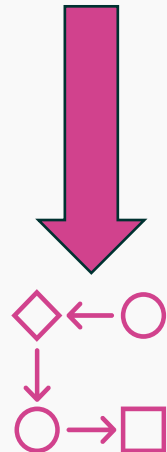
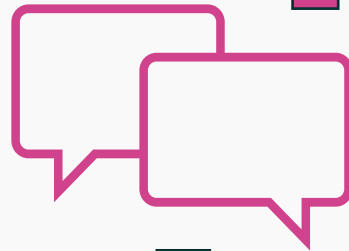
[Library search](#)

How it works

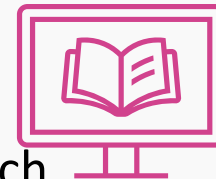
Your question is entered into the search box.



It is sent to the Large Language Model (LLM).

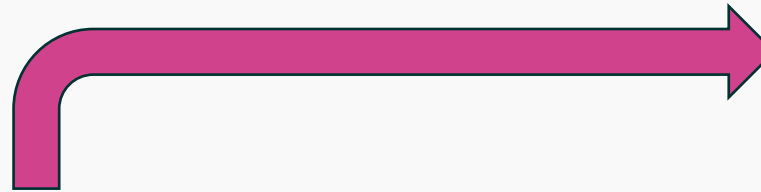
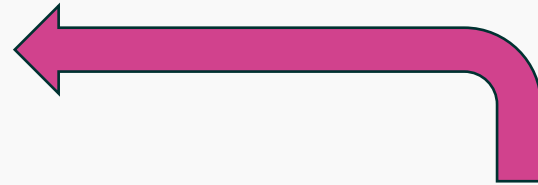


The question is converted into a search string, using the OR Boolean Operator.



The Boolean query is sent to the central Primo library catalogue to retrieve results.

The **top 5 results** are sent to the LLM to create an overview with in-text references **based on the abstracts**.



The AI generated overview and sources are returned in the response.



Search...

Primo Research Assistant BETA

Ask research questions. Explore new topics. Discover credible sources.

How can software design and development be applied to transition an existing company from a manual system to an auto



[Library search](#)



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AI generated overview...

How can software design and development be applied to transition an existing company from a manual system to an automated one? Discuss the implementation decisions involved and the use of Python in this process.

- Searching for relevant resources
- Generating overview for 5 most relevant sources
- Summary loaded in response area

Overview of sources

Transitioning an existing company from a manual system to an automated one involves several critical implementation decisions, particularly in software design and development. The process begins with assessing the current manual workflows and identifying areas where automation can enhance efficiency and accuracy. This assessment is crucial for determining the specific requirements of the new system, which may include data acquisition, processing, and analysis capabilities.

The use of Python in this transition is notable due to its versatility and the rich ecosystem of libraries that facilitate various automation tasks. For instance, Python can be employed to develop a flexible and extensible automation package, such as the PLACE package, which allows for modular organization and customization to meet diverse laboratory needs. This adaptability is essential for ensuring that the automated system aligns with the specific operational requirements of the company [1].

Moreover, the integration of Python scripts within existing software platforms, such as Rhinoceros in shipbuilding, demonstrates how automation can be achieved by leveraging existing tools while enhancing their functionality. This approach allows for the calculation of critical parameters, such as shear forces and bending moments, thereby streamlining the design process [2].

In the context of accounting, the transition to automated systems necessitates careful consideration of software products that can effectively manage financial data. The analysis of various accounting software reveals the importance of selecting solutions that cater to the specific needs of the business, particularly for small enterprises that may struggle with the transition from manual to electronic document storage [3].

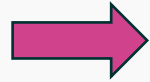
In conclusion, the transition to an automated system requires thoughtful software design and development decisions, with Python serving as a valuable tool for creating adaptable and efficient solutions. The successful implementation of such systems hinges on understanding the unique needs of the organization and selecting appropriate technologies to facilitate this change.

[Research Assistant](#)



Search string

This is a copy of the search created by the AI tool to search for results in the library catalogue.



It includes alternatively phrased versions of your question using **OR** (Boolean Operator) to find more results.

(software design automation transition) **OR**
(manual to automated system implementation) **OR**
(Python in software development for automation) **OR**
(best practices for transitioning to automated systems) **OR** (implementation decisions in software design for automation) **OR** (how to transition from manual systems to automated software solutions) **OR**
(software development strategies for automating existing business processes) **OR**
(implementation of Python in automating manual workflows in companies) **OR**
(steps for converting manual operations to automated systems using software design) **OR**
(best practices for software automation in transitioning businesses from manual to digital) **OR**
(How can software design and development be applied to transition an existing company from a manual system to an automated one? Discuss the implementation decisions involved and the use of Python in this process.)

[Research Assistant](#)



Top 5 Results

Note: Not all the top 5 results may be available via our library.

Results from UWTSD library



1 JOURNAL ARTICLE PLACE Johnson, Jami L et al. 2015	2 JOURNAL ARTICLE ANALYSIS OF SOFTWARE PRODUCTS USED FOR AUTOMATION ... Ponomareva, Tetiana et al. 2021	3 JOURNAL ARTICLE Application of a General Purpose Software Package on Shear Forces... Zamarin, Albert et al. 2022	4 JOURNAL ARTICLE From low-level programming to full-fledged industrial model-based... Di Salle, Amleto et al. 2023	5 CONFERENCE PROCEEDING Transitioning Manual System Test Suites to Automated Testing: An... Feldt, Robert et al. 2013	 View more results from your library search
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Further related question prompts.



Related research questions

- ? What are the best practices for transitioning from manual systems to automated systems in businesses?
- ? How can Python be utilized in the automation of business processes during a system transition?
- ? What implementation challenges do companies face when moving from manual to automated systems, and how can they be addressed?
- ? What role does software design play in the successful automation of existing manual processes in organizations?



Accessing sources

1 JOURNAL ARTICLE PLACE Johnson, Jami L et al. 2015	2 JOURNAL ARTICLE ANALYSIS OF SOFTWARE PRODUCTS USED FOR AUTOMATION OF ACCOUNTING ... Ponomareva, Tetiana et al. 2021	3 JOURNAL ARTICLE Application of a General Purpose Software Package on Shear Forces and Bending... Zamarin, Albert et al. 2022	4 JOURNAL ARTICLE From low-level programming to full-fledged industrial model-based... Di Salle, Amleto et al. 2023	5 CONFERENCE PROCEEDING Transitioning Manual System Test Suites to Automated Testing: An Industrial Cas... Feldt, Robert et al. 2013	 View more results from your library search
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Transitioning Manual System Test Suites to Automated Testing: An Industrial Case Study

Feldt, Robert; Olsson, Helena H.; Alegroth, Emil. 2013 IEEE Sixth International Conference on Software Testing, Verification and Validation. 2013.

Abstract:

Visual GUI testing (VGT) is an emerging technique that provides software companies with the capability to automate previously time-consuming, tedious, and fault prone manual system and acceptance tests. Previous work on VGT has shown that the technique is industrially applicable, but has not addressed the real-world applicability of the technique when used by practitioners on industrial grade systems. This paper presents a case study performed during an industrial project with the goal to transition from manual to automated system testing using VGT. Results of the study show that the VGT transition was successful and that VGT could be applie...

[Read more...](#)

[Full Text Online](#)

[More Details and Request Options](#)



Library results (with filters)

Tip:

- Open up in the Advanced Search view and explore some of the suggested keywords.
- Try subject searching or title searching, along with date and further subject filters.
- Explore further and narrow down results.

Further results

The screenshot displays a library search interface. At the top, there are tabs for 'SEARCH CRITERIA' and 'BARCODE SEARCH'. Below these, the 'Search Scope' is set to 'Search eResources'. The 'Search Filters' section includes a dropdown for 'Any field' and a text input for 'contains (software design automation transition) OR (manual to automa'. To the right, there are filters for 'Material Type' (set to 'All items'), 'Language' (set to 'Any language'), 'Start Date' (with Day, Month, and Start Year dropdowns), and 'End Date' (with Day, Month, and End Year dropdowns). At the bottom of the search criteria section, there are buttons for '+ ADD A NEW LINE' and 'CLEAR'. Below the search criteria, a summary of the search query is shown: 'Any field contains (software design automation transition) OR (manual to automated system implementation) OR ... AND Any field contains Enter a search term'. A green 'SEARCH' button is located to the right of the summary. Below the search criteria, there is a section for 'Active filters' with a list of filters: 'Full Text Online', 'Computer Software', 'Design', 'Information Storage And Retrieval ...', 'Management Information Systems', and 'Methodology'. To the right of the active filters, there is a section for '0 selected' and 'PAGE 1 1-50 of 964 Results'. Below this, there is a 'Save query' button and a 'Personalize' toggle. The main results section shows a list of results, with the first result being an article titled 'Macromolecular structure determination using X-rays, neutrons and electrons: recent developments in Phenix'. The article is by Liebschner, Dorothee; Afonine, Pavel V.; Baker, Matthew L.; Bunkóczi, Gábor; Chen, Vincent B.; Croll, Tristan I.; Hintze, Bradley; Hung, Li-Wei; Jain, Swati; McCoy, Airlie J.; Moriarty, Nigel W.; Oeffner, Robert D.; Poon, Billy K.; Prisant, Michael G.; Read, Randy J.; Richardson, Jane S.; Richardson, David C.; Sammito, Massimo D.; Sobolev, Oleg V.; Stockwell, Duncan H.; Terwilliger, Thomas C.; Urzhumtsev, Alexander G.; Videau, Elizabeth L.; Williams, Christopher I.

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REFWORKS



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PERMALINK



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Links

This item in WorldCat [WorldCat](#) >

Need More Link



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Good to know...

- It does not use its own training data, so minimises the risk of hallucinations.
- Unlike other chat boxes, such as ChatGPT, you cannot continue a conversation with it. Each query is independent.
- It does retain your search history, so you can return to it at a later date.
- It is a great starting point for research, especially if unsure where to begin.
- Can provide ideas for alternative keywords searches.
- Related research questions can help narrow down or expand research question.



Limitations

Certain requests or queries however are currently unavailable:

- Requests for materials of a particular type, e.g. *"give me peer reviewed articles on x.y.z"*
- Requests for materials from a certain time period, e.g. *"give the most recent information on climate change"*
- Follow up questions are not supported. Each question stands alone, and all relevant information needs to be asked in each.

You will still need to perform your own detailed search to ensure a comprehensive search of the literature.



Useful Links.

- [Ex Libris Knowledge Centre: Getting started with Primo Research Assistant.](#)
- [Artificial Intelligence Blog Series: Meet Primo Research Assistant.](#)



Questions



A word cloud is displayed on a tablet screen, which is resting on a wooden surface. The word 'assistance' is the largest and most prominent, written in a bold, brown, sans-serif font. Other large words include 'help' in a similar font, 'aid' in a bold, black, sans-serif font, and 'support' in a bold, black, sans-serif font. Smaller words are scattered around, including 'work', 'person', 'hand', 'helping', 'assisting', 'someone', 'gives', 'reinforcement', 'suppor', 'human', 'backing', 'offering', 'action', 'good', 'act', 'protect', 'encouragement', 'lives', 'another', 'rank', 'alleviate', 'resources', 'schemes', 'kindness', 'assists', 'money', 'favour', 'relief', 'succour', 'subordinate', 'maintain', 'information', 'employers', 'intervention', 'give', 'suffering', 'dignity', 'abundance', 'supplied', 'turn', 'completed', 'helping', 'assisting', 'someone', 'gives', 'reinforcement', 'suppor', 'human', 'backing', 'offering', 'action', 'good', 'act', 'protect', 'encouragement', 'lives', 'another', 'rank', 'alleviate', 'resources', 'schemes', 'kindness', 'assists', 'money', 'favour', 'relief', 'succour', 'subordinate', 'maintain', 'information', 'employers', 'intervention', 'give', 'suffering', 'dignity', 'abundance', 'supplied', 'turn', 'completed'. The words are in various colors, including brown, black, and gold. In the background, a white plate with several round, golden-brown cookies is visible.

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[Link to Form](#)

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If you have 5 minutes, please scan the QR code and fill out our feedback form.



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