Iris.Al – tekoälypohjainen tiedonhaun assistentti

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TerkkoLib @ Terkko Health Hub

Helsingin yliopiston kirjasto HULib

https://www.terkko.helsinki.fi/irisai

Your Al Science Assistant

Let Iris.ai semi-automate the drudgery part of your research process



TechCrunch DISRUPT

2017 Top 10 Most Innovative Company in Artificial Intelligence

2016 London Startup Battlefield Contestant









The problem today

More than **3000 research papers** are published daily. Half of them are read only by a handful of people.

Science has already uncovered **an abundance of new insights** which researchers are not surfacing well enough - yet.

So we're building an Al to help R&D.

Challenge with the current research tools

Finding the knowledge that combined provides an answer



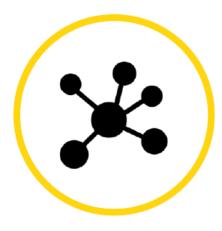
Limiting keywords

restricts you to what you know already



Endless result lists

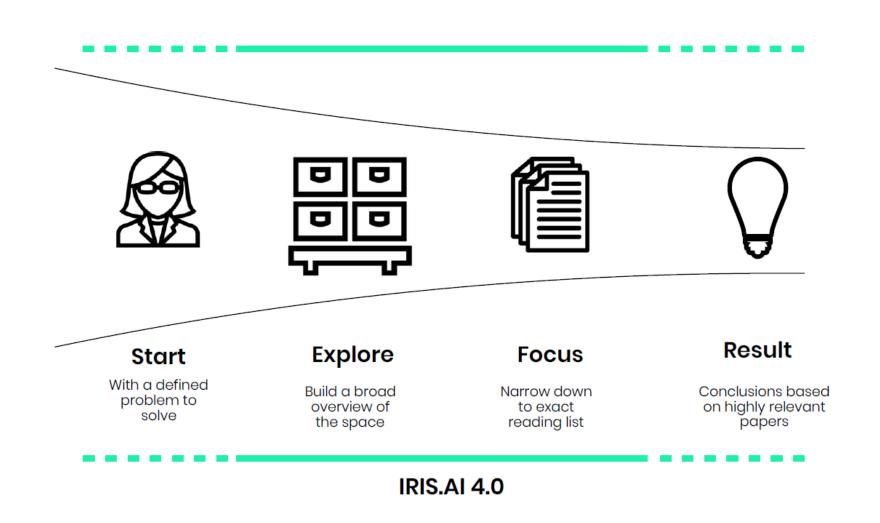
takes forever to browse



Biased citations

skews your results on popularity

Iris.ai works as your personal assistant



Iris.ai works with scientific text content

System ready to go

Iris.ai comes with access to

>127 million Open Access papers

via <u>core.ac.uk</u>



Connect additional databases

Paid journals via your credentials

Internal research documentation

Patent databases

Trade magazines with API access

... or other ideas? Ask!

7 hours with the Exploration Tool

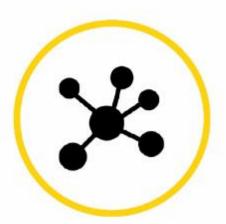
Bypass limiting keywords



Remove biases from search



Build connections across disciplines

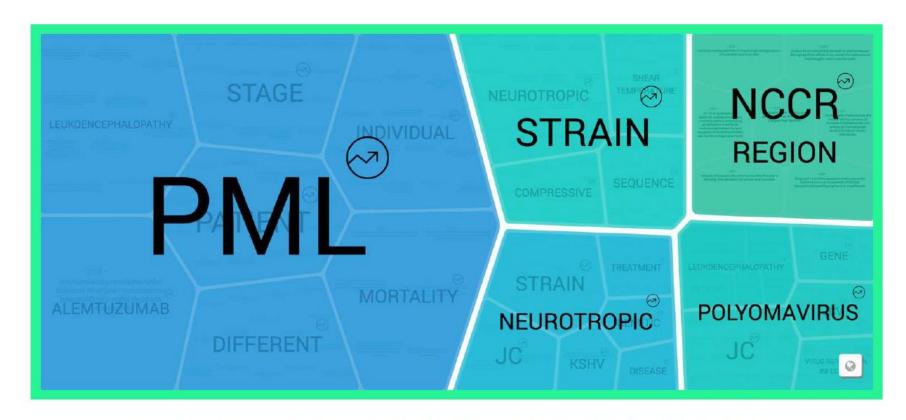


End result: 15-20 maps covering thousands documents, and a new overview of all fields.

How to write a problem statement

- Draft a description in 300-500 words in English
- Include the background of the problem, clear research questions and a description of your goals
- Explain specific concepts and abbreviations as you would explain to a friend
- If certain concepts don't get enough weight, go back and add more background. Try again.

7 hours with the Iris.ai Exploration Tool



Input your own problem statement to navigate the visual interface.

End result: 15-20 maps covering thousands documents, and a new overview of your problem area.

CLOSE X

58%

I've found this paper for you in: heritage > natural

- 2008 -

Approaches to Semantic Markup for Natural Heritage

Cui, Hong



★ Bookmark / Full text link Find related papers

Abstract

The theme of this paper is the application of automated semantic markup techniques on natural heritage literature to address information needs of taxonomists. Two machine learning based techniques (supervised and unsupervised machine learning) are discussed and compared on a real world corpus. A prototype application that supports batch and online modes of converting free text documents to XML format is described

Relevance:

Details

Journal Title:

Identifiers:

oai:www.ideals.illinois.edu:2142/15094

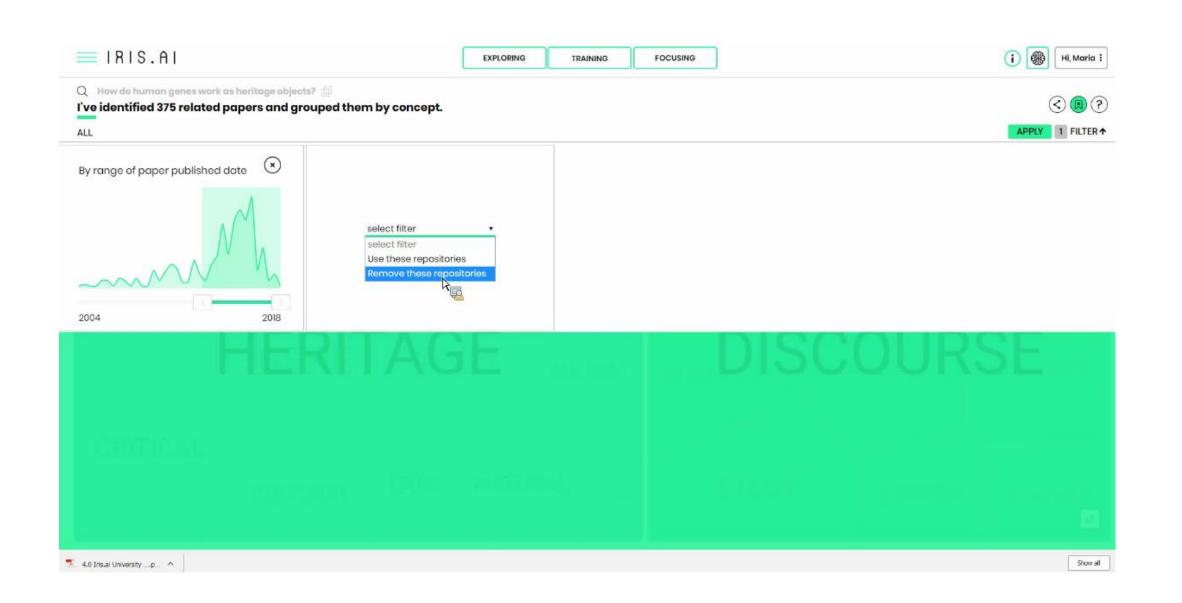
Publisher:

LCC Subject Category:

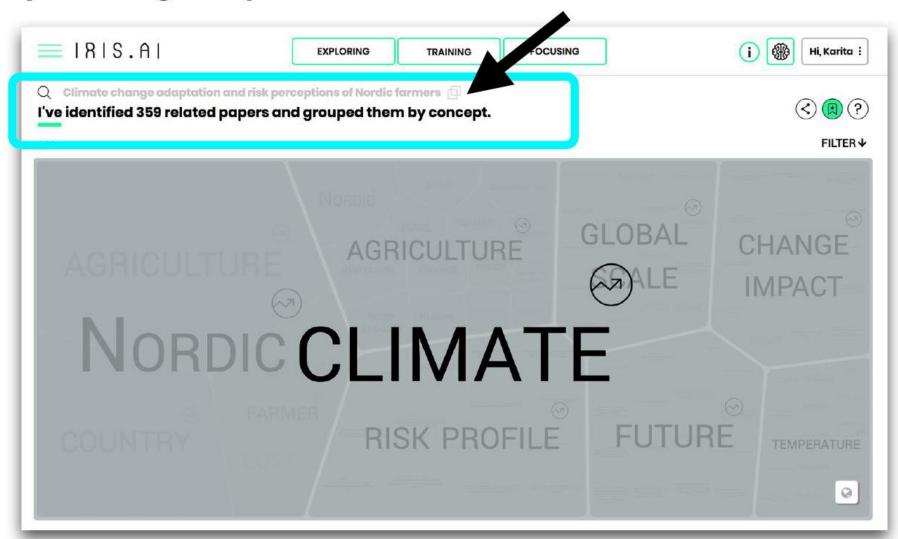
Language of fulltext:

English

IS THIS PAPER RELEVANT TO YOUR RESEARCH?



View your original problem statement

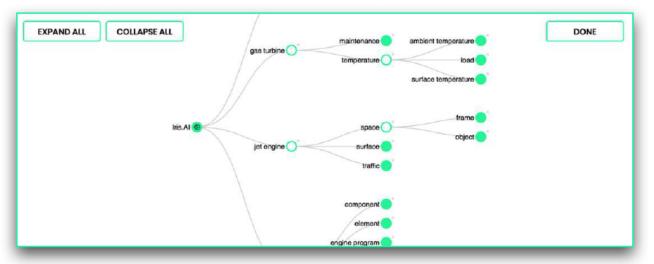


Hierarchy Editor

To edit the structure, insert concepts-editing to the map URL



- Click "Expand All" button to see all the concepts
- Click the circle, drag and rearrange the concepts to change their relation to
 - other concepts
- Choose alternative
 words for each
 concept by clicking
 concept name

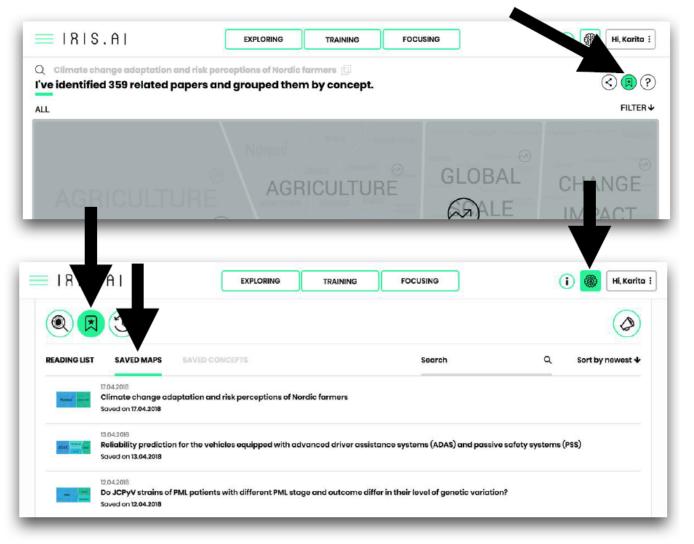


Delete concepts by clicking X

Bookmarking maps

IRIS.AI

- 1) Click on the bookmark to save the map
- 2) Click brain icon to see dashboard
- 3) Go to Bookmarks
- 4) Open tab "Saved Maps"



Search history & dashboard

IRIS.AI

 On the dashboard, click history icon

2) Click "Show details +"

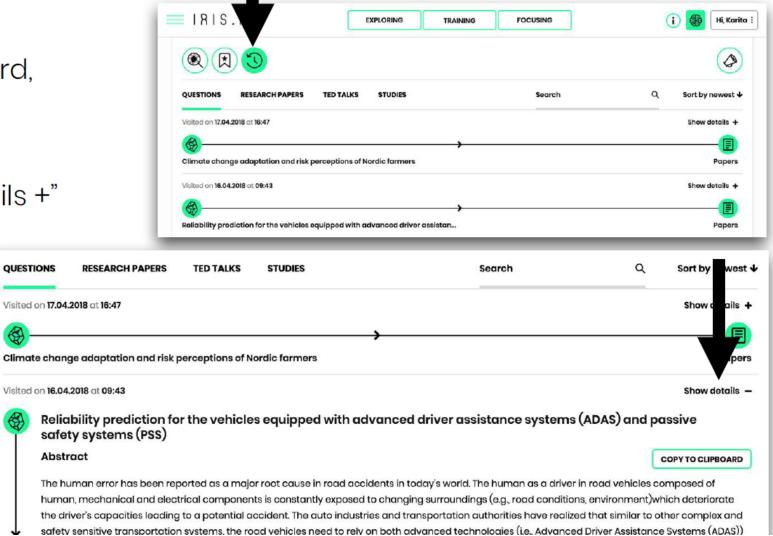
to view the

original

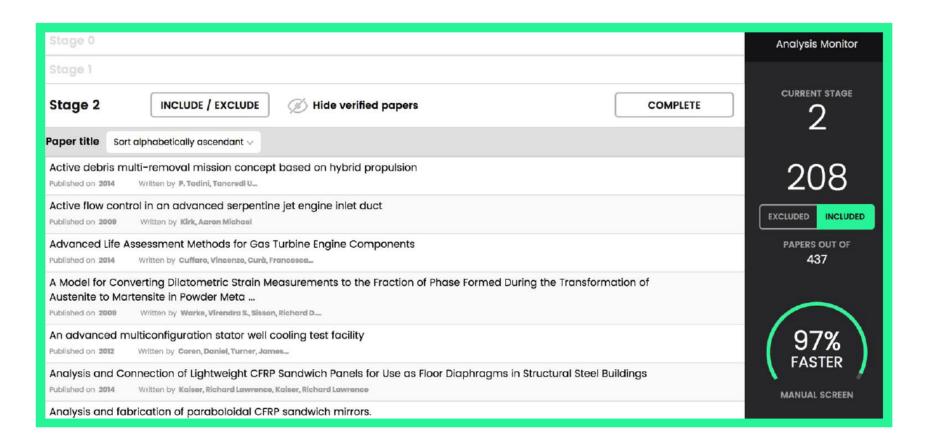
research

question

and problem



7 hours with the Iris.ai Focus Tool



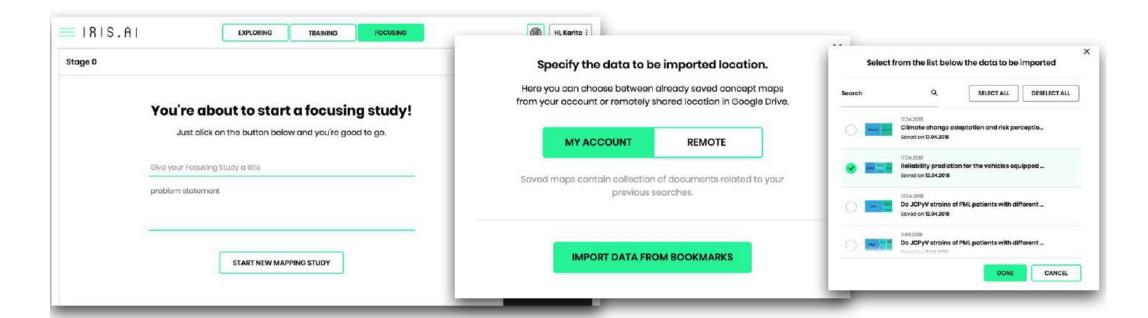
Narrow down from thousands of research documents based on your inclusion/exclusion criteria. End result: A precise reading list of the most relevant documents.

IRIS.AL

Import papers from Exploration maps

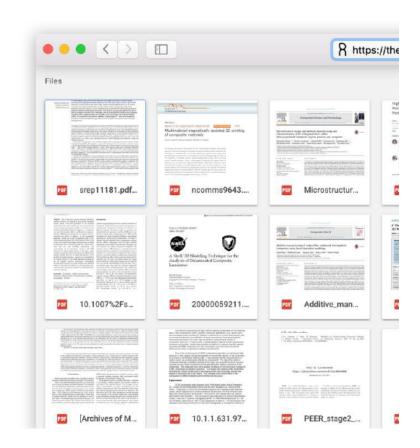
- Write a study title for your own reference
- 2) Click "Start a new mapping study" and "Import data from bookmarks"

3) Select bookmarked maps that you want to import and click "Done"



Import your own data collection

- Choose Remote Import at the start of a Focusing Study
- Create a Google Drive folder for the documents
- Folder should contain PDF or text documents
- Minimum of 30 documents
- Share the folder with noreply@iris.ai
- Create a link with a sharing option:
 - "Anyone with the link can view this file"
- Paste link to Focus tool



Include & Exclude to narrow down the reading list

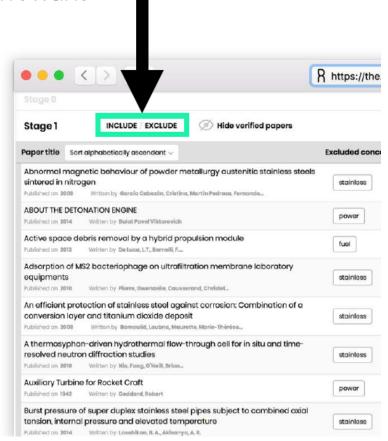
Stage 1:

 Exclude papers based on keywords that you don't want to see in the final result list

- Include only the keywords that are essential
- Start from Highly Ranked words

Stage 2:

- Papers are grouped under different topics
- Exclude & include papers based on topics that aren't and are relevant for you
- Start from Specific & Current topics



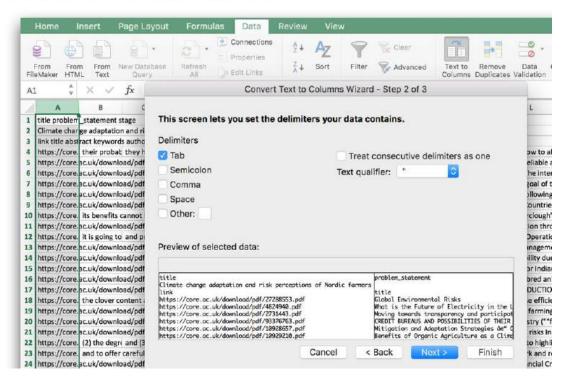
Export results

Stage 3: Export results

- When you've completed the focusing study, you can export the list as a CSV file
- Click "Export" on the Analysis Monitor box and save the file

Clean up the CSV file:

- Select the first column in Excel
- Go to tab "Data"
- Open "Text to Columns" wizard
- Use "Tab" as a delimiter



Other benefits of the Iris.ai tools

Fewer misses

New ideas

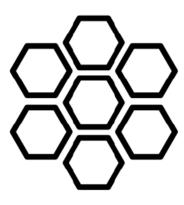
Simple visual navigation



Find relevant knowledge with an increased precision level



Make ground-breaking interdisciplinary discoveries



Explore the papers organised in Al-built categories

Get in touch!

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