



**Your ultimate  
research  
assistant.**

[www.raxter.io](http://www.raxter.io)



User guide:

# Understanding and using RAX for effective research.

# Sign up and get started

RAxTER.io

Sign up

to continue to RAX

First Name \*

Last Name \*

Email \*

Institutional or university email preferred

Password \*

Password must be at least 6 characters long

Sign in instead

NEXT

Copyright © 2018 - Rygbee Inc., Delaware, USA

Home FAQ Privacy Terms

Activate Windows  
Go to Settings to activate Windows.

To start using RAX for your research, you need to sign up on our website (<https://raxter.io>). We recommend you to sign up using your institutional email to get benefits of institutional features:

Access your institute's library anywhere from RAX

Get personalized updates of the material in the library relevant to your current work

RAX will be available for free for individuals if your institute subscribes to our service

RAxTER.io

Verify your email

We've sent a confirmation code to ffilalhi@ask-mail.com

Confirmation code \*

In case you haven't received mail in your inbox, please check your spam or promotions folder.

Verify Later

VERIFY

**Verify your email** using confirmation code sent to your registered email id.

\*in case you don't receive any email please check your spam or promotion folder in your inbox

## Provide few details to make RAX more personalized and useful

Hello Sourish, Welcome to RAX!

We need some information, to give you personalized assistant

1 Institute detail

2 Research interests

1. How would you describe yourself?

It will help us to find right suggestion for you.

☐ Student

☐ Post Doc

☐ Faculty

☐ Other

2. In which institute you are?

So that we can provide you institute-wide features

Select Country

Select Institution

3. Do you have any institute email?

☐ Same as login email

Institute Email

May Be Later

NEXT

Hello Sourish, Welcome to RAX!

We need some information, to give you personalized assistant

1 Institute detail

2 Research interests

What are your research interests?

Be more specific to get better recommendations.

machine learning

artificial intelligence

recurrent neural networks

semantic similarity

Type and then press enter

FINISH

# 1

**Create a project on RAx**

# Create a project on RAX



**Projects** on RAX are like folders to keep your research work organized in one place.

The screenshot shows the RAX interface with a 'Projects' header and an 'ADD PROJECT' button. A modal form titled 'Add a project' is open, containing two input fields: 'Title \*' and 'Description'. Arrows point from the text labels to these fields. At the bottom of the modal are 'CANCEL' and 'CREATE PROJECT' buttons.

**Add a project**

Title \*

Description

CANCEL CREATE PROJECT

Topic/problem you are working on or want to start

Short description about this project

Every project on RAX has two components (more to come in future :)

The screenshot shows the RAX interface for a specific project. The header includes the RAX logo, a 'Projects' dropdown, and the project name 'Document similarity framework'. Below the header, there is a blue folder icon, the project name, and a date range 'Created : Feb 25, 2019 • Updated : Feb 25, 2019'. An 'ADD LITERATURE' button is visible. At the bottom, there are two tabs: 'LITERATURE' (selected) and 'DRAFT'.

Projects - Document similarity ... >

Document similarity framework

Created : Feb 25, 2019 • Updated : Feb 25, 2019

ADD LITERATURE

LITERATURE DRAFT

## 1) Literature

'Literature' is a directory of all the reading material (journal articles, conference papers, survey papers, etc.) that you upload or import into this project.

## 2) Drafts

'Drafts' is a directory of all the documents (observations, ideas, research questions or rough draft of your paper) that you create or import as you study or experiment during the research lifecycle.

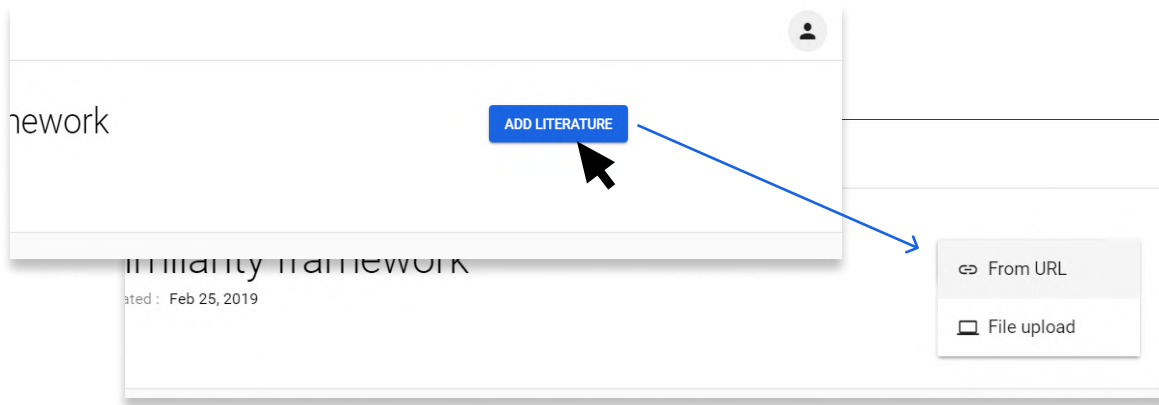


2

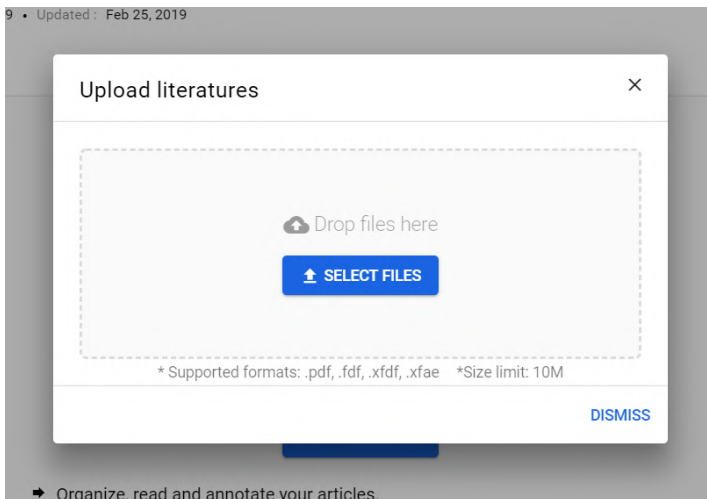
**Add literature into your  
project**

# Add literature into your project

To add any literature into a project, click on “Add Literature” button.

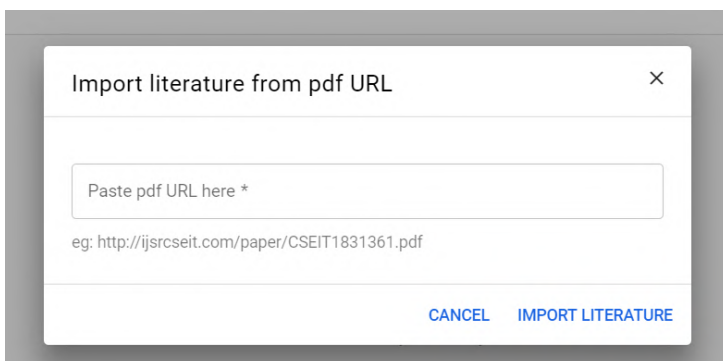


## 1) File upload from your computer



- Total upload size limit for free plan is 20MB
- Supported formats: .pdf, .fdf, .xfdf, .xfae

## 2) From URL ( using PDF URL ending with .pdf )





## 3) Import from google drive ( \*coming soon )


## 4) Import from a reference manager (eg. Mendeley, zotero, citavi) ( \*coming soon )


# Add literature into your project

*'Double click' on a paper or draft to open it.*



Projects ▾ Research Paper Infor... >






## Research Paper Information Extraction

Created : Jul 30, 2018 • Updated : Jul 30, 2018


LITERATURE

DRAFT




Opinion Annotation in On-line Chinese Product Reviews

Updated : Feb 24, 2019 Created : Feb 24, 2019




Personal Sensing: Understanding Mental Health Using Ubiquitous Sensors and Machi...

Updated : Feb 08, 2019 Created : Feb 08, 2019




Critical discourse analysis and cognitive science: new perspectives on immigrati...

Updated : Feb 08, 2019 Created : Feb 08, 2019




Sentiment Analysis of Microblog text based on joint sentiment-topic model

Updated : Feb 05, 2019 Created : Feb 05, 2019




Force-interactive patterns in immigration discourse: A Cognitive Linguistic appr...

Updated : Feb 01, 2019 Created : Feb 01, 2019




Columbia NLP: Sentiment Detection of Sentences and Subjective Phrases in Social ...

Updated : Jan 18, 2019 Created : Jan 18, 2019




Sentiment Analysis and Summarization of Twitter Data


Updated : Jan 17, 2019 Created : Jan 17, 2019





Pitfalls in applying text mining to scientific literature


Updated : Jan 16, 2019 Created : Jan 16, 2019


 ADD PDF








 ADD PDF





 ADD PDF







 ADD PDF



 ADD PDF



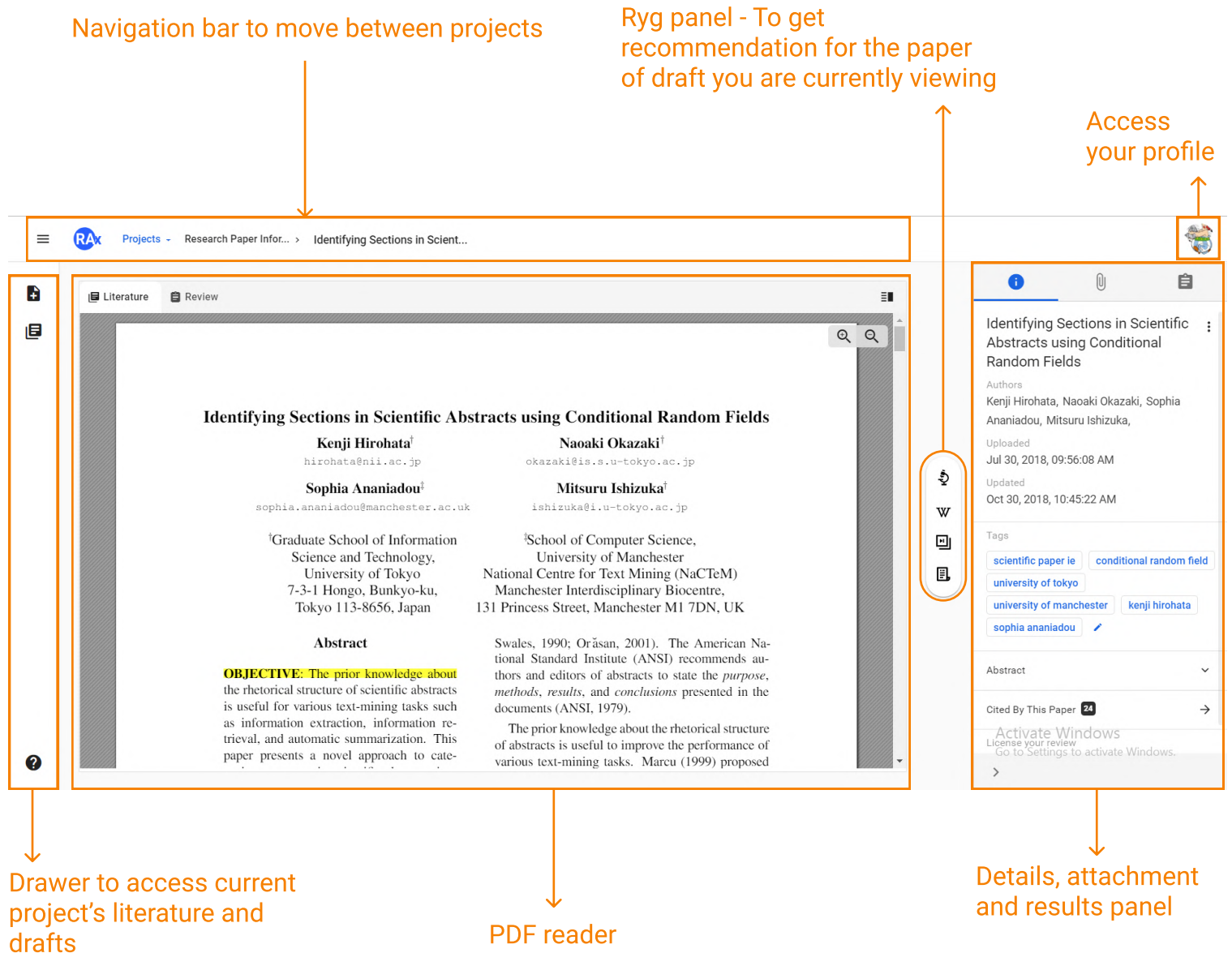


Activate Windows  
Go to Settings to activate Windows.

# 3

## **Basics of RAx web-app interface**

# Basics of RAx web-app interface

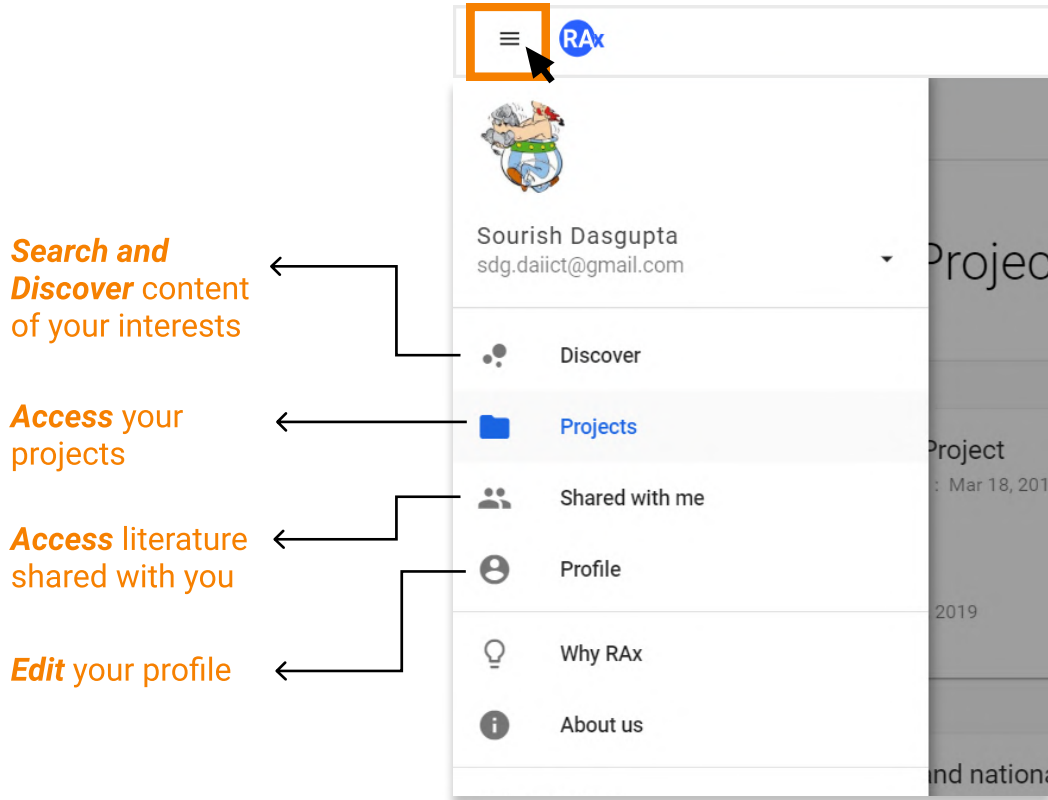


\*Each component is explained in detail in later sections of the manual.

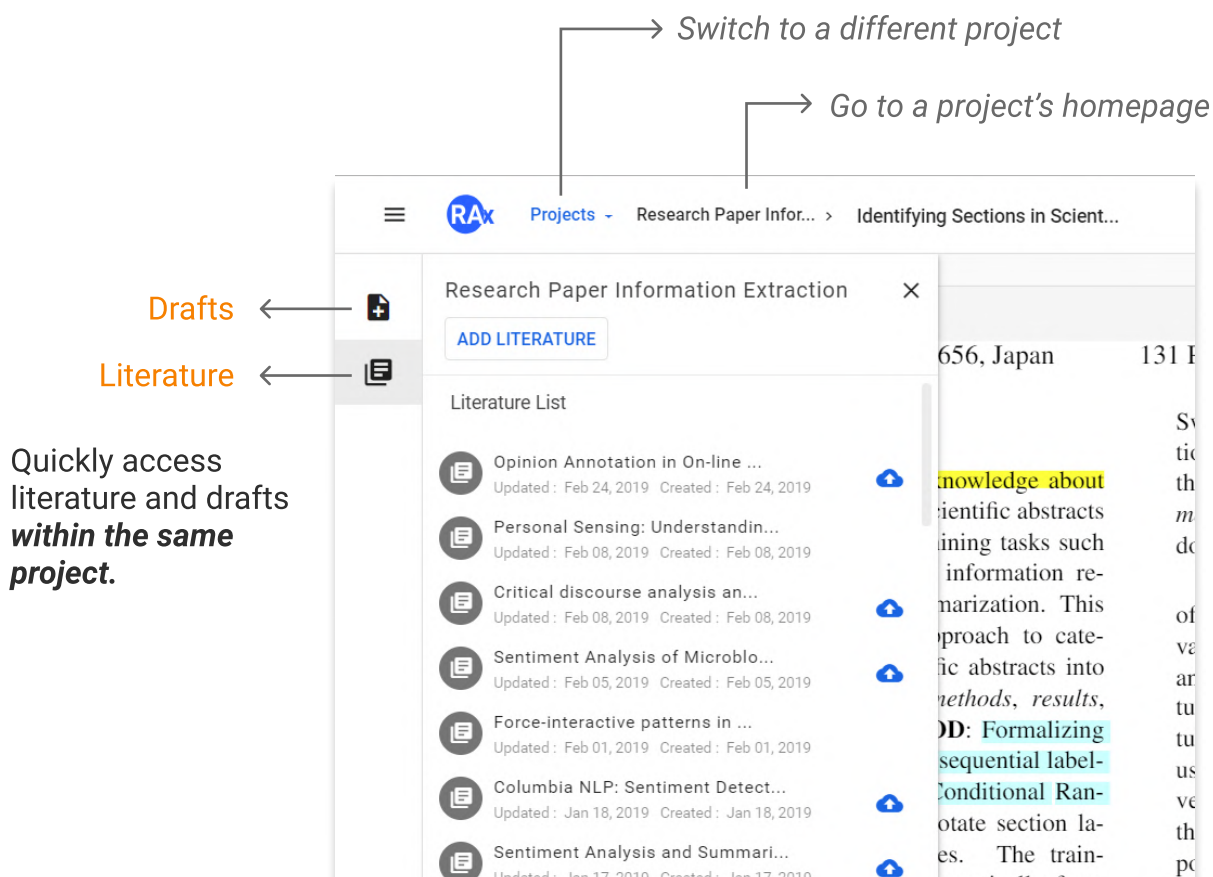
## Basics of RAX web-app interface

### Quickly get around in RAX

### Navigate throughout RAX web-app



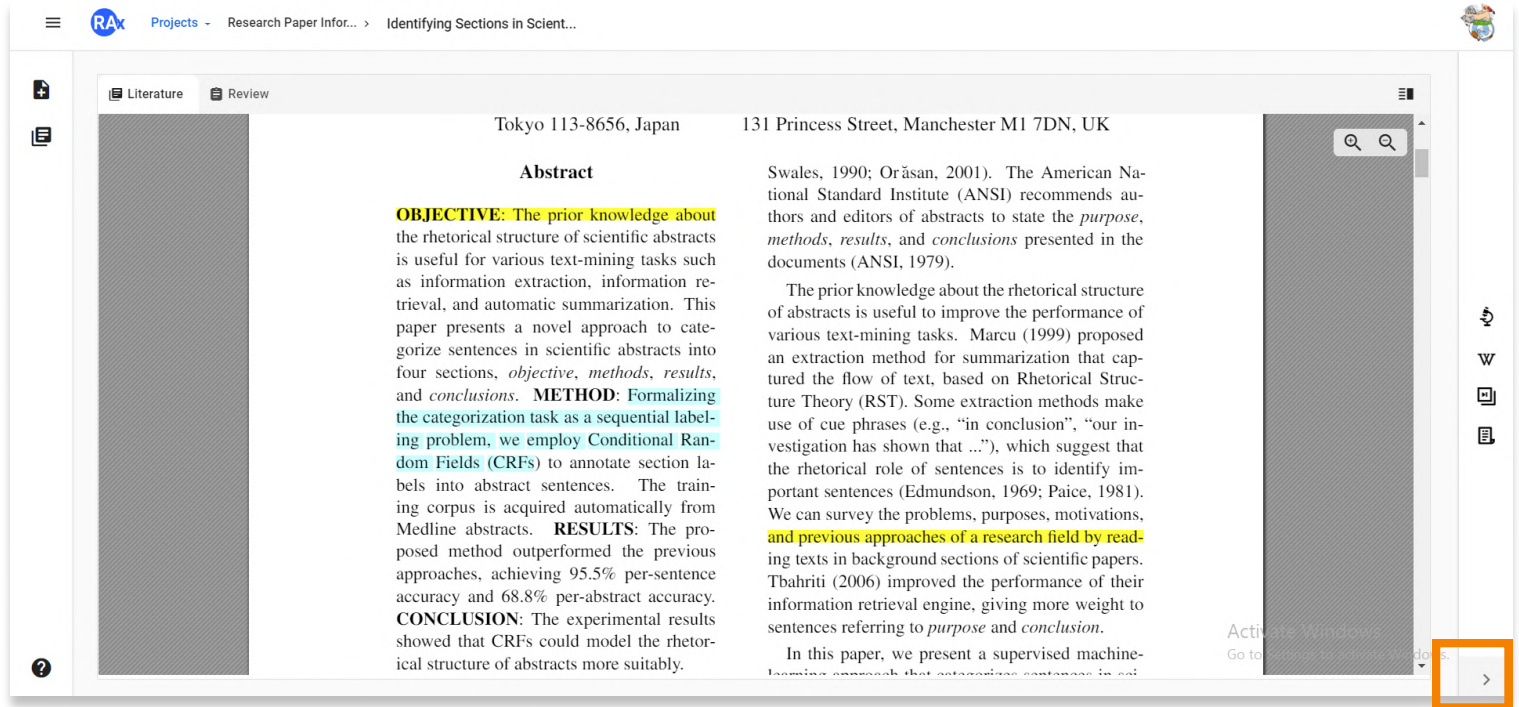
### Swiftly navigate through projects



# 4

**Read, highlight and  
annotate literature**

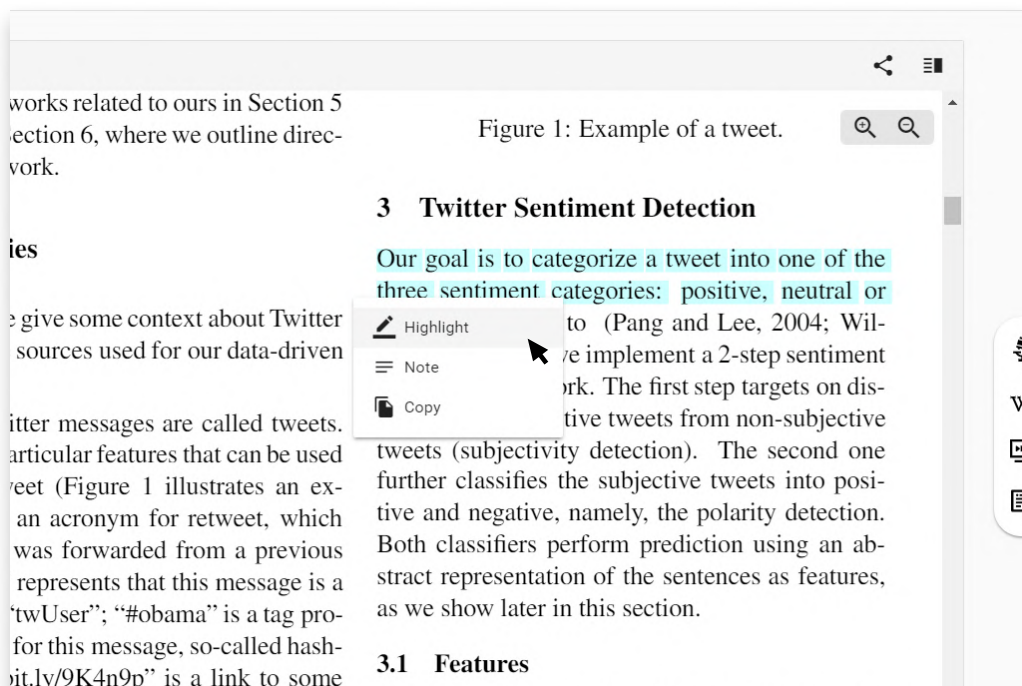
## Read in expanded view



Click on collapse button to shift to expanded reading view

## Highlight and annotate literature

Select the text which you want to highlight or annotate and select the respective option from the pop-up menu.



### Behind the scenes

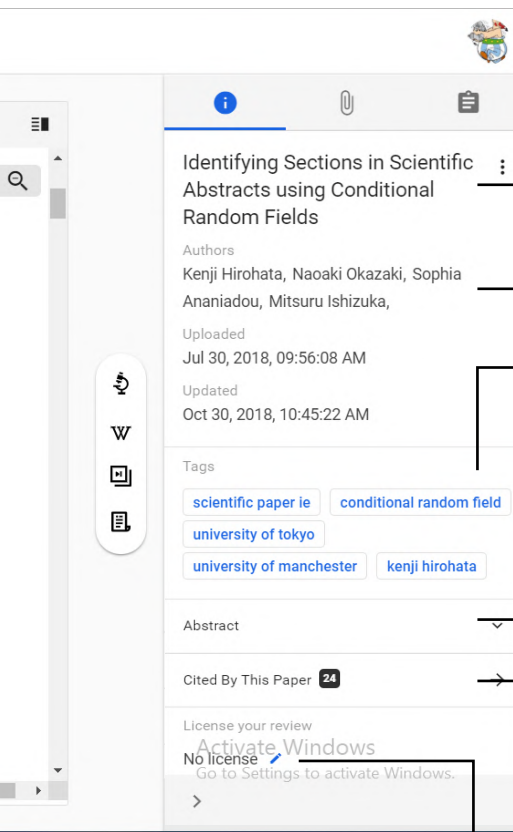
RAX takes into account all the highlight and annotations you make on a paper to improve the recommendation.



5

**Review the details of the  
article**

# Review the details of the article



Whenever you upload an article, RAX **automatically extracts its metadata and references**.

➊ Title of the article (editable)

➋ Authors (non-editable)

➌ Tags (user given)

Tags are very important to organize and classify your papers. Some example of tags: *based on topic, author name, venue name, completed, to-read, high priority, needs discussion, under review, etc.*

*We highly recommend you to classify your document using tags whenever possible.*

➍ Abstract of the paper (non-editable)

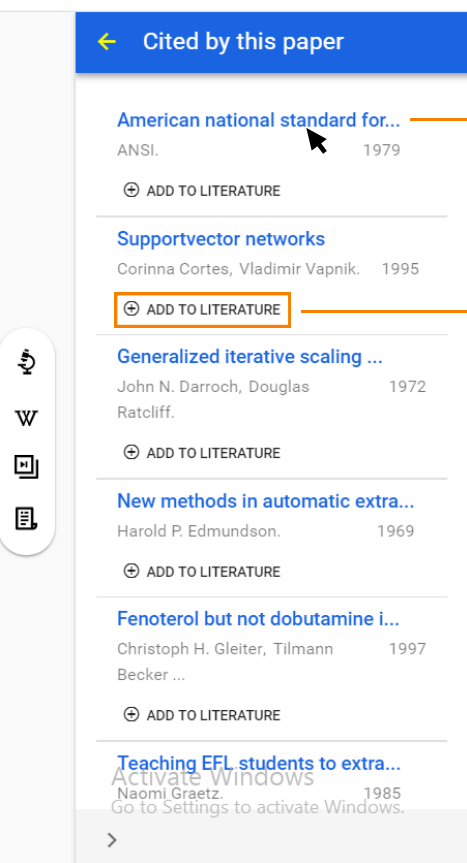
➎ Cited by this paper\*

RAX extracts the references mentioned in the article and compiles it into a single easily accessible list.

➏ License your review\*

You can assign a Creative Commons license to your review of the paper. It can be helpful in the cases of claiming originality of your work.

## ➎ Cited by this paper

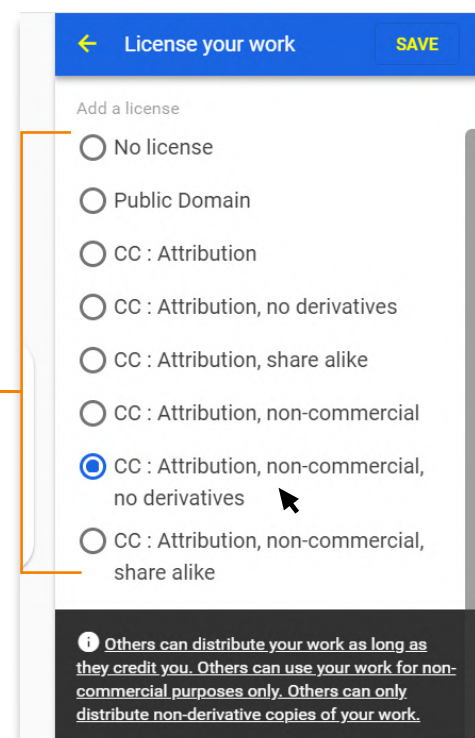


Clicking on the title of a reference will take you either to its source website or to google scholar page. Where you can find further details.

You can add important references to your literature list right from here.

You should assign an appropriate license to reviews and drafts that you write on RAX. This can help you in case of any copyright conflicts in the future.

## ➏ License your review



**i** Others can distribute your work as long as they credit you. Others can use your work for non-commercial purposes only. Others can only distribute non-derivative copies of your work.

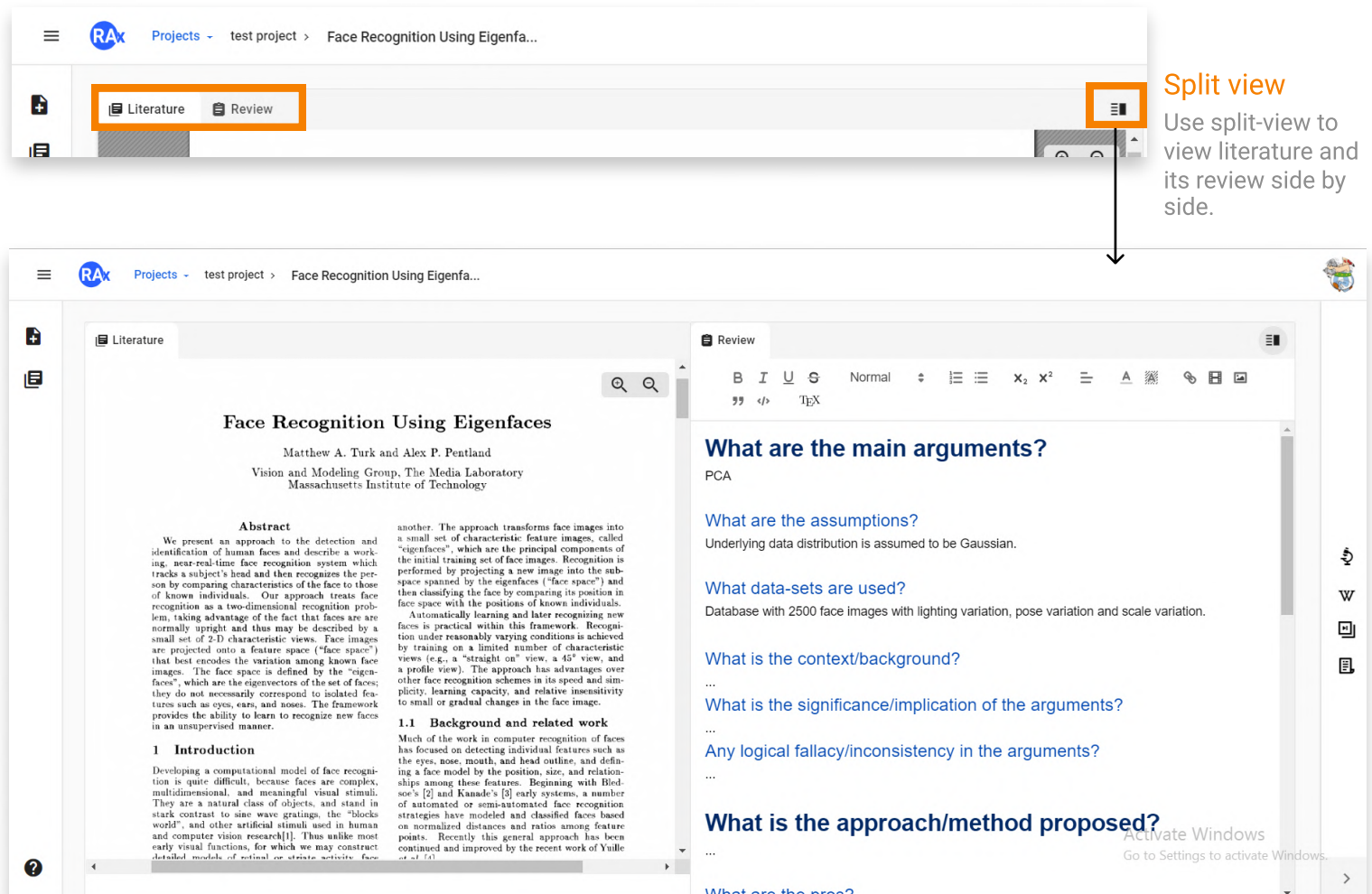
# 6

**Review the literature  
effectively**

# Review the literature effectively

## Customizable review templates

RAX provokes critical paper reading for the users by going beyond general annotations. Every paper has a question-answer format review document attached to it. The default review template comprises of general research-methodology questions that are independent of the field of research.



**Note:** Always make sure to apply a CC license ( from details panel ) to your review of the literature to avoid any copyright issues in the future.



### Best practices for using Review templates

- Customize the set of questions specific to your field or problem statement.
- To make the most out of Review template, ask if your advisor can provide you with the set of questions that should be answered while reading the paper. This will push you to read & understand papers more thoroughly.



### Key benefits of Review templates

- prompts you to ask the right questions while reading a paper
- structure your critical thinking in an easy to retrieve way
- don't lose the context of your understanding or doubts again
- have a focused discussion with your supervisor or team

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**Get the right resources to  
push your research  
forward**

Get the right resources to push your research forward

## Easily discover relevant materials to read

One of the major benefits of RAX is its **smart recommendations**. RAX scans the paper you upload, matches it with 160M+ (...and increasing) research papers indexed in our databases, and recommends you the most relevant and useful papers.

The screenshot shows the RAX interface. On the left, a sidebar contains icons for Literature, Review, and a search bar. The main area displays a paper titled "Face Recognition Using Eigenfaces" by Matthew A. Turk and Alex P. Pentland. The paper's abstract and introduction are visible. On the right, a "Literature Results" panel lists recommended papers, including "Face Recognition Machine Vision System Using" and "Face Recognition Using PCA". A "FINE-TUNE" button is visible in the top right corner of the interface.

Paper you are reading

### Ryg panel

Resource pool of RAX at your fingertips.

- 🔍 Research papers
- W Wikipedia articles
- 📺 Video lectures & courses
- 📰 Blogs & magazine reads

### Recommended resources

Based on the paper you are reading. These are URLs of the source website, where you can access it.

## Fine-tune the recommendations

The screenshot shows the RAX interface with the "FINE-TUNE" button highlighted. A modal window titled "Fine-Tune" is open, showing options to filter research papers. The modal includes a "Date within" section with "From" and "To" input fields, a "Show me papers with (beta)" section with radio buttons for "Similar Problem Statement" and "Similar Approach", and "RESET" and "APPLY" buttons. The "FINE-TUNE" button is also visible in the top right corner of the interface.

See research papers from a certain time range.

**💡 Rigorous comparison using Advanced filter**

Find research papers with similar problem statement as compared to the one you are reading right now.

Find research papers that are using a similar approach as compared to the one you are reading right now.

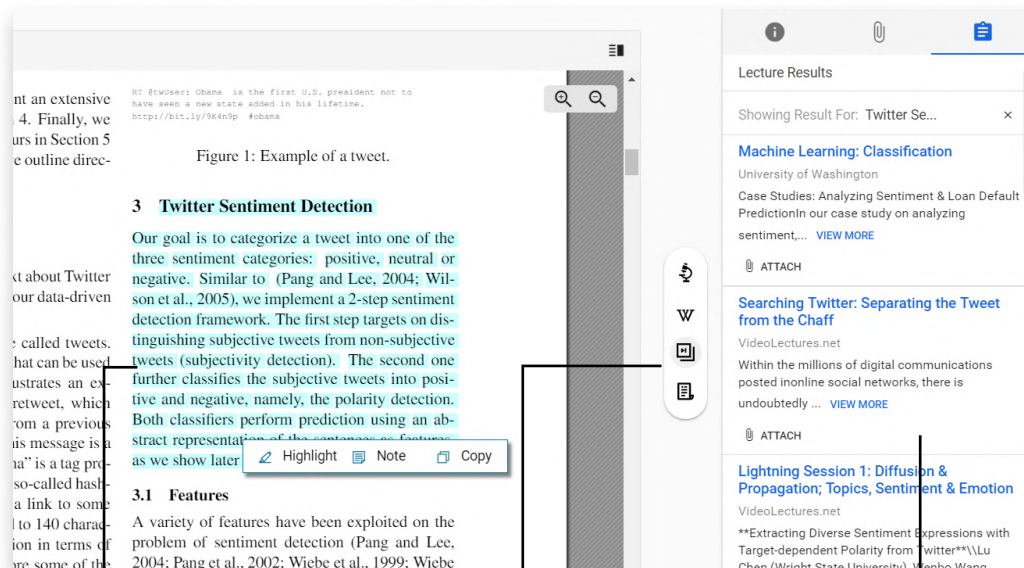
8

**Get quick conceptual  
clarity of concepts in the  
paper**

Get quick conceptual clarity of concepts in the paper

## Find supplementary resources using selective rygging

RAX recommendations are not limited to research papers only. It also suggests supplemental video lectures, courses, wiki articles, blogs, and books\* for conceptual clarity while reviewing a new paper.



### Don't lose the resources you used

Whenever you find a useful recommendation click "Attach" to save it in a 'References' list of the paper.

- 1 Select the content that requires more understanding
- 2 Select the type of resource you want to explore
- 3 Explore relevant recommendations and attach them for later reference

## Key Benefits of selective rygging of supplementary resources

- Get quick and contextual clarification when stuck on a topic/section of the paper under review
- Helps you in keeping track of "resources" used during the paper review.
- Stay updated with recent developments related to topics mentioned in the paper.

**\*Note:** If your institute has procured RAX suite, with student demand we can also add library books and e-books along with other supplementary resources.

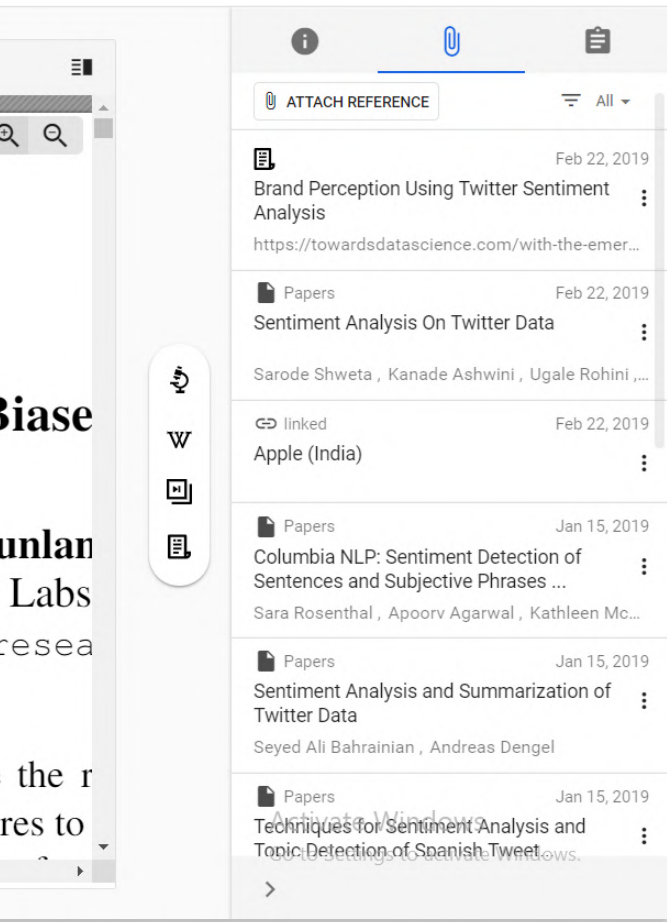


# 9

**Attach and organize  
useful content &  
references easily**

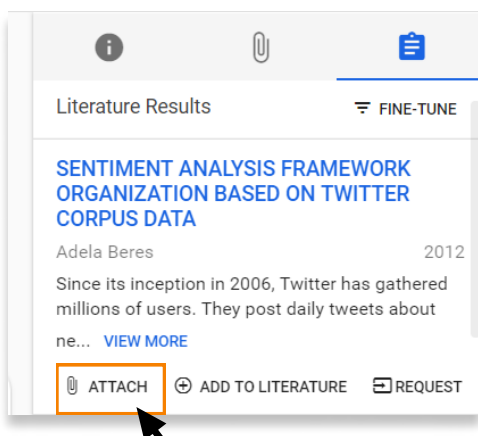
## Attach and organize useful content & references easily

For each paper or draft on RAX, you can bookmark resources relevant to it in the “Attachments” section.

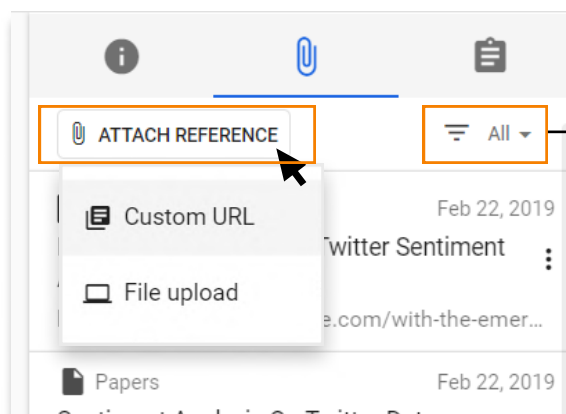


- Useful recommendations from RAX, that you may want to refer later
- Snaps of your blackboard discussions around the literature you are reading
- Any external web link or pdf document relevant to literature you are currently reviewing, etc.

1 Adding recommendations from RAX as attachments



2 Adding external attachments



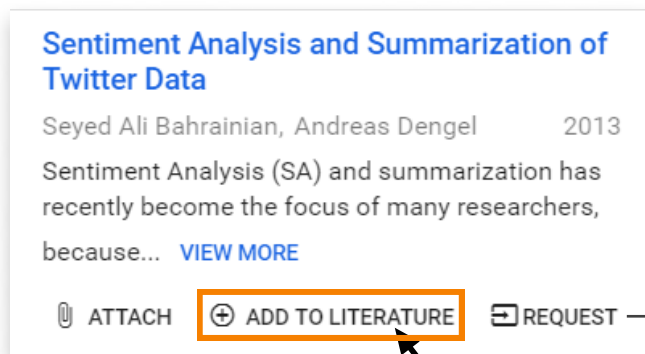
‘Filter’ attachments by their category for quick retrieval

# Attach and organize useful content & references easily

## Difference between 'Attach' and 'Add to Literature'

For research article results, in addition to 'Attach', there is one more option: 'Add to literature'.

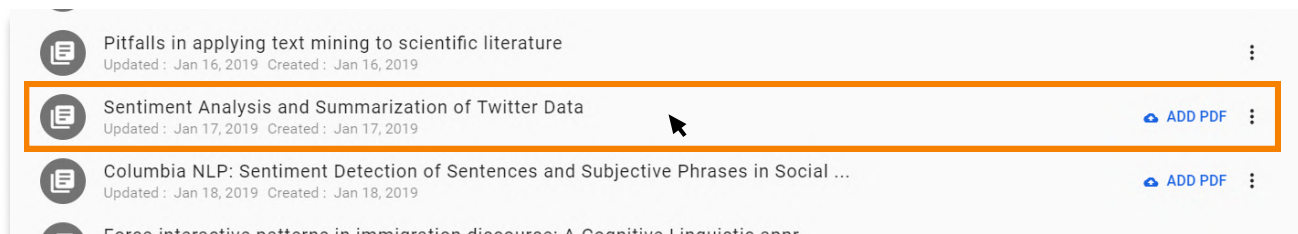
- 1 Use **Add to literature** when you find a particular research article that you want to review thoroughly.



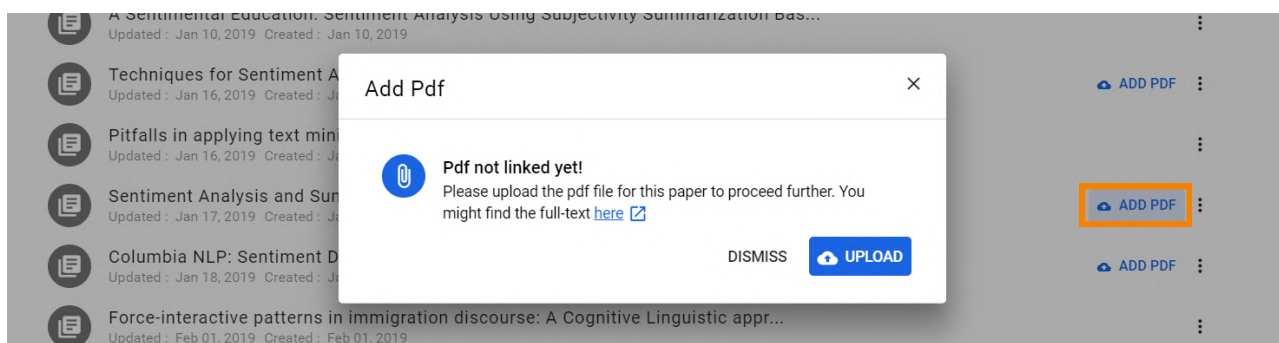
### 💡 Request the full-text of paper from your library

If RAX is integrated with your institute library, you can 'Request' the full-text of the research articles from your librarian.

- 2 Research articles that are added through **Add to Literature** option can be found in the Literature list of the respective project folder.



- 3 **Add to Literature** adds the research article as a URL and not as a PDF file. Click on 'Add pdf' option to find the full-text or upload the corresponding pdf.



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**Work faster with  
collaborators**

# Work faster with collaborators

With the new **Team Feature** (Beta version) on RAX, you can share the projects with your advisor, collaborators, teammates or friends who are working (or has worked) on similar projects. Sharing your work-in-progress help to:

- keep everyone on the same shared perspective
- get and give timely feedbacks
- get faster understanding of concepts
- have more productive discussions
- save you from annoying email chains.

## Collaborative learning through sharing literature

For a faster understanding of complex concepts within papers, you need help from your advisor, peers or an expert you know. The **Team feature** facilitates you to quickly have in-depth contextual discussions on the paper. You can even form study-circles around research papers you are reviewing thoroughly.

### 1 Share the literature (and your review of it)

Click on 'Share' button

Enter email id of person you want to share with

Add your note

Sourish Dasgupta  
sdg.daiict@gmail.com

- Discover
- Projects
- Shared with me
- Profile

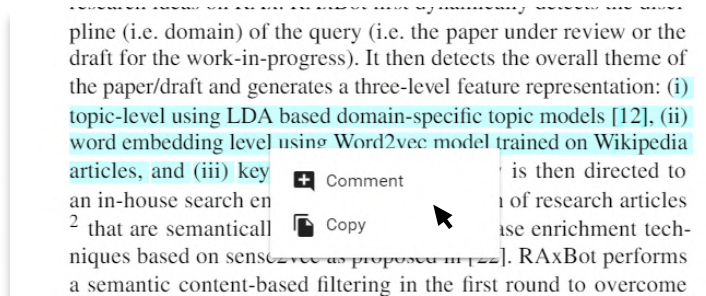
You can access the articles that are shared with you by others access from "Shared with me" section. The collaborators can:

- read the shared literature on RAX
- comment on it
- see your 'Review' of the paper in read-only mode

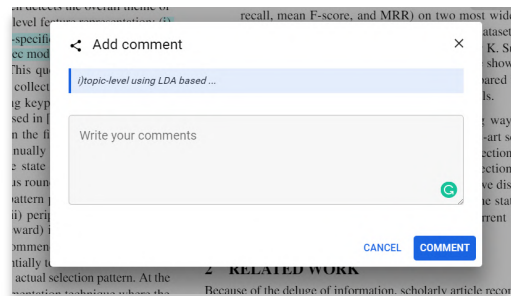
## Work faster with collaborators

### 2 Start a discussion thread on the literature

Considering the complexity of research articles, the task to decipher the text becomes challenging and time consuming for students. This is where the Team feature comes handy.

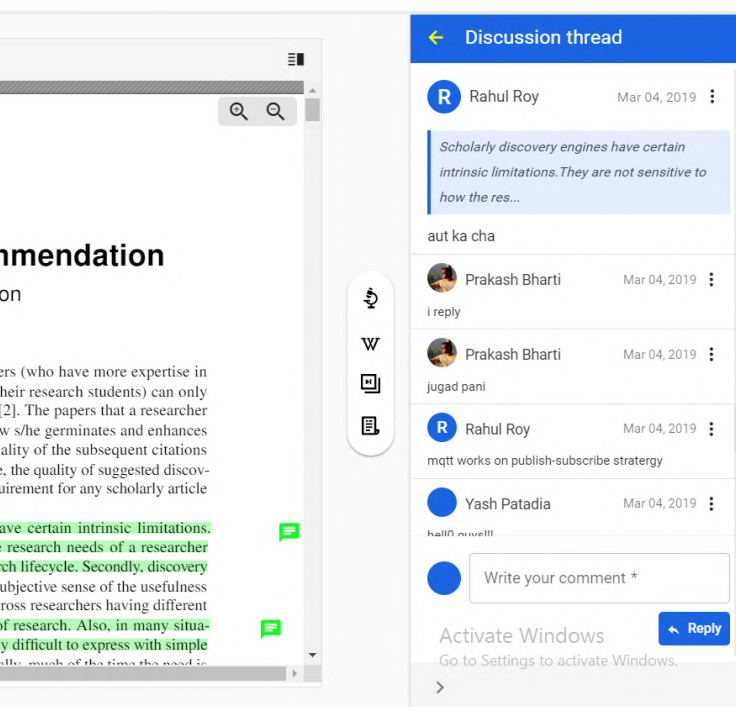


Select the text you want to comment on



Enter your comment in the dialogue box

**Students** can share the paper with their advisor, peers or other experts to:



- understand concepts within the paper
  - learn from senior's experience with a particular topic
  - can get more efficient alternatives to method/experimentation/analysis through suggestions from advisor or experts.
  - find other useful reading that collaborators can mention in comment
  - develop their hypothesis for future work
- ...and refine and revise their research.

**Authors** can share their paper with other professors and experts to receive feedback, discover related content and even find a future collaborator.

## Benefits of sharing your review of the literature

We recommend you to share the review of key literature with your advisor or experts for a **faster and thorough review process**.

By sharing the review and corresponding literature, you can have focused and meaningful discussions with your advisor. Instead of wasting a lot of time in recollecting what was the last discussion about and bringing the advisor on the same page as you are.

Also, the advisor can proactively guide you before you wander into a direction only to change it after weeks of work.

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**Document your ideas,  
thoughts and  
work-in-progress**

# Document your ideas, thoughts and work-in-progress

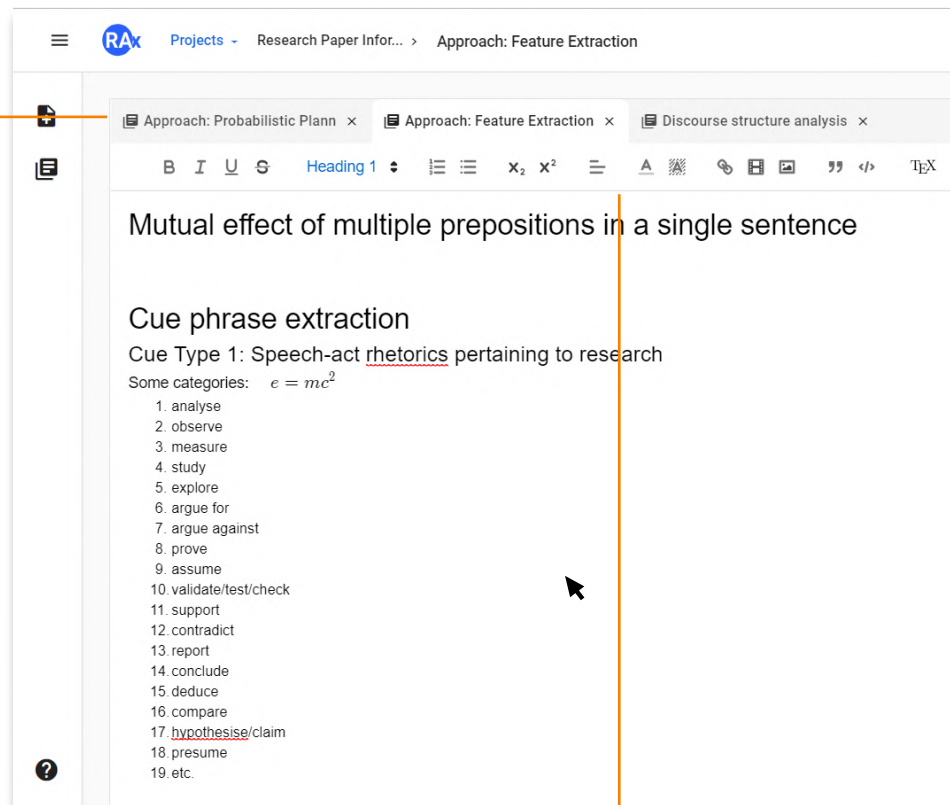
Research is never only about reading, learning and collating existing work. Creating your own insights, new ideas, observations, questions, and perspectives is an equally important part of the research process.

Knowledge acquisition and knowledge creation are tightly coupled process, and RAX is designed to facilitate that. That is why within every project along with a Literature library you have a directory of '**Drafts**'.

Drafts are made to facilitate you quickly capture

- *ideas that you get during reviewing the literature*
- *observations*
- *initial thoughts about the experimental setup*
- *derivative research question*
- *hypothesis*
- *blogs related to your work*
- *a rough outline of the final draft of the paper you will be writing*

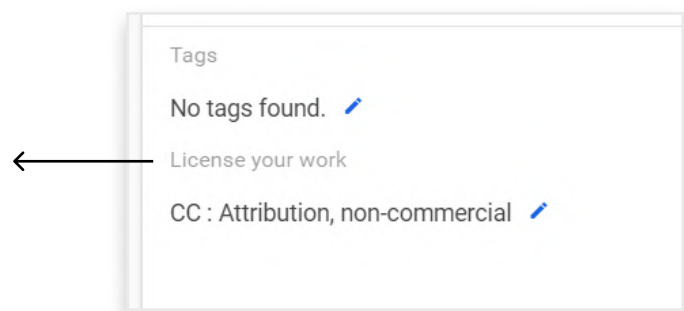
...and pretty much anything else you would want to document.



With RAX you can see and quickly switch between multiple drafts in a single tab.  
*No need to switch to another app for quick documentation and no more clutter of multiple tabs.*

The rich text editor allows you to write detailed and complex documents with ease. *You can add lists, images, web links, video links, code snippets, and Latex formulas.*

**Note:** Always make sure to apply a CC license ( from details panel ) to your drafts to avoid any copyright issues in the future.





## Do a thorough literature search for your problem statements

Apart from quick and easy documentation, Drafts can be used to do a thorough literature search for your chosen problem statement. Create a draft and jot down your problem statement or abstract or rough idea that you want to pursue.

The screenshot displays the Drafts application interface. On the left, a draft document titled 'Scholarly article recommendati...' is open, showing a paragraph of text about scholarly article recommendation. On the right, a 'Literature Results' panel is visible, displaying search results for 'User Profile Based Research Paper Recommendation' and 'Domain Ontology-Based Personalized Recommendation Research'. The panel includes options to 'Attach', 'Add to literature', and 'Request' for each result. Three numbered arrows point from the text below to specific parts of the interface: Arrow 1 points to the draft document, Arrow 2 points to the literature results panel, and Arrow 3 points to the 'Add to literature' button.

1 Write the problem statement that you will be working on

2 Select the type of resource you want to explore

3 Explore relevant recommendations and attach them for later reference

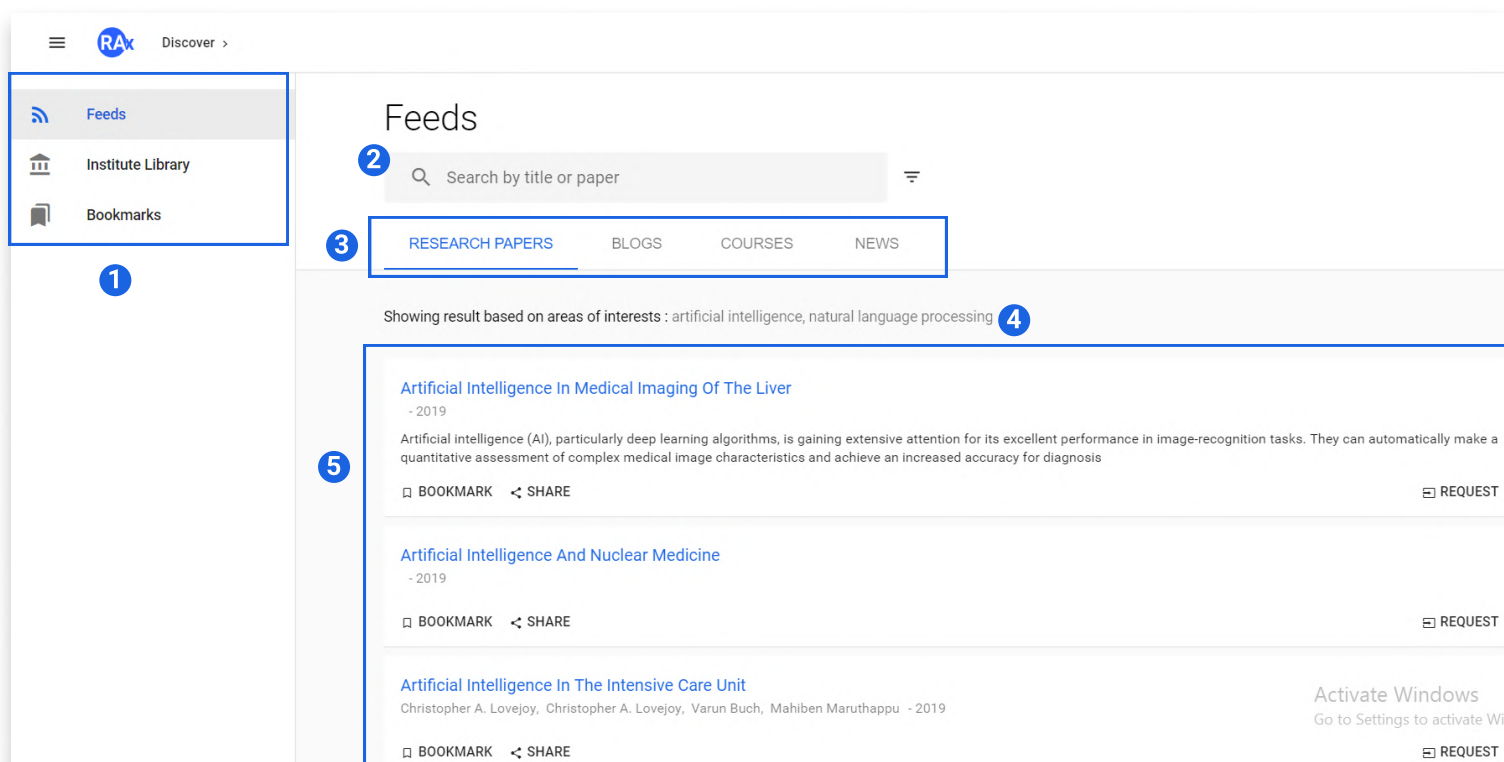
12

**Search, discover and  
save content**

# Search, discover and save content

Stay up to date with the world around your research interests and project work. RAX constantly scan the internet to bring you the most current and relevant content in **Discover** page. You can access Discover page from top left menu icon.

You can search and discover not only **research papers** but also **latest blog articles**, **online courses**, and **news**. If you belong to the institute that has subscribed to our service, you can **easily access all the content of your institute's library** from 'Discover' page.



- 1 Feeds** - A collection of online resources that are hand-picked and indexed by our team. Search from some of the finest sources across the web that are vital for staying updated in today's academia.

**Institute Library\*** - *If you belong to the institute that has subscribed to our service, you can easily access all the content of your institute's library from here.*

**Bookmarks** - Access all the bookmarked resources from Feeds and Library.

- 2 Search and filter content** - Enter your query into the search box and date wise filter the results.
- 3 Resource categories** - Select the type of resource you want to search.
- 4 Search query** - By default the results are shown on the basis of *your areas of interests*. When you enter a search query, RAX shows you results relevant to your query.
- 5 Results** - Click on the title to go to the source website. Bookmarks to read it later. For subscribed Institutes, an individual can 'Request' the full-text of important research papers from the librarian directly from RAX, with just one-click.

## Search, discover and save content

### Go beyond simple keyword search

Whenever you enter a search query in Discover page, RAX enriches the query by identifying relevant concepts and resources that may not have the exact keywords in it but is related to what you are searching for. This significantly increases the chances of discovering useful content that otherwise would be hidden.

Following example shows how search in RAX is different than traditional discovery engines used by libraries.

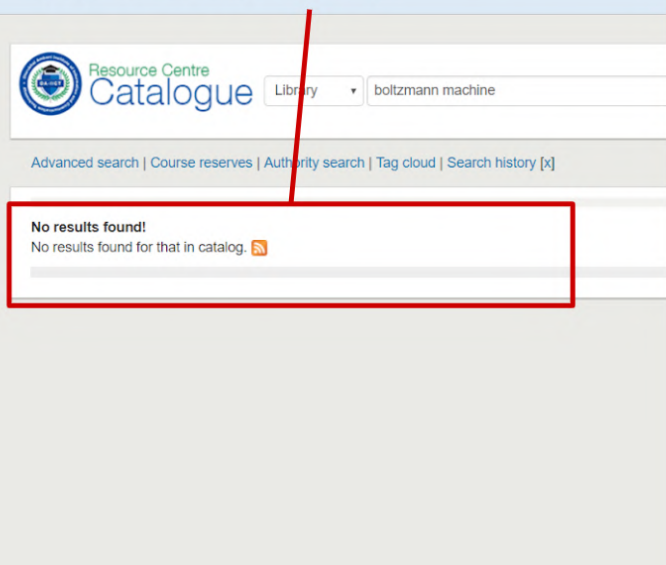
**Search query:** Boltzmann machine (it is a type of stochastic recurrent neural network widely used in machine learning and artificial intelligence applications).



#### Behind the scenes

RAX uses semantic layering over keyword search to enrich the discovery of content. It identifies topics peripheral to the topic/concept being searched and shows you all the relevant resources.

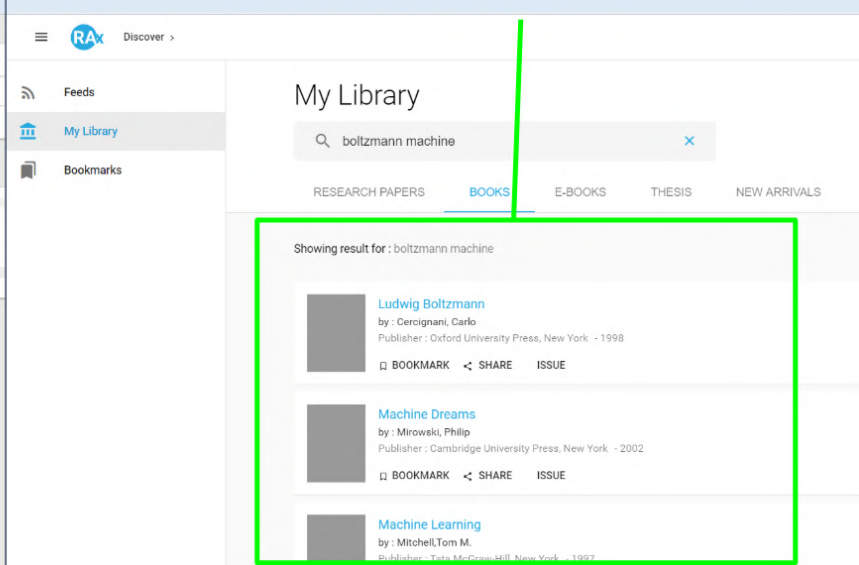
#### Koha search engine in DA-IICT library (keyword-based search)



A normal discovery engine returned no result since it could not find any resource with the exact search keywords.

Vs.

#### RAX search in DA-IICT library resources (concept-based search)



RAX identifies concepts relevant to Boltzmann machine and shows books available in the library, which otherwise could not have been found by students.

### Faster content discovery in the early stage of research

Most of the traditional discovery engines use keyword match and advanced binary filters. These tools are not very useful in the early stage of research when we don't know what exactly to search for. RAX solves this issue using “**Search by your papers**” functionality.

- 1 When you click in the search box, you will “Search by your papers” option in the dropdown. Select this option.

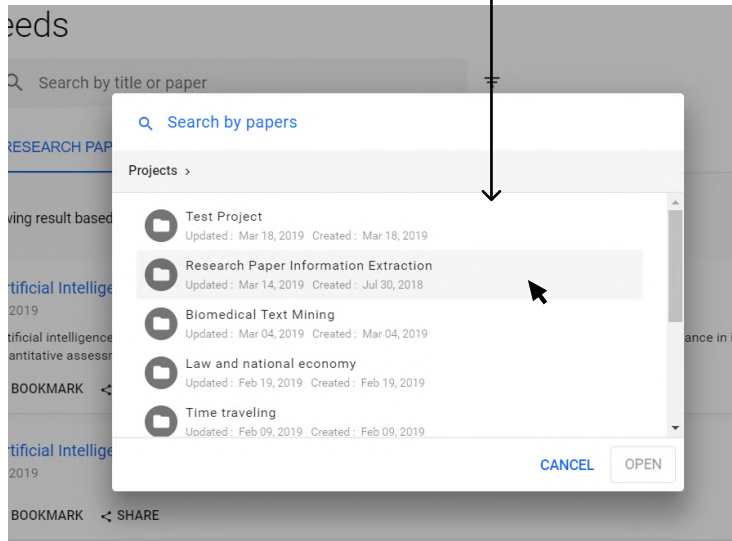
#### Feeds

Search by title or paper

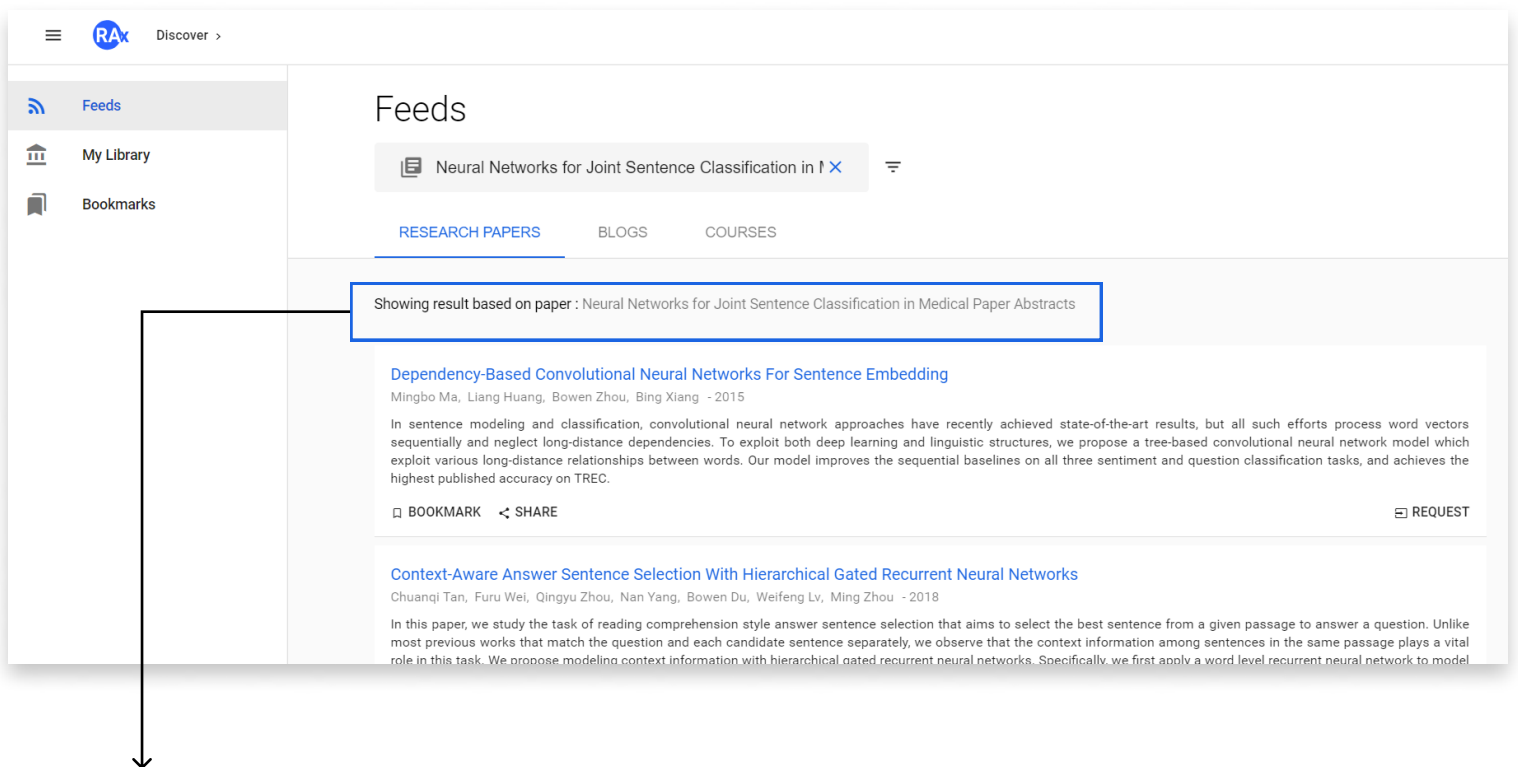
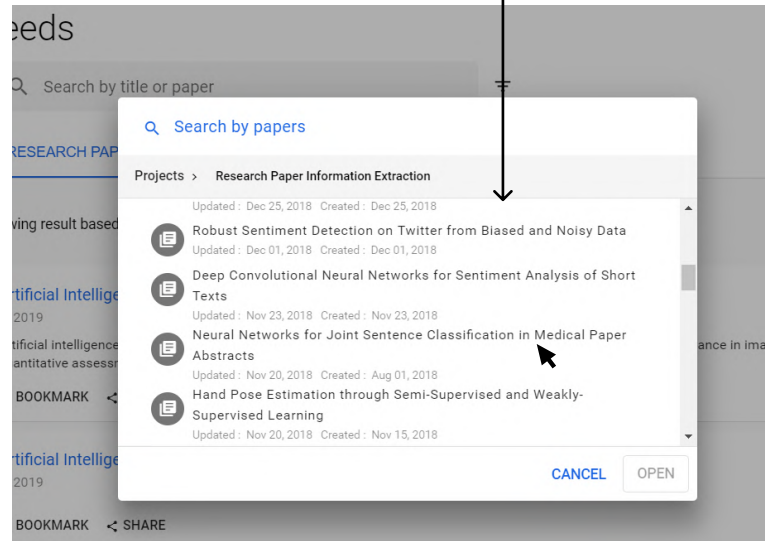
Search by your papers

# Search, discover and save content

2 Select the project which contains the required paper.



3 Select a paper to discover content based on the concepts within it.



## Benefits of using “Search by papers”

- In early stages of research or whenever you don't have exact keywords to search for, the papers that you have contains keywords or topics or concepts based on which you can discover further leads. Thus “Search by papers” facilitates **faster discovery of content**.
- The results you find via “Search by papers” can trigger new **direction of thinking** or can open up a perspective that you otherwise would not have thought about. This is important since many of the great research breakthroughs were triggered by unanticipated cue.
- Also, “Search by papers” is helpful in **staying up-to-date** with the latest work and activity around the topics that you are reading in the important papers.

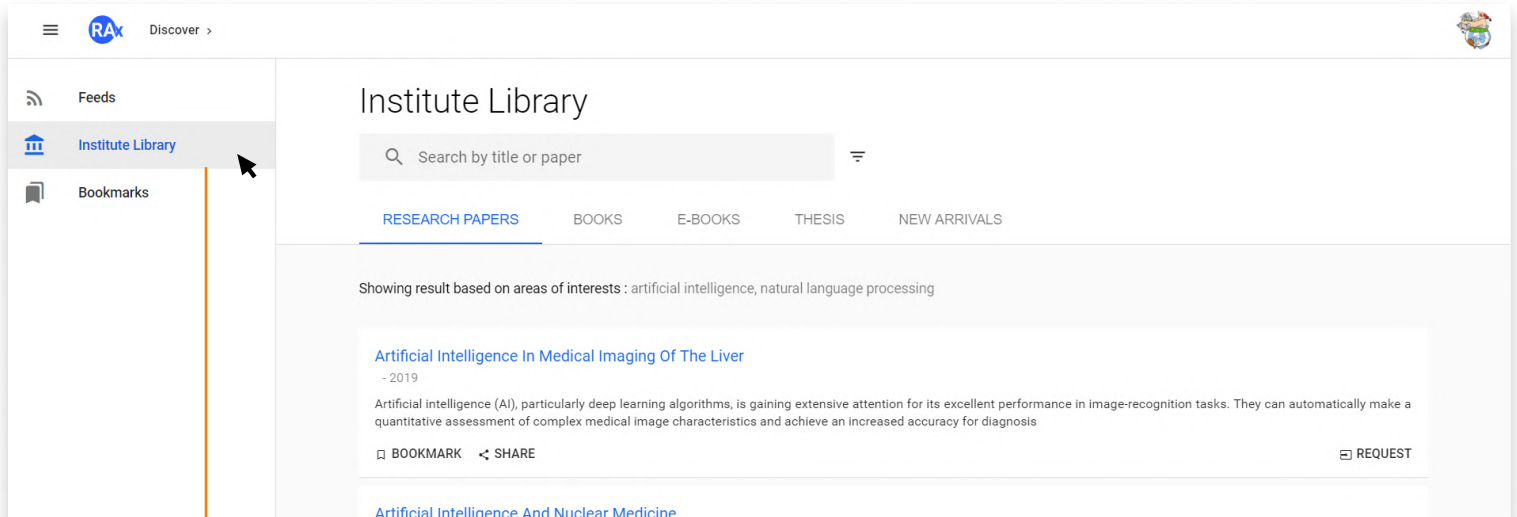
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## **Benefits of Institutional plan**

## Benefits of Institutional plan

If the institutet to which you belong has integrated RAX with the institute library, then you have access to some additional benefits to make the best use of your institute library.

### Clean interface for library search - from anywhere

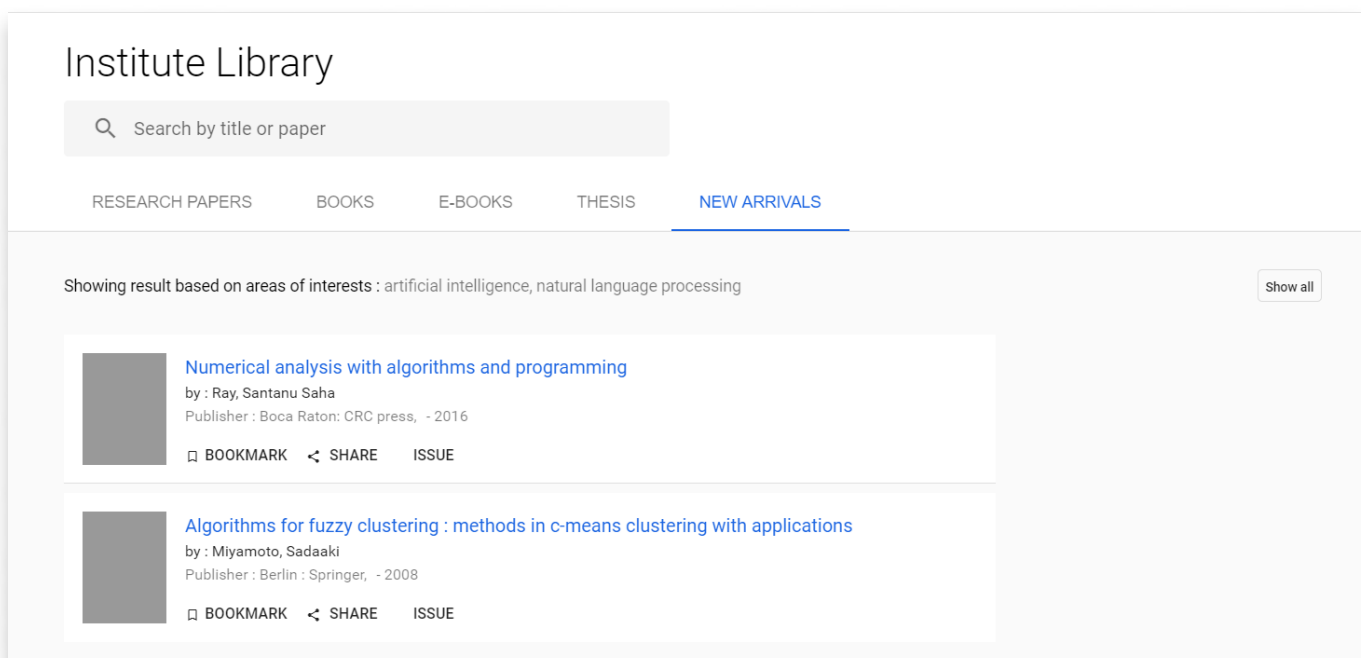


In the “Discover” page, click on Institute Library tab to search through the library content. If you have your institute email id verified, you can access library content from anywhere (inside or outside of institute campus) through RAX. **Search and bookmark library content with ease.**

### Get personalized updates from library

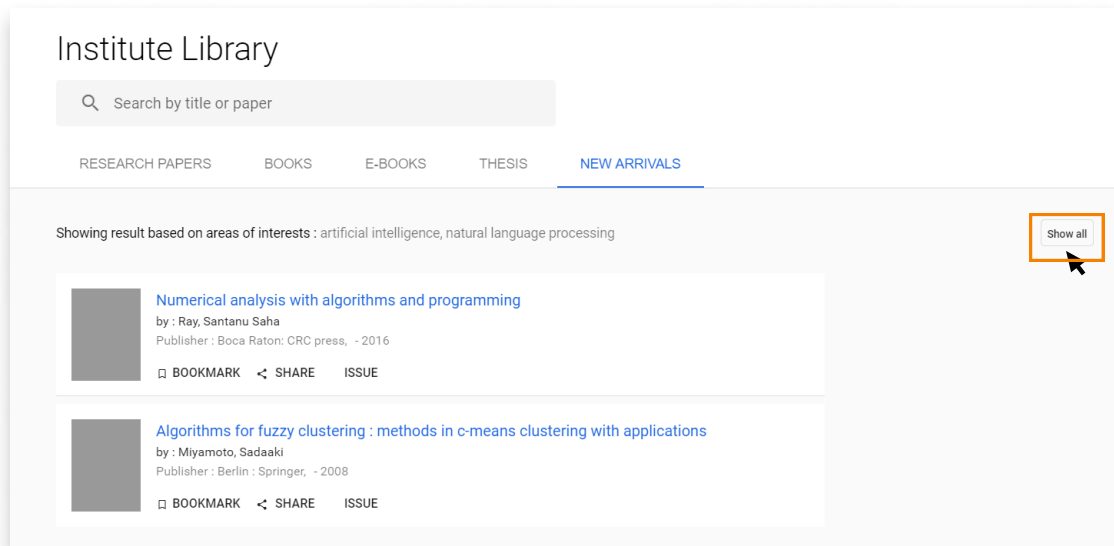
Do you just ignore the new-arrivals mails from library? Or wish that library mailers were more relevant for you. With your institutes library integrated in RAX, you will only get update about the content that matters to you.

RAX scans through the library and recommends you most relevant content based on your project and areas of interest.





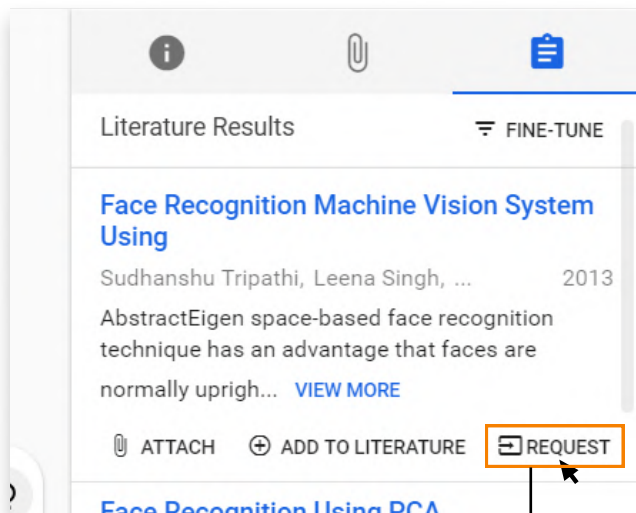
# Benefits of Institutional plan



Click on 'Show all' to see all the new arrivals for a particular week

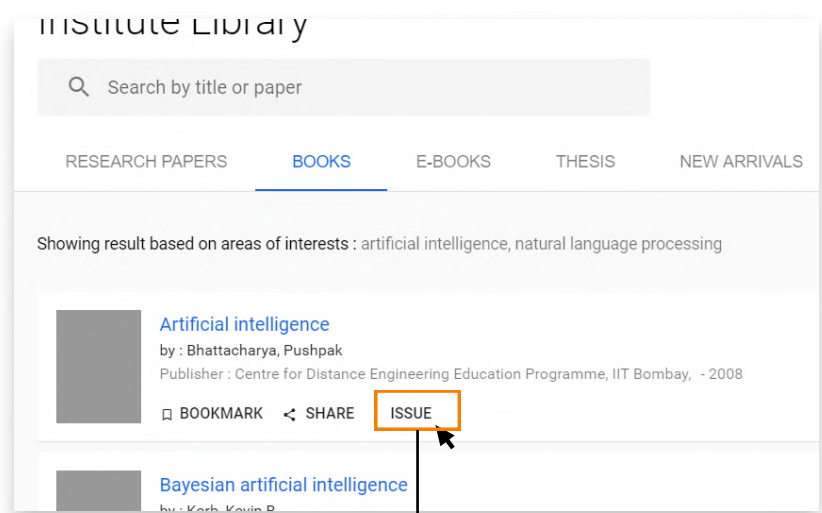
## One-click request for content

With RAX, requesting paid-content and issuing library material is just a work of one click. No more copying meta-data of the material you want and writing a mail to librarian.



- 1 If you get a useful recommendation but the paper is not accessible for free, click on the '**Request**' button the result card.

This will send a request mail to your institute librarian on behalf of you via RAX. You can access the pdf sent by the librarian in the replied email.



- 2 Click on '**Issue**' button to reserve the book for yourself.