

Literature Searching

Part 3: Scopus and Web of Science databases

Eleni Borompoka & Susan McCourt - Library

Postgraduate Research School: 2020/2021

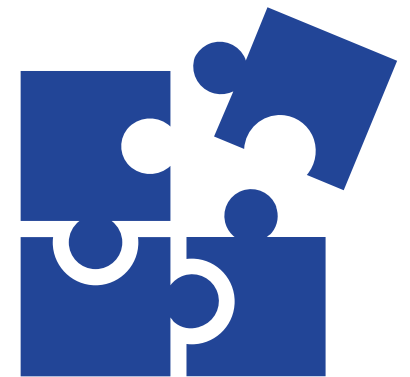


This slide was added after the presentation for MyAberdeen use

- This online session was held on Thursday 17 December 2020 in the PGR Collaborate Meeting Room
- A recording is available in MyAberdeen: MyPGR > Meeting room > Meeting Room (Collaborate Room) > 3 lines on top left > Recordings (thank you to Anton for the instructions 😊)
- Each of the sessions is supported by worksheets and information sheets – you learn more by doing than watching and listening! The worksheets are available in the Library folder/module along with the presentation slides

Outline: support materials

- Recordings and/or presentation slides
 - Library induction (in pandemic times)
 - **Literature searching: Part 3 - Scopus and Web of Science databases**
 - Off-campus access
- Live online sessions and worksheets
 - Literature searching: Part 1 - Overview, plan, access and library support
 - Literature searching: Part 2 - Primo, Ebooks & Google
 - Literature searching: Library Q&A



- My PGR
- Announcements
- PGR School
- Discussion Board
- Meeting Room
- Personal and Professional Development
- Mandatory Training
- Teaching and Demonstrating
- Your Health and Wellbeing
- SBS Students Only - Turnitin Plagiarism Checker
- Library

Library

Build Content

Assessments

Tools

Partner Content

Worksheets - Databases

Worksheets for a range of different databases including Scopus, Web of Science and Medline.

Worksheets - Primo, Ebooks, Google

Support Documents - Plan, search rules, library guides

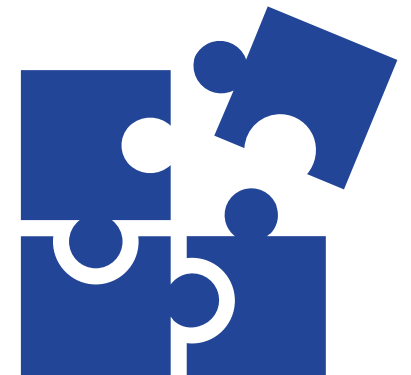
Availability: Item is hidden from students. It will be available after 16-Dec-2020 08:30.

Aim and outline

Feel confident that you can make effective use of databases to find **journal articles** and **research level material** to support your research

[Note – we covered books and other support materials in Part 2 of this series, and the basics – planning a search – in Part 1]

- Identify suitable and relevant databases
- Highlight powerful search features
- Introduce the idea of managing references



Information in academic environment

- Reliable = authoritative, scholarly, current, academic, respected
- Format can be a helpful indicator of this
 - **Books** and **Journal articles/papers** – written by academics, articles= original research, editorial control or peer reviewed before publication
 - **Conference papers** and **reports** – may be written by academics or industry specialists, original research, generally not peer reviewed/checked
 - **Web pages** – may be written by anyone...
- Many tools available to find **reliable** information
 - Primo, databases (e.g. Scopus), search engines (e.g. Google and Google Scholar)

Tools/resources for academic information

- Tools/resources depend on the type of information you're looking for
 - **Books:** Primo, subscribed sites (ebrary, Springer, ScienceDirect etc.) Google and Google Scholar
 - **Journal articles** (research papers): Databases
 - **Technical standards:** BSOL database, OHSIS database, IEEE Xplore, Google (we have limited access to this type of material)
 - **Reports and commercial/trade information:** Google (Advanced search)

Identify relevant databases





Database Search

Enter database name



Databases by category

- All Ebook Collections
- > All General Resources
- > Arts and Humanities
- > Engineering
- > Law
- > Life Sciences
- > Medicine and Health Sciences
- > Physical Sciences
- > Social Sciences

Search for databases

Use the following options to look for, and link to, databases:

- Enter keywords in the search box.
- Browse databases by category.

Use **Find Databases** tab in Primo to find out what databases we have access to. Use the Categories option, or type in the name of a database that you have used before. You can link out to individual databases from here. (More reliable than using Google)

Databases by category

> Access Route

• All Ebook Collections

▼ All General Resources

Archives

Images

Library Catalogues

Maps and Geospatial Data

Newspapers

Official Publications

Patents and Standards

Reference

Scottish

Statistical / Data Services

Theses

TIP: perhaps it would be useful to carry out an initial search on published theses in your research area?

December 2020: We have a small number of specialist theses database records in the system – more will be added. In the meantime see the handout in MyAberdeen for details on how to link to them in advance of records being added to Primo

journals, magazines and trade publications, many in full text. There are also hundreds of books, as well as selective coverage for additional publications, and an Image Collection of many thousands of images provided by Picture Desk and others. The subject coverage includes archaeology, architecture, history of architecture, history of art, history of design.

Publication coverage: 1937 - current.

[Available Online >](#)

3 databases found for *Theses*

1

Dissertations & Theses @ University of Aberdeen (ProQuest)



As part of a digitisation partnership between the University of Aberdeen and ProQuest this database gives access to the full text of University of Aberdeen doctoral theses from 1925 onwards. Many more theses are indexed, from 1883 onwards. Abstracts are available for many of these titles.

[Available Online >](#)

2

ETHOS - e-theses online service



ETHOS provides a single point of access to UK doctoral theses. It contains over 500,000 records, with more than half of the titles available in full text. Using the Advanced Search option, it is possible to search by author, research supervisor, title, subject, institution, year of award, and more. It is necessary to register with ETHOS to access full text or order a thesis not yet digitised.

[Available Online >](#)

3

ProQuest Dissertations & Theses A&I



This database is the world's most comprehensive collection of dissertations and theses from around the world, spanning from 1743 to the present day.

[Available Online >](#)



Database Search

- ### Databases by category
- All Ebook Collections
 - > All General Resources
 - > Arts and Humanities
 - ▼ Engineering
 - All Key Databases
 - Other Databases
 - > Law
 - > Life Sciences
 - > Medicine and Health Sciences
 - > Physical Sciences
 - > Social Sciences

Search for databases

Use the following options to look for, and link to, databases:

- Enter keywords in the search box.
- Browse databases by category.

Categories: to view a list of Key databases (you should search these!), and **Other** more specialised/niche databases in the topic

Engineering – All Key Databases: short list of important resources.

Use **Other Databases** sub-category for a more extensive list

Engineering

All Key Databases

Other Databases

> Law

> Life Sciences

> Medicine and Health Sciences

> Physical Sciences

> Social Sciences

2

OnePetro (SPE)

19??

You MUST use the VDI to access this database off-campus. Details available at

<https://www.abdn.ac.uk/toolkit/systems/remote-access/> OnePetro is an online library that provides a simple way to search for and access a broad range of technical literature related to the oil and gas exploration and production industry. The following organisations have their technical documents available through OnePetro: American Petroleum Institute (API), American Rock Mechanics Association (ARMA), American Society of Safety Engineers (ASSE), International Society for Rock Mechanics (ISRM), Offshore Technology Conference (OTC), NACE International (corrosion engineers), Petroleum Society of Canada (PETSOC), Society of Petroleum Engineers (SPE), Society of Petrophysicists and Well Log Analysts (SPWLA), The Society of Underwater Technology (SUT), World Petroleum Council (WPC).

[Available Online >](#)

3

Scopus (Elsevier)

Scopus is one of the largest multidisciplinary databases that we have access to. Subject coverage is scientific, medical, technical and social science. Scopus contains more than 70 million records covering articles from peer-reviewed titles from 20,000 international publishers. More than 4,000 open access journals are included. References go back to 1996. Records go back to 1788.

[Available Online >](#)

4

Web of Science (Clarivate)

Access from on- and off-campus: login process



Top

View Online

Details


Send to

Links

View Online

Full text availability

Scopus (Elsevier)

 *Online version available for university members only. This requires an institutional login off-campus*



Details

Title

[Scopus](#) (Elsevier)

Summary

[Scopus](#) is one of the largest multidisciplinary databases that we have access to. Subject coverage is scientific, medical, technical and social science. [Scopus](#) contains more than 70 million records covering articles from peer-reviewed titles from 20,000 international publishers. More than 4,000 open access journals are included. References go back to 1996. Records go back to 1788. Publication coverage: 1788 - current.

Publisher

Elsevier

Language

English

Shelfmark

e Database

Source

Library Catalog

Send to



Welcome to Scopus Preview

[What is Scopus ↗](#) [Blog ↗](#)



Scopus options appear confusing - you may go round in circles a few times. First time user? **Use Sign in and as part of that create your personal account.**


Sign in: an authentication process using your computer username and password. Use this every time you access the database

Create account: a personal account that gives you access to extra services. Only need to do this once

ELSEVIER

Sign in via institution

To continue, please sign in via your institution



University of Aberdeen

Sign in via your institution

Try another way

Please login using your University username and password.

Username

Password

Login



Scopus

[Search](#) [Sources](#) [Lists](#) [SciVal](#) ↗



SM

Document search

[Compare sources](#) >

Documents Authors Affiliations [Advanced](#)

[Search tips](#) ?

Search

E.g., "Cognitive architectures"AND robots

Article title, Abstract, Keywords



> Limit

Reset form

Search

About Scopus

[What is Scopus](#)

Language

[日本語に切り替える](#)

Customer Service

[Help](#)

Databases: personal account - advantages

In many instances:

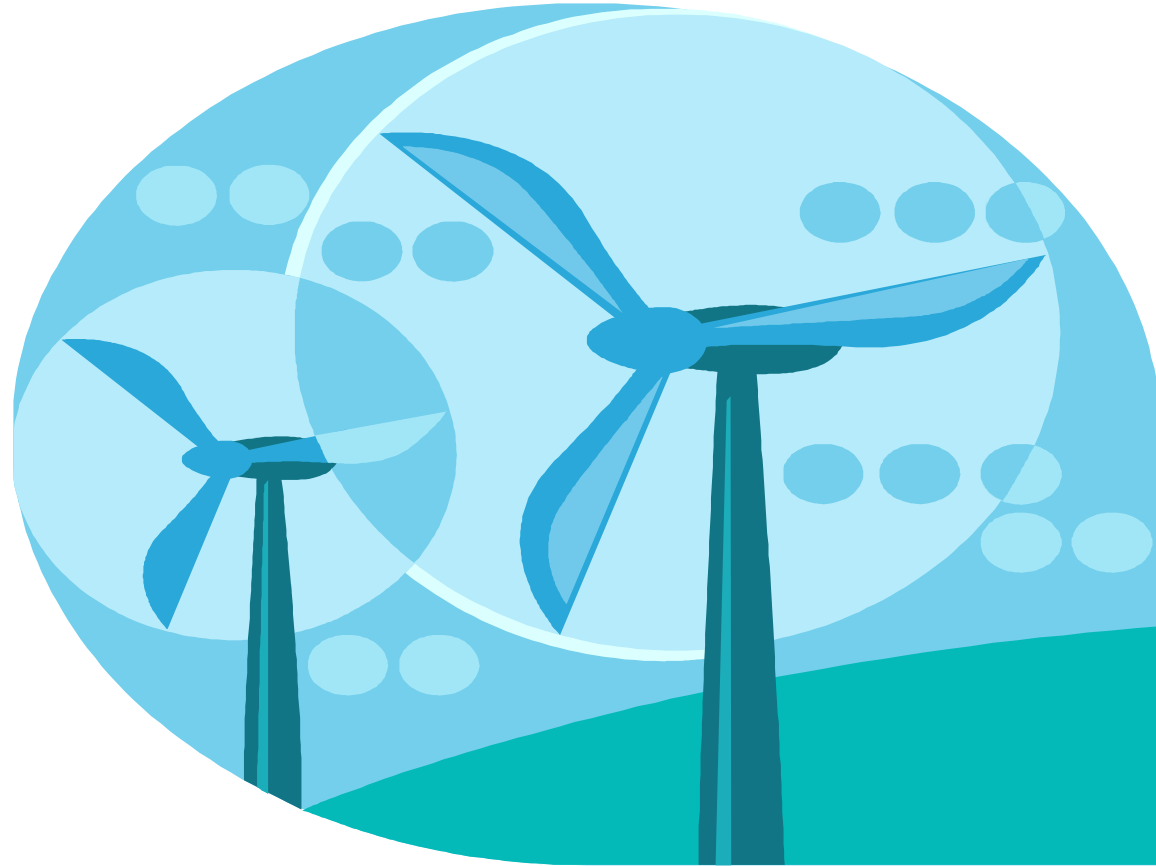
- An allocation of space on the database's servers
- Ability to:
 - Save items to Lists
 - Save complex search strategies to re-run at a later date
 - Set up Alert features, e.g. new papers on a topic or by your supervisor (or by you 😊), notification of who is citing specific papers
 - Can set up speedier access to your reference management software (if using), e.g. RefWorks account

Searching databases: Web of Science & Scopus



Scopus & Web of Science

- We have access to several hundred databases (use [Primo – Find Databases](#) to identify and link to these)
- Scopus and Web of Science are the two largest
 - They cover most disciplines although there will be alternative and additional “go to” specialist databases for subject areas including Law (Lexis and Westlaw) and Medicine (Medline)
 - In many subject areas we suggest starting with both of the “big two” (one then the other) THEN move into niche databases



Safety issues related to wind farms particularly those located offshore

Library Information Skills Workshop: Designing your Search Strategy – Search grid/matrix

Try **brainstorming to analyse your topic**. In the blank box below write any words, phrases and authors that come to mind regarding your assignment. The words don't have to be in any order. Think about acronyms, singular and plural forms, word endings and spelling differences, e.g. US and UK English.

Now group your terms together. Look at the most important idea in your assignment = concept/idea 1. Do you have more than one word/phrase for that idea e.g. oil OR gas OR petroleum? Place the words in the 1st row of the grid/matrix below. What is your second most important concept/idea? Do you have more than one word/phrase for that idea? Write them in the 2nd row. If you have an additional concept/idea, write words/phrases for this in the 3rd row. Now apply the search rules (e.g. truncation symbol; "quotation marks" for phrases - where applicable) for the database you wish to search.

| Concepts | Alternative keywords/phrases | | | | |
|----------------|------------------------------|----|--|----|--|
| Concept/Idea 1 | | OR | | OR | |
| AND | | | | | |
| Concept/Idea 2 | | OR | | OR | |
| AND | | | | | |
| Concept/Idea 3 | | OR | | OR | |

You are now ready to construct your "search string" in your selected database using the Boolean operators **OR** and **AND**. Many databases use a search interface which where you only need to type the **OR** operator within the search line/row as the **AND** operator between lines is already assumed (it is the default setting – do not change it!)

You do not need to fill every box or line however for some assignments you may need a grid that is greater than 3 x 3. The same process applies no matter the grid/matrix size: words/phrases on same line/row = same idea/concept and remember to apply the search rules (e.g. truncation symbol; "quotation marks" for phrases - where applicable) for the database you wish to search.

Plan your search – never type in sentences!

Apply correct search rules to your keywords and phrases

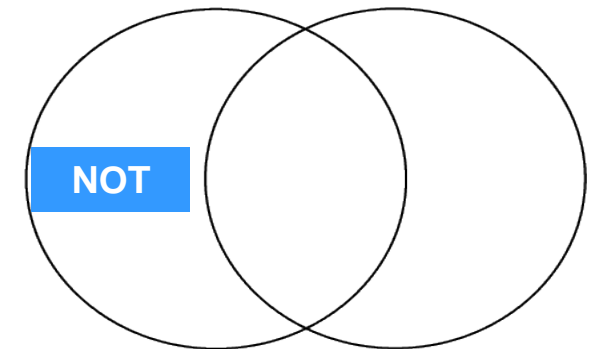
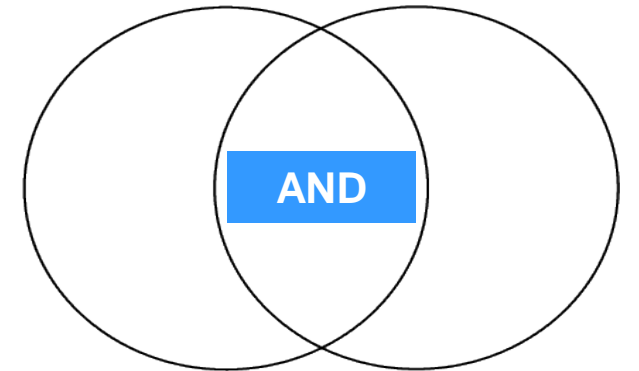
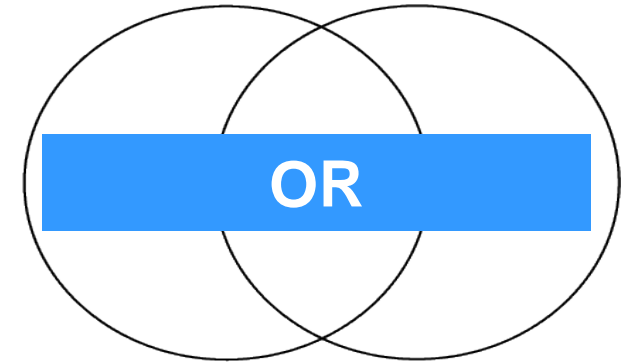
Safety issues related to wind farms particularly those located offshore

| | | | | | |
|---------------|--------------|-----------|----------------|-----------|--------|
| Idea 1 | “wind farm*” | OR | wind turbine*” | OR | |
| AND | | | | | |
| Idea 2 | maintenance | OR | inspection* | OR | access |
| AND | | | | | |
| Idea 3 | offshore | OR | | OR | |

Fourth idea could be **safe*** **OR** **risk***

Linking words (Boolean operators)

- **OR** Broadens the search
Use alternative words
- **AND** Narrows the search
More specific
- **NOT** Cuts out unwanted terms
Use with care!



Search rules – Web of Science & Scopus

- **Boolean connecting words**
 - **AND** e.g. safety AND offshore
 - **OR** e.g. safety OR risk
 - **NOT** e.g. wind NOT solar (wind AND NOT solar – Scopus)
- **Not case sensitive – do not need to use capital letters**
- **Truncation symbol ***
 - environment* looks for environment, environments, environmental, environmentalist, environmentalists
- **Wildcard symbol ?**
 - wom?n will find woman, women
- **“Phrase search”**
 - “wind turbine”
 - “word1 word2 word3” = these words in this order
 - {word1 word2 word3} used in Scopus as exact search, “ “ is a looser phrase search
- **Can use * in a phrase search**
 - “wind farm*” (but not if using the braces search, e.g. {wind farm} in Scopus)

[Home](#)[News](#)[About](#)[Support](#)[FAQ](#)[Feedback](#)

Master Journal List

Search for journals covered in the Web of Science - Core Collection (includes all journal titles covered in CA products). Note – not a search of the databases.

Search by:

Search term*:

*enter a title word, full title, or ISSN

Web of Science Service for UK Education

The **Web of Science Service for UK Education** provides a single route to all the Clarivate Analytics products subscribed to by your institution. Connect to the Web of Science Service, search using the 'All Database search' or select an individual product from the drop down list.

Check the [Subscribers List](#) to see if your institution has a [subscription](#) to Web of Science and any additional resources.

[Access now](#)

Problems with access? Try this [Alternative Link](#). Institution name, username and password required. Please note you may need to try alternative options.

Join the Web of Science mailing list where all future Web of Science news and information/updates regarding the service will be posted: mimas-wok@jiscmail.ac.uk

Service Information - Running Normally.

Please send all enquiries and report any problems about this service to the Web of Science Service for UK Education Helpdesk at: webofscience@jisc.ac.uk or alternatively you can use the [support form](#).

Useful Links.

[Explore the Master Journal List](#)[Explore Web of Science LibGuides](#)[Find out more about the Web of Science Editorial Process](#)[Explore the latest reports from the ISI](#)[Sign up to the Web of Science Group newsletter](#)

Web of Science



We're building the new Web of Science. [Click here to access the preview](#) →

Select a database Web of Science Core Collection ▾

Example: oil spill* mediterranean ✕

Topic ▾

Search

[Search tips](#)

+ Add row | Reset

Timespan

All years (1900 - 2020) ▾

[More settings](#) ▾

Web of Science

Tools ▼

Searches and alerts ▼

Search His

Select a database

Web of Science Core Collection ▼



Learn about alert

Basic SearchAuthor Search ^{BETA}

Cited Reference Search

Advanced Search

Structure Search

Example: oil spill* mediterranean



Topic



Search

Search tips

Add row

Reset

Every database looks different but they often share similar features. *Web of Science*: **Basic Search**

Note: WoS is a platform for many databases. The **Core Collection** is the default

Web of Science



Tools Searches and alerts Search History Marked List

Select a database Web of Science Core Collection

Get one-click access to full-text

Basic Search Cited Reference Search **Advanced Search** + More

Use field tags, Boolean operators, parentheses, and query sets to create your query. Results will appear in the Search History table at the bottom of the page. (Learn more about Advanced Search)

Example: TS=(nanotub* AND carbon) NOT AU=Smalley RE #1 NOT #2 more examples | view the tutorial

Search input field

Search

Restrict results by languages and document types:

All languages English All document types Article

| Booleans: AND, OR, NOT, SAME, NEAR | |
|------------------------------------|-----------------------------|
| Field Tags: | |
| TS= Topic | SA= Street Address |
| TI= Title | CI= City |
| AU= Author [Index] | PS= Province/State |
| AI= Author Identifiers | CU= Country/Region |
| GP= Group Author [Index] | ZP= Zip/Postal Code |
| ED= Editor | FA= Funding Agency |
| SO= Publication Name [Index] | FG= Grant Number |
| DO= DOI | FT= Funding Text |
| PY= Year Published | SU= Research Area |
| CF= Conference | WC= Web of Science Category |
| AD= Address | IS= ISSN/ISBN |
| OG= Organization-Enhanced [Index] | UT= Accession Number |
| OO= Organization | PMID= PubMed ID |

Web of Science: Advanced Search
The Basic Search option is satisfactory for most searches!

Web of Science

[Tools ▾](#)[Searches and alerts ▾](#)[Search Hi](#)

Select a database

Web of Science Core Collection ▾

[Learn about ale](#)[Basic Search](#)[Author Search ^{BETA}](#)[Cited Reference Search](#)[Advanced Search](#)[Structure Search](#)

Example: oil spill* mediterranean



Topic ▾

And ▾

Example: oil spill* mediterranean



Topic ▾

[Search](#)[Search tips](#)[Add row](#) | [Reset](#)

Web of Science: use **Add row** to reproduce your planning grid/matrix



Scopus

Search Sources Lists SciVal ↗



Document search

Compare sources >

Documents Authors Affiliations [Advanced](#)

[Search tips](#) ?

Search

Article title, Abstract, Keywords



E.g., "Cognitive architectures" AND robots

> Limit

Reset form

Search

Every database looks different but they often share similar features: **Scopus**

Document search

[Documents](#)[Authors](#)[Affiliations](#)[Advanced](#)

Search

E.g., "Cognitive architectures" AND robots

AND



Search

Article title, Abstract, Keywords



Article title, Abstract, Keywords



Scopus: use to reproduce your planning grid/matrix

Search approach: Method 1

Method 1

- As on your planning grid
- Multiple lines/boxes each containing an individual concept
 - Use the OR operator between each separate search word or search phrase describing an individual concept
 - Use the default AND operator between each line/box
 - Obtain results
 - Add further search terms as needed

Advantages

- Immediate results to skim, analyse, evaluate

Method 1: Standard search approach in many databases:

Each idea on a separate line. Combine in one step. Gives immediate results

Basic Search Author Search ^{BETA} Cited Reference Search Advanced Search Structure Search

| | | | | |
|-------|-------------------------------------|---|-------|---|
| | "wind farm*" OR "wind turbine*" | × | Topic | ▼ |
| And ▼ | inspection OR access OR maintenance | × | Topic | ▼ |
| And ▼ | offshore | × | Topic | ▼ |

+ Add row | Reset

Search

Results: 766
(from Web of Science Core Collection)

You searched for: TOPIC: ("wind farm*" OR "wind turbine*") AND TOPIC: (inspection OR access OR maintenance) AND TOPIC: (offshore) ...More

Create Alert

Refine Results

Search within results for...

Filter results by:

- Highly Cited in Field (5)
- Open Access (243)
- Associated Data (1)

Sort by: Date Times Cited Usage Count Relevance More ▾

◀ 1 of 77 ▶

Select Page Export... Add to Marked List

1. On offshore wind farm maintenance scheduling for decision support on vessel fleet composition
By: Gutierrez-Alcoba, A.; Hendrix, E. M. T.; Ortega, G.; et al.
EUROPEAN JOURNAL OF OPERATIONAL RESEARCH Volume: 279 Issue: 1 Pages: 124-131 Published: NOV 16 2019
 View Abstract ▾

Analyze Results
 Create Citation Report

Times Cited: 0
(from Web of Science Core Collection)

Usage Count ▾

2. A dynamic programming-based maintenance model of offshore wind turbine considering logistic delay and weather condition
By: Zhu, Wenjin; Castanier, Bruno; Bettayeb, Belgacem
RELIABILITY ENGINEERING & SYSTEM SAFETY Volume: 190 Article Number: UNSP 106512 Published: OCT 2019
 View Abstract ▾

Times Cited: 0
(from Web of Science Core Collection)

Usage Count ▾

3. Reliability prediction of an offshore wind turbine gearbox
By: Bhardwaj, U.; Teixeira, A. P.; Guedes Soares, C.

Times Cited: 0
(from Web of Science Core Collection)

Search approach: Method 2

- Method 2 (= the only available option within Medline)
 - As on your planning grid/matrix, but one step at a time
 - Single line/box
 - Idea/Concept 1: Use the OR operator between each separate alternative search word or search phrase
 - Obtain results for that single Idea/Concept – “sets”
 - Clear the search box
 - Insert the terms for Idea/Concept 2
 - Obtain results for that single Idea/Concept
 - Repeat as needed for further ideas/concepts – lots of sets of results
 - Combine the sets in different ways

Advantages:

- Flexible. Can get a “feel” for each Idea/Concept within the database. Can identify areas where search terms may need further consideration
- Can save time when carrying out more complex searches

Method 2: One idea/concept at a time. Combine in different ways. (This is the only search method available in Medline)

Basic Search

Cited Reference Search

Advanced Search

+ More

"wind farm*" OR "wind turbine*"



Topic

Basic Search

Cited Reference Search

Advanced Search

+ More

inspection* OR access OR maintenance



Topic

Basic Search

Cited Reference Search

Advanced Search

+ More

offshore



Topic

Search History

Web of Science Core Collection ▾

| Set | Results | | Edit Sets | Combine Sets <input type="radio"/> AND <input type="radio"/> OR Combine | Delete Sets Select All Delete |
|-----|-----------|---|-----------|---|-------------------------------------|
| | | Save History / Create Alert | | | |
| | | Open Saved History | | | |
| # 4 | 60,896 | TOPIC: (offshore) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 3 | 1,096,808 | TOPIC: (inspection OR access OR maintenance) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 2 | 42,054 | TOPIC: ("wind farm*" OR "wind turbine*") <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 1 | 766 | TOPIC: ("wind farm*" OR "wind turbine*") AND TOPIC: (inspection OR access OR maintenance) AND TOPIC: (offshore) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | <input type="radio"/> AND <input type="radio"/> OR Combine | Select All Delete |

Web of Science - Method 2: One idea at a time then combine in different ways. This lesser used, more traditional, approach may provide added flexibility at PGR level

Web of Science - Method 2: Use tick boxes to Combine

| Set | Results | | Save History / Create Alert | Open Saved History | Edit Sets | Combine Sets | Delete Sets |
|-----|-----------|---|-----------------------------|--------------------|-----------|--------------------------|--------------------------|
| # 9 | 310 | #8 AND #3 AND #2 <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 8 | 3,107,829 | TOPIC: (safety OR risk*) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 7 | 2,940 | #4 AND #3 <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 6 | 2,650 | #3 AND #2 <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 5 | 6,244 | #4 AND #2 <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 4 | 60,896 | TOPIC: (offshore) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 3 | 1,096,808 | TOPIC: (inspection OR access OR maintenance) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 2 | 42,054 | TOPIC: ("wind farm*" OR "wind turbine*") <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |
| # 1 | 766 | TOPIC: ("wind farm*" OR "wind turbine*") AND TOPIC: (inspection OR access OR maintenance) AND TOPIC: (offshore) <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=All years</i> | | | Edit | <input type="checkbox"/> | <input type="checkbox"/> |

Combine Sets: AND OR
Combine
Delete Sets: Select All, Delete

| | | |
|----|--|------------------------|
| 12 | (TITLE-ABS-KEY (safe* OR risk*)) AND ((TITLE-ABS-KEY (inspection OR maintenance OR access)) AND ((TITLE-ABS-KEY ("wind farm*" OR "wind turbine*") AND (TITLE-ABS-KEY (offshore)))) | 205 document res |
| 11 | (TITLE-ABS-KEY (inspection OR maintenance OR access)) AND ((TITLE-ABS-KEY ("wind farm*" OR "wind turbine*")) AND (TITLE-ABS-KEY (offshore))) | 907 document res |
| 10 | (TITLE-ABS-KEY ("wind farm*" OR "wind turbine*")) AND (TITLE-ABS-KEY (offshore)) | 7,623 document res |
| 9 | TITLE-ABS-KEY (safe* OR risk*) | 4,443,597 document res |
| 8 | TITLE-ABS-KEY (offshore) | 139,477 document res |
| 7 | TITLE-ABS-KEY (inspection OR maintenance OR access) | 1,584,076 document res |
| 6 | TITLE-ABS-KEY ("wind farm*" OR "wind turbine*") | 55,373 document res |

Scopus - Method 2: One idea at a time then combine in different ways

In *Scopus*: to combine the results of each individual idea/concept you type the set number (prefixed with #) rather than the tick box approach provided in Web of Science

Example: **#6 AND #8**



Scopus

Search Sources Lists SciVal ↗

1,392 document results

(TITLE-ABS-KEY("wind farm*" OR "wind turbine*") AND TITLE-ABS-KEY(access OR maintenance OR inspection*) AND TITLE-ABS-KEY(offshore))

Edit Save Set alert Set feed

Databases index different journals → different results

Web of Science

Search

Results: 796

(from Web of Science Core Collection)

You searched for: TOPIC: ("wind farm*" OR "wind turbine*") AND TOPIC: (inspection* OR maintenance OR access) AND TOPIC: (offshore) ...More

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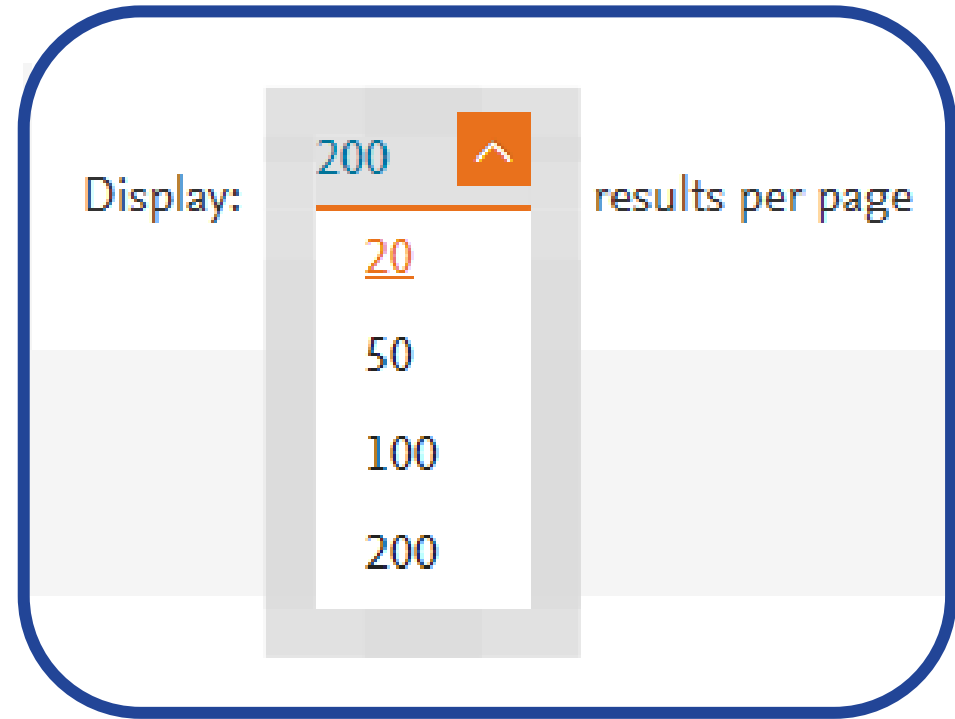
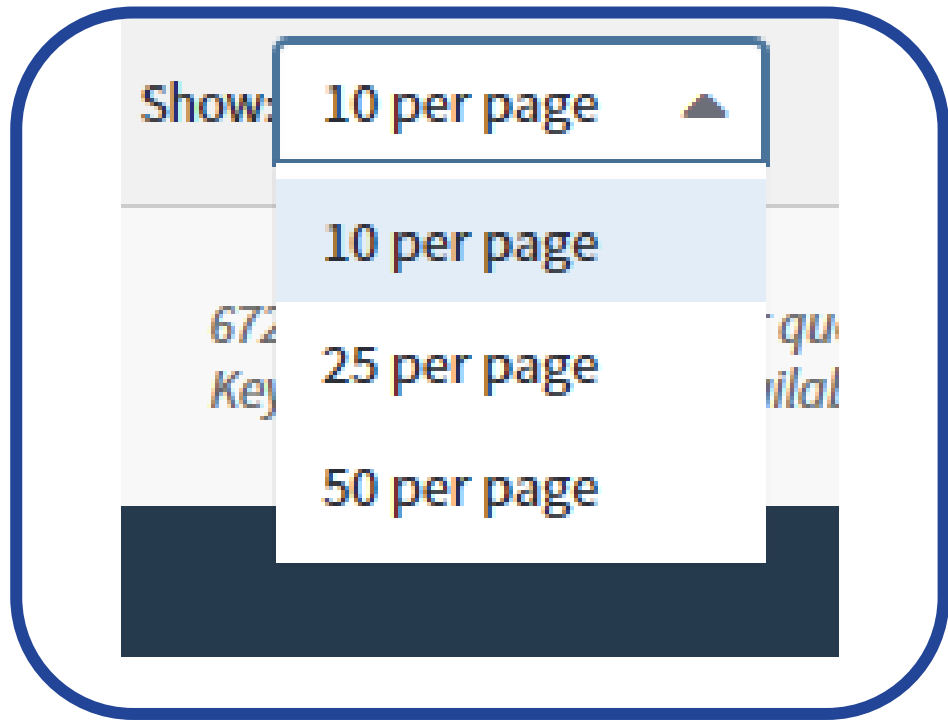
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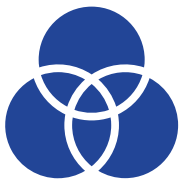
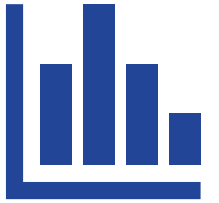
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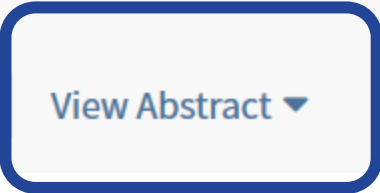
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This paper reviews various issues related to wind-power generation, one of the more popular forms of renewable energy, including attractions and challenges of electric power generation through onshore and offshore resources. Significant increases in wind-turbine dimensions, rated power-generation capacity and size of wind farm developments over the past two decades are projected to continue. Offshore wind-power generation presents many engineering challenges including: limited guidelines available for analysis and design of foundation/support structures; inadequate logistics for construction/fabrication; and comparatively expensive operation and maintenance costs, which combined result in current levelised cost of energy approximately double that for onshore wind-power generation. Different offshore foundation options are discussed in terms of general layout, loading characteristics and related fundamental natural frequency. Outlooks for some new approaches/developments and areas for further research are identified that may go towards reducing the levelised cost of energy for wind-power generation more in line with that from other energy resources, thereby enhancing the attractiveness of this industry for potential investors.

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Keywords

Author Keywords: foundations; offshore engineering; renewable energy

KeyWords Plus: PILES

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Authors: [Muhammad Arshad](#), MSc, ME, , , and [Brendan C. O’Kelly](#), PhD, FTCD, CEng, CEnv, MICE, ,

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Published Online: May 25, 2015

Keywords: [foundations](#) ; [offshore engineering](#) ; [renewable energy](#)



Offshore wind-turbine structures: a review

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2 Brendan C. O'Kelly PhD, FTCD, CEng, CEnv, MICE

Associate Professor, Department of Civil, Structural and Environmental Engineering, Trinity College Dublin, Ireland



This paper reviews various issues related to wind-power generation, one of the more popular forms of renewable energy, including attractions and challenges of electric power generation through onshore and offshore resources. Significant increases in wind-turbine dimensions, rated power-generation capacity and size of wind farm developments over the past two decades are projected to continue. Offshore wind-power generation presents many engineering challenges including: limited guidelines available for analysis and design of foundation/support structures; inadequate logistics for construction/fabrication; and comparatively expensive operation and maintenance costs, which combined result in current levelised cost of energy approximately double that for onshore wind-power generation. Different offshore foundation options are discussed in terms of general layout, loading characteristics and related fundamental natural frequency. Outlooks for some new approaches/developments and areas for further research are identified that may go towards reducing the levelised cost of energy for wind-power generation more in line with that from other energy resources, thereby enhancing the attractiveness of this industry for potential investors.

Notation

| | |
|-------------------|---|
| A | scalar |
| EI | bending stiffness |
| f_{nat} | first natural frequency |
| f_{wind} | probability density function |
| k | shape factor quantifying width of wind-speed distribution |
| L | strut length |
| M | turbine mass |

generate electricity. Wind turbines are categorised by axis of rotation of the main rotor shaft (either horizontal or vertical axis) and whether they are located onshore or offshore (Tong, 2010). For modern commercial wind turbines, the main rotor shaft is horizontally aligned. Rated power-generation capacity is mainly dependent on rotor diameter and wind speed (IRENA, 2012); for example, if wind speed increases two-fold, its energy content increases eight-fold. Two key speed terms



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^aNew and Renewable Energy Group, School of Engineering, Durham University, Durham DH1 4RL, United Kingdom

^bCREST, Loughborough University, Loughborough, United Kingdom

Abstract

Modern wind turbines are complex aerodynamic, mechanical and electrical machines incorporating sophisticated control systems. Wind turbines have been erected in increasing numbers in Europe, North America, China, India, South America, Africa, Australia, and the Middle East. Europe, Germany and Denmark have played a particularly prominent part in developing the technology, and both countries have installed large numbers of turbines. This article is concerned with understanding the historic reliability of modern wind turbines. The prime objective of the work is to extract information from existing data so that the reliability of large wind turbines can be predicted, particularly when installed **offshore** in the future. The article uses data collected from the Windstats survey to analyse the reliability of wind turbine components from historic German and Danish data. Windstats data have characteristics common to practical reliability surveys; for example, the number of failures is collected for each interval but the number of turbines varies in each interval. In this article, the authors use reliability analysis methods which are not only applicable to wind turbines but relate to any repairable system. Particular care is taken to compare results from the two populations to consider the validity of the data. The main purpose of the article is to discuss the practical methods of predicting large-wind-turbine reliability using grouped survey data from Windstats and to show how turbine design, turbine configuration, time, weather and possibly **maintenance** can affect the extracted results. Copyright © 2006 John Wiley & Sons, Ltd.

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British Education Index (EBSCO)

19??

The British Education Index database provides bibliographic references to hundreds of British and selected European English-language periodicals in the field of education and training. Monographic, report and conference literature is limited, but increasing - full text links are provided to selected European education conferences. There are also thousands of records for UK theses. Content ranges from early years education to the education of older adults, including coverage of relevant training and management literature.

[Available Online >](#)

IBSS - International Bibliography of the Social Sciences (ProQuest)

19??

International Bibliography of the Social Sciences (IBSS) focuses on the four core social science disciplines: anthropology, economics, politics and sociology. The database also covers interdisciplinary subjects and supporting subjects ranging from



DATABASE

MEDLINE (Ovid)

19??

Produced by the US National Library of Medicine, the MEDLINE database is widely recognised as the premier source for bibliographic and abstract coverage of biomedical literature. There is a focus on clinical medicine and biomedical literature, including pathology, surgery and all clinical medical specialities. MEDLINE encompasses information from Index Medicus, Index to Dental Literature, and International Nursing, as well as other sources of coverage in the areas of allied health, biological and physical sciences, humanities and information science as they relate to medicine and health care, communication disorders, population biology, and reproductive biology. Millions of records from thousands of journals are indexed, plus selected monographs of congresses and symposia (1976-1981). Abstracts are included for most records.

[Available Online >](#)

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Full text availability

[MEDLINE \(Ovid\)](#)



Link through to the Ovid platform where Medline and other medical/health databases reside

Select Resource(s) to search:

- All Resources**
- Journals@Ovid Full Text February 03, 2020 i
- Your Journals@Ovid i
- PsycARTICLES Full Text i

- EBM Reviews - ACP Journal Club 1991 to January 2020 i
- EBM Reviews - Cochrane Central Register of Controlled Trials December 2019 i
- EBM Reviews - Cochrane Database of Systematic Reviews 2005 to January 29, 2020 i
- EBM Reviews - Cochrane Clinical Answers January 2020 i
- EBM Reviews - Cochrane Methodology Register 3rd Quarter 2012 i
- EBM Reviews - Database of Abstracts of Reviews of Effects 1st Quarter 2016 i
- EBM Reviews - Health Technology Assessment 4th Quarter 2016 i
- EBM Reviews - NHS Economic Evaluation Database 1st Quarter 2016 i
- EBM Reviews Full Text - Cochrane DSR, ACP Journal Club, CCA, and DARE i
- All EBM Reviews - Cochrane DSR, ACP Journal Club, DARE, CCA, CCTR, CMR, HTA, and NHSEED i

OK

Add Group

Delete Group

TIP: we recommend use of Ovid Medline (not Pubmed)

Select Resource(s) to search:

- Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 2015 to February 03, 2020
- Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily without Revisions 2015 to February 03, 2020
- Ovid MEDLINE(R) 1946 to January Week 4 2020
- Ovid MEDLINE(R) without Revisions 1996 to January Week 4 2020
- Ovid MEDLINE(R) without Revisions 1946 to 1995
- Ovid MEDLINE(R) Epub Ahead of Print February 03, 2020
- Ovid MEDLINE(R) Daily Update February 03, 2020
- Ovid MEDLINE(R) 2015 to January Week 4 2020
- PsycINFO 2002 to January Week 4 2020
- PsycINFO 1987 to January Week 4 2020
- PsycINFO 1967 to January Week 4 2020
- PsycINFO 1806 to January Week 4 2020
- PsycINFO 1806 to 1966

Many entries for Medline – click on the entry for the year range you require

Access from on- and off-campus



Remote access to resources – covered in Part 1

To access our electronic books, journals and databases you must prove that you are a student from University of Aberdeen (= authentication)

- Several authentication/login methods used by our suppliers
 - Use **Primo > Find Databases** route for reliable access
 - **Shibboleth/Institution login** works on and off campus – for most databases. (A very small number require use of VDI)
 - Virtual Desktop Infrastructure (VDI) – makes your personal PC look as if it is a classroom PC. Access to classroom software...
 - **Using the VDI is essential if you are off campus and want to access classroom specific software**
- Toolkit (Remote Access module) and Library guides available

Finishing off...

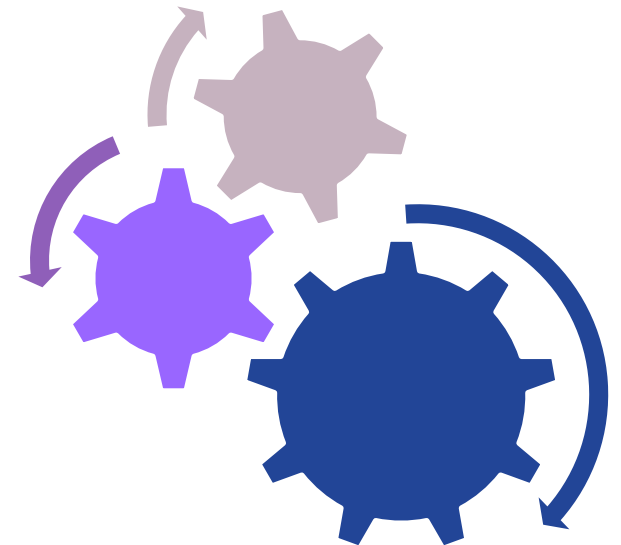


Why use databases?

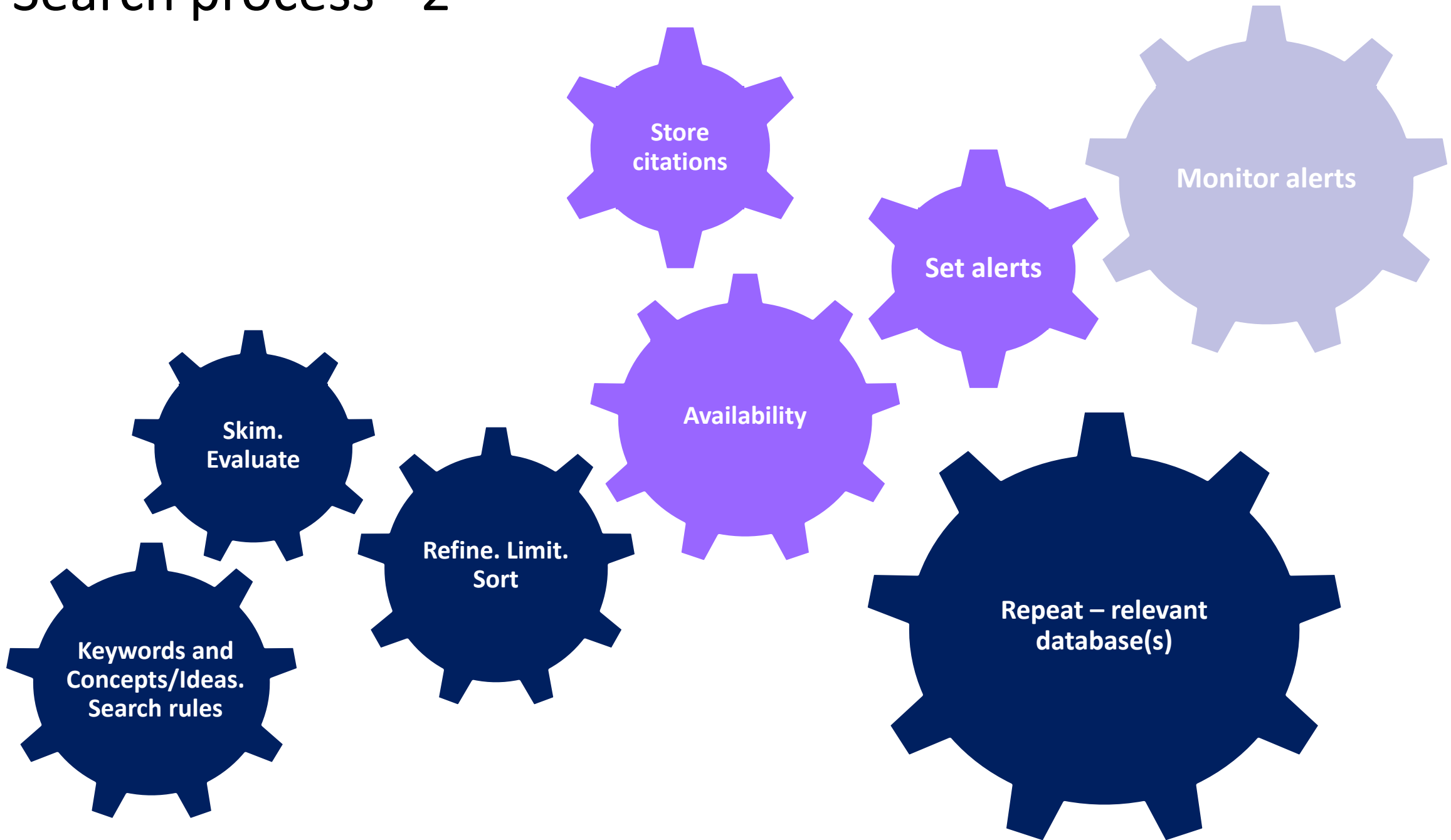
- **Essential** that you use research information in support of your research reading
 - Academic databases contain information about research published in journals, at seminars and conferences
 - Databases offer powerful searching, sorting, displaying and alerting features
 - If we could get by using just Google and Google Scholar we wouldn't spend >£300,000 each year on databases
- Most effective way to find out about published academic research is to search across academic databases
 - Time-saving features, e.g. personal accounts to save lists and complex search strategies, run saved searches, “push” features from Alerts
 - Analytical options (not covered in this workshop)

Databases – search process

- Plan your search, check search rules
- Link to relevant database (use Primo – Find Databases for this, not Google!)
- Try a quick/simple search – any results?
- Improve your search using your search plan/matrix
 - Remember to apply search rules correctly – each database may have own rules
- View and Evaluate results
 - Skim titles and abstracts
 - Check keywords used in relevant papers
 - Refine, limit, sort results
- Check availability – full text, paper format, not held
- Record/Manage your results
- Repeat in other relevant databases
- Critical Appraisal of found papers



Search process - 2



Complying with copyright – your responsibility



Basic allowances: 1 chapter from a book, 1 article from a journal

However, some publishers work with more generous restrictions within our online licences e.g.:

- ScienceDirect (Elsevier)
 - Books: can download multiple chapters
 - Journal articles: can download multiple papers from a relevant issue of a journal
- SpringerLink (Springer)
 - Books: can download complete book or multiple chapters
 - Journal articles: can download multiple papers from a relevant issue of a journal

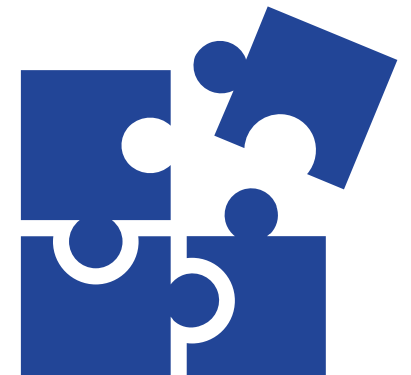
All publishers monitor downloads and will contact us if misuse, e.g. mass download occurs. Our advice is to take only those items that are required for personal study/research

Aim and outline

Feel confident that you can make effective use of databases to find **journal articles** and **research level material** to support your research

[Note – we covered books and other support materials in Part 2 of this series, and the basics – planning a search – in Part 1]

- Identify suitable and relevant databases
- Highlight powerful search features
- Introduce the idea of managing references



Library: Help & support - Subject contacts

- Arts & Humanities
 - Ewan Grant – e.grant@abdn.ac.uk
- Business & Law
 - Janet MacKay – j.i.mackay@abdn.ac.uk
- Dentistry, Medicine & Medical Sciences
 - Mel Bickerton – m.bickerton@abdn.ac.uk
- Education & Social Science
 - Claire Molloy - c.a.l.molloy@abdn.ac.uk
- Engineering, Life & Physical Sciences
 - Susan McCourt – s.mccourt@abdn.ac.uk
- General
 - Eleni Borompoka – eleni.boro@abdn.ac.uk



<https://www.abdn.ac.uk/library/support/contacts-106.php#panel162>

Going further – next year

- **Library session – RefWorks (basics)**
 - Reference management – RefWorks software
- **Library induction**
 - Monthly slots
 - Will be added to the course booking system
- **Critical Appraisal of the Literature (Life & Physical Sciences)**
 - To be arranged (a March or April date is likely)

All confirmed workshops are listed in the course booking system

