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碩睿資訊 2021

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Engineering Village（簡稱EV）

由美國Elsevier Engineering Information Inc. 所出版，為一**平台**名稱，內含多個子庫，提供工程領域資訊的**文獻索摘資料庫**。

EV 包含資料庫

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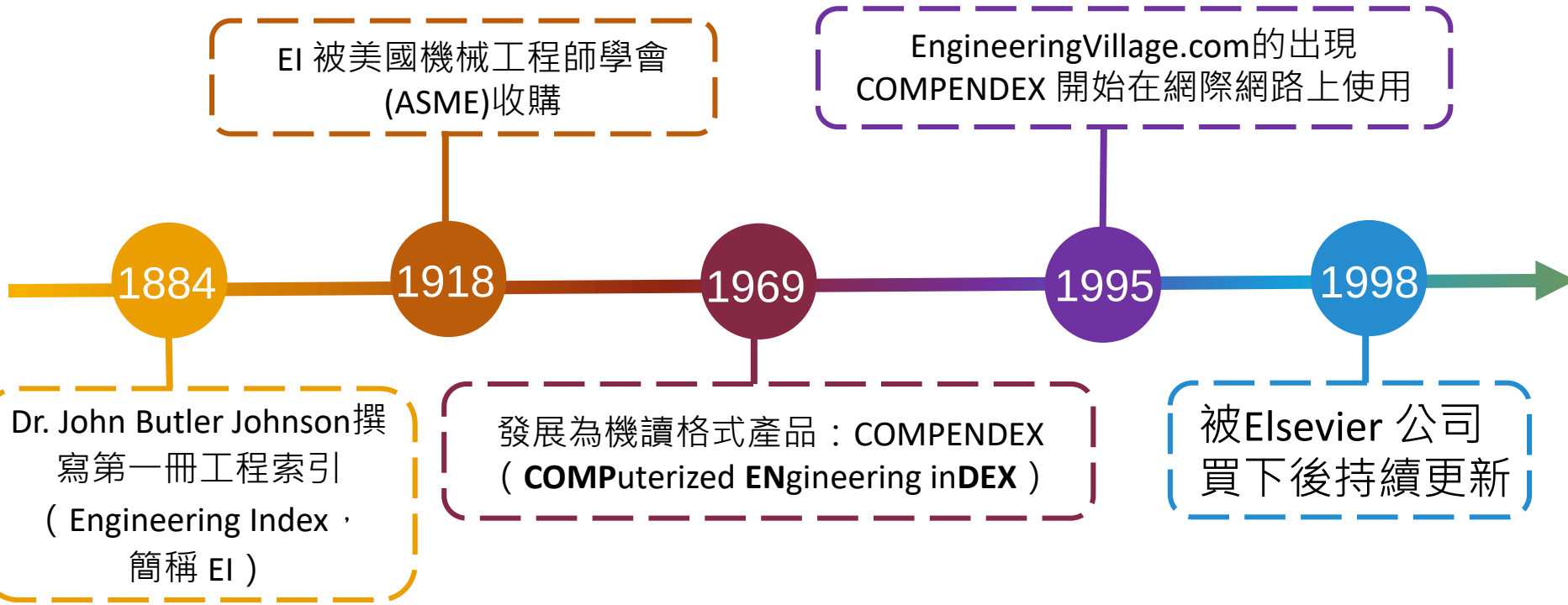
Compendex 小故事



EI 為 COMPENDEX 前身，目前多以訂購 COMPENDEX為主

如需得知文獻是否被 EI收錄，**在 EV 平台的 COMPENDEX 查詢即可！**

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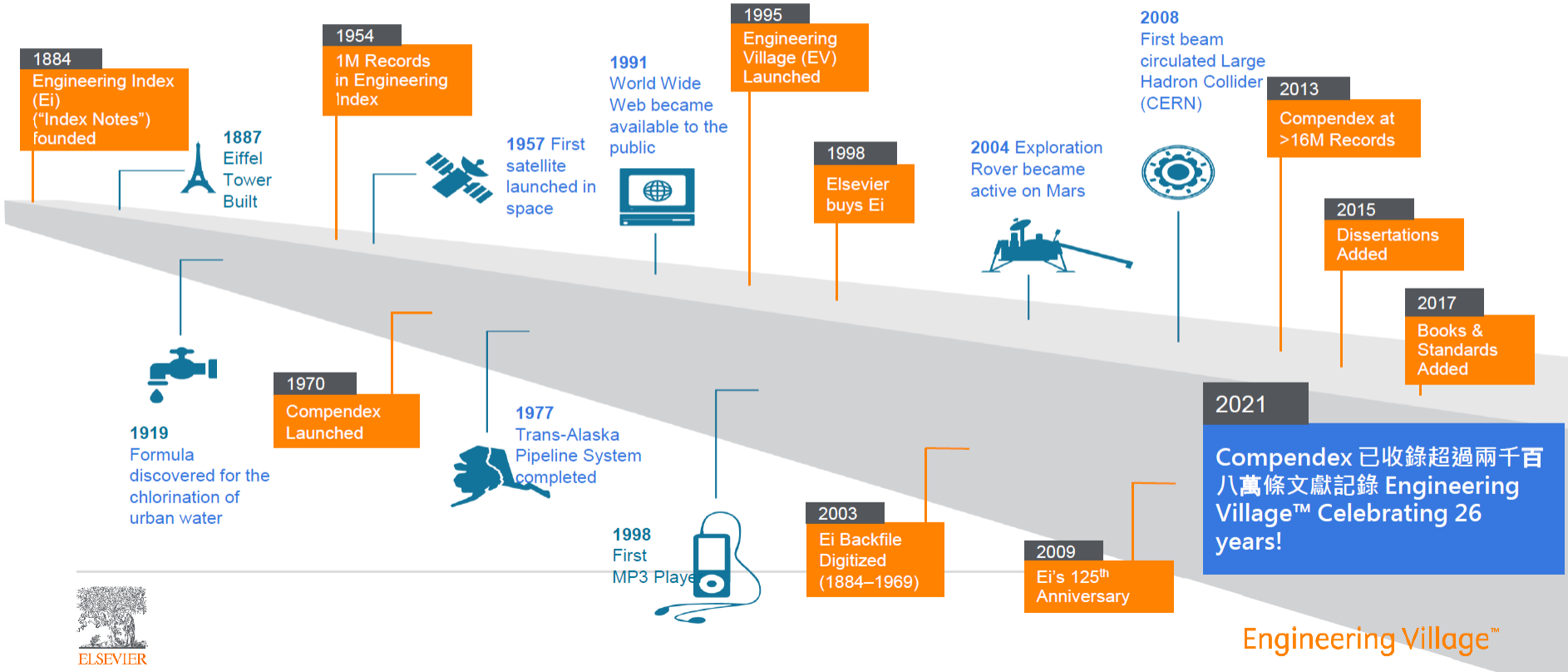
長達135年的工程文獻索引歷史



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是世界上涵蓋面最廣最完整的工程文獻數據庫

~2800萬條文獻記錄 (1970年至今)
並正在持續增長

>178萬條記錄
來自Ei Backfile
1884年至1969年

每年增加
1300萬條記錄
1970年至今

通過DOIs實現全文連結
涵蓋190個工程相關領域、
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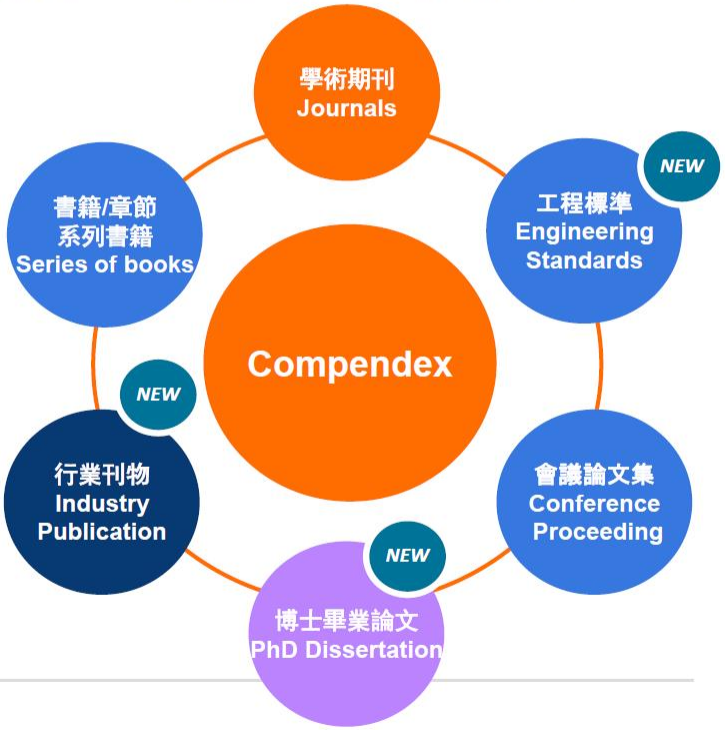

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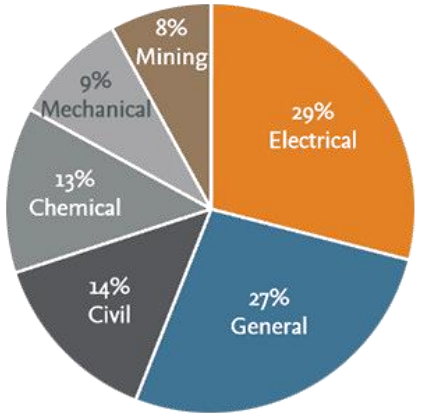
Compendex

- 收錄年代：1969年至今
- 5,600多種工程研討會、期刊、商業雜誌、會議記錄和技術報告資料
- 資料量：超過 2200 萬筆，每年新增約 65 萬筆資料
- 包含 190 種工程領域學科，如：**化學工程**、**土木工程**、**礦業**、**機械工程**、**電子工程**、環境、結構、材料科學、固態物理學、超導體、生物工程學、能源、光學、空氣和水污染、固態廢棄物處理、道路運輸、運輸安全、應用工程、　品質管理、工程管理等
- 收錄超過77個國家的出版品
- 更新頻率：每日更新
- 回溯期刊： 1884年-1968年



Ei Compendex cross-disciplinary areas

INSPEC

- 收錄資料自1969年至今
- 收錄全球電子工程、電子學、物理學、控制工程、資訊科技、通訊學、電子計算機等科學文獻
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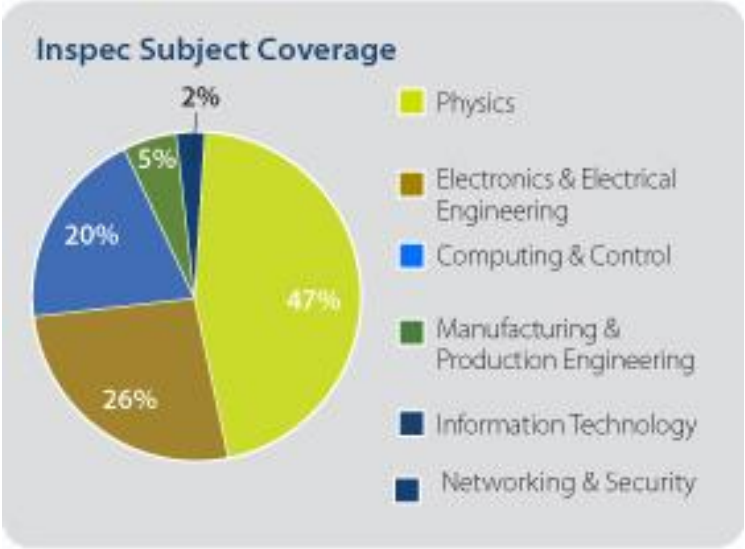

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- **Refine Results** ：提供**多種欄位**支援精確搜尋，並可做成圖表

  如：控制詞彙、分類號、文件形式、刊名等（共11種）

- **專家思維**：工程領域專家學者分類之控制詞彙

  – Thesaurus 索引典

- **使用者思維**：自然語彙 – Tag 標籤

- **專業的專家檢索模式**：可自行輸入搜尋語法

檢索技巧

- 右切截 (*)
  - 輸入**comput***，可找到
    computer
    computers
    computerize
    computerization
- 萬用字元(?)
  - 使用問號可以代表一個字母
  - 例如輸入wom?n ，可以找到 woman
    或 women的資料

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Quick Search - 快速檢索

Expert Search - 專家檢索

Thesaurus search - 索引典檢索

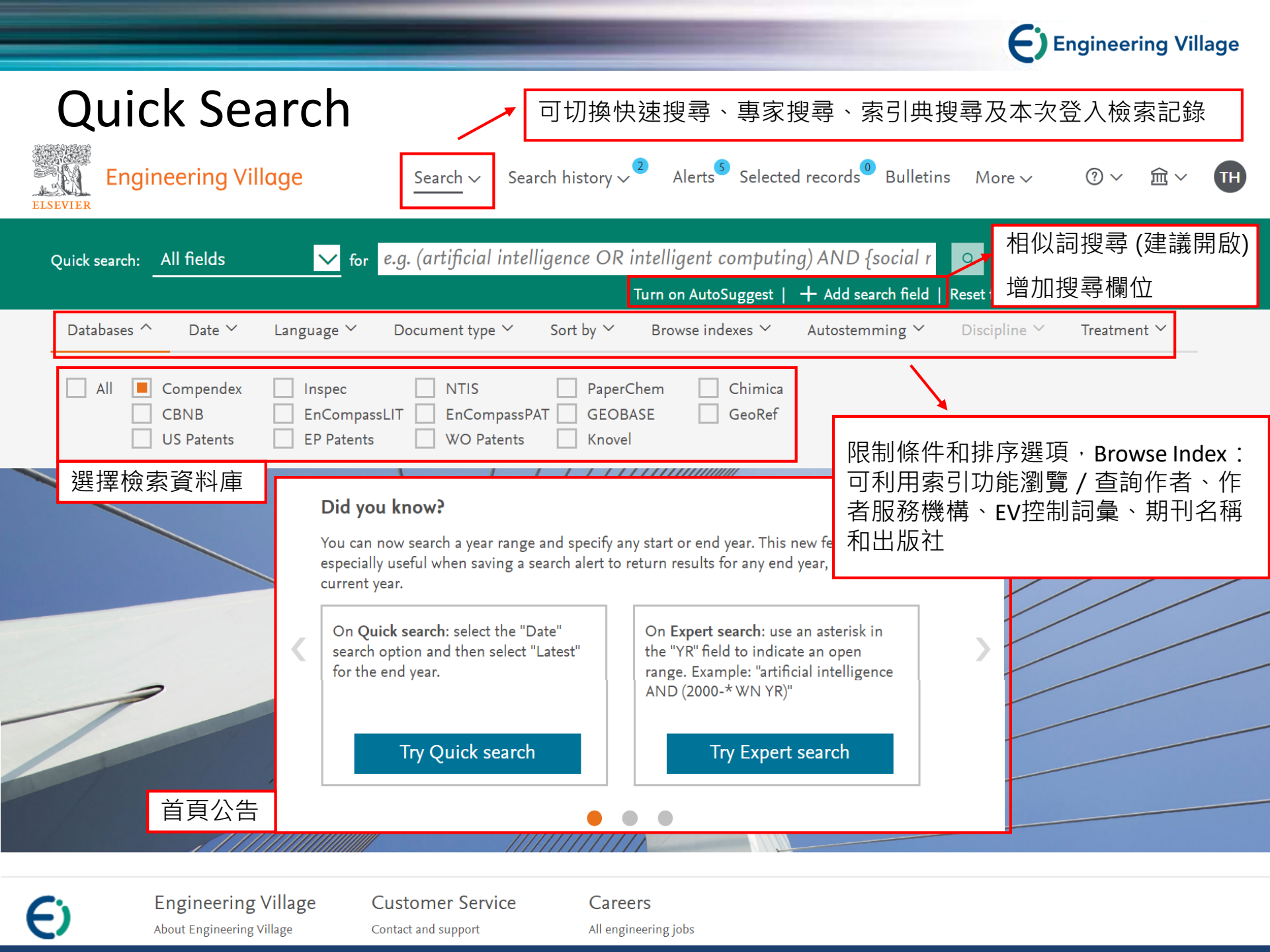
Author Search - 作者檢索

Affiliation Search - 機構檢索

Engineering Research Profile - 工程研究機構檢索

Quick Search – 快速搜尋

Quick Search



結果頁面 - 1

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檢索結果後系統自動提供關聯關鍵詞
Quick search: All fields for artificial intelligence
Suggested terms: Learning Systems Computer Science Computers Neural Networks Semantics
Turn on AutoSuggest | Add search field | Reset form
Databases Date Language Document type Sort by Browse indexes Autostemming Discipline Treatment
773,927 records found in Compendex & Ei Backfile for 1884-2020: ((artificial intelligence) WN ALL)
1 of 30,958 pages
Create alert Save search Share search RSS feed
Sort by: Relevance
Refine
By physical property
Filter results by physical properties such as size, temperature, pressure and many more.
By category Download all
Limit to Exclude
Add a term
Access type
Open Access (29,035)
Other (744,892)
Controlled vocabulary
Artificial Intelligence (233,863)
Learning Systems (60,081)
Computer Science (47,568)
左側可對檢索結果進一步限縮
Display: 25 results per page
1. Research and implementation of financial decision model based on artificial intelligence
Zhao, Desheng (Langfang Ploytechnic Institute, Hebei Langfang, China); Liu, Xiaoyu Source: Agro Food Industry Hi-Tech, v 28, n 3, p 2576-2579, May-June 2017
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Document type: Journal article (JA)
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2. English speech recognition based on artificial intelligence
Bai, Tana (Liren College, Yanshan University, China) Source: Agro Food Industry Hi-Tech, v 28, n 3, p 2259-2263, May-June 2017
Database: Compendex
Document type: Journal article (JA)
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文獻內容-摘要形式/文獻內容-詳細格式
3. Developing artificial intelligence services that satisfy customer demands. Moving forward with social implementation of corevo® technologies
ories, United Kingdom) Source: NTT Technical Review, v 16, n 8, p 7-11,
Document type: Journal article (JA)
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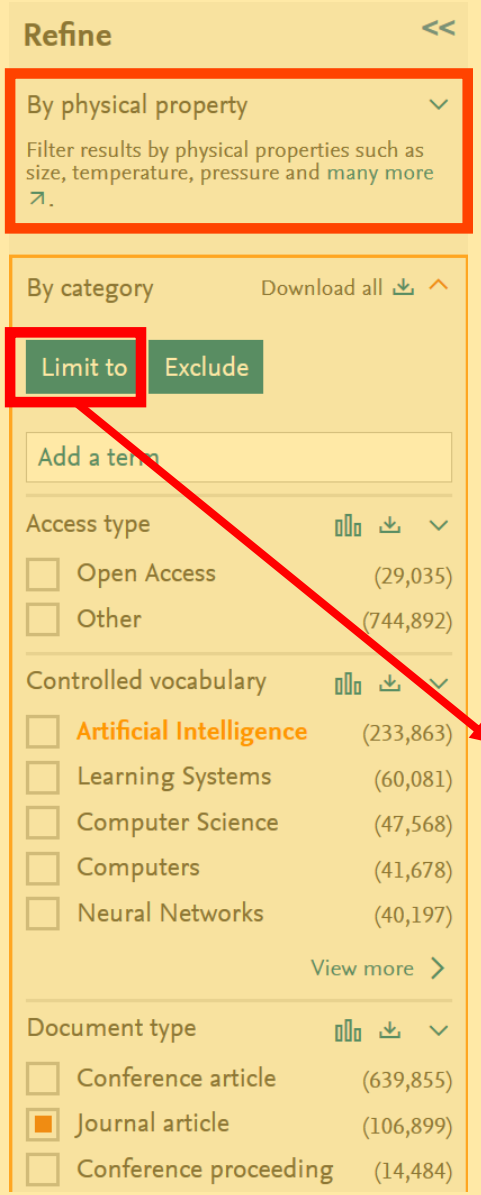
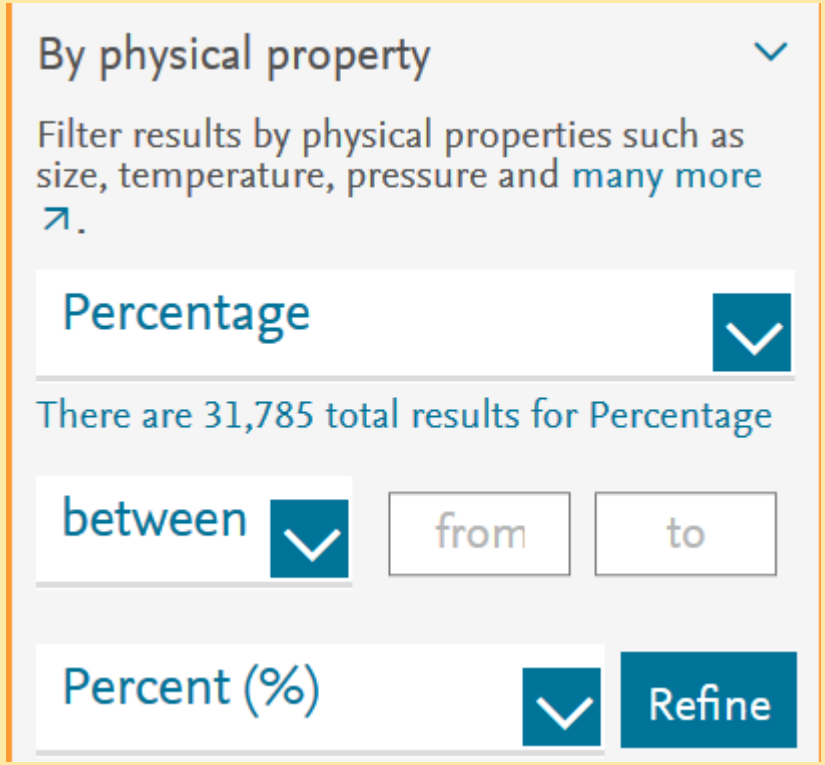
結果頁面 - 1





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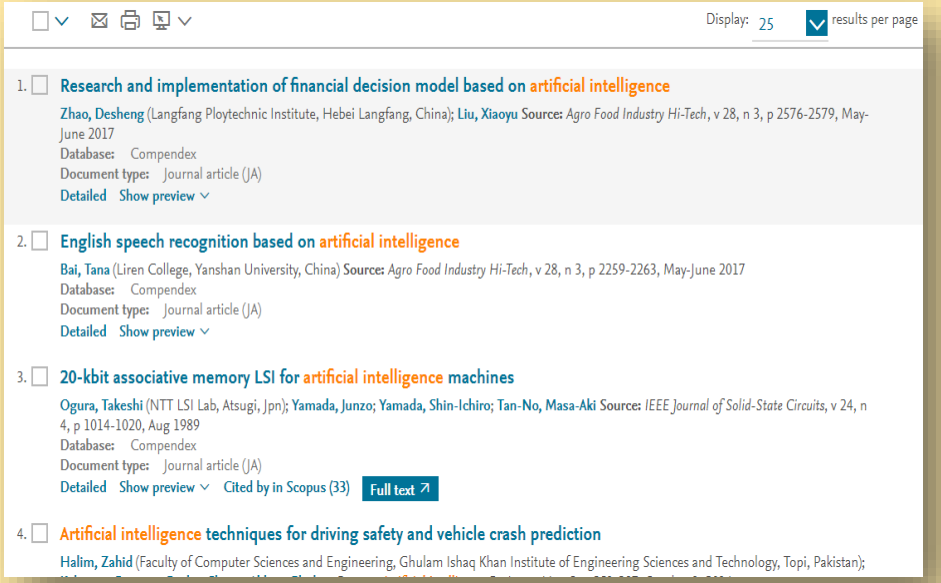

結果頁面 - 2

Selected Records：暫存文章
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106,899 records found in Compendex for 1884-2020: ((artificial intelligence) WN ALL) × + {ja} WN DT ×

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可依照相關程度、日期、作者、文獻來源、出版者排序（預設為相關程度）；在相同條件之下，再依降冪或升冪規則排序

Refine <<

By physical property

Filter results by physical properties such as size, temperature, pressure and many more.

By category Download all

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Access type
- Open Access (8,352)
- Other (98,547)

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- Artificial Intelligence (45,910)
- Learning Systems (11,667)
- Neural Networks (9,185)
- Decision Support Systems (6,551)
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1. **Research and implementation of finan**
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2. **English speech recognition based on artificial intelligence**
Bai, Tana (Liren College, Yanshan University, China) Source: *Agro Food Industry Hi-Tech*, v 28, n 3, p 2259-2263, May-June 2017
Database: Compendex
Document type: Journal article (JA)
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3. **Developing artificial intelligence services that satisfy customer demands: Moving forward with social implementation of corevo® technologies**
Ozawa, Hideaki (NTT Media Intelligence Laboratories, United Kingdom) Source: *NTT Technical Review*, v 16, n 8, p 7-11, August 2018
Database: Compendex
Document type: Journal article (JA)
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4. **20-kbit associative memory LSI for artificial intelligence machines**
Ogura, Takeshi (NTT LSI Lab, Atsugi, Jpn); Yamada, Junzo; Yamada, Shin-Ichiro; Tan-No, Masa-Aki Source: *IEEE Journal of Solid-State Circuits*, v 24, n 4, p 1014-1020, Aug 1989
Database: Compendex
Document type: Journal article (JA)
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By category Download all

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Add a term

Access type
- Open Access (8,352)
- Other (98,547)

Controlled vocabulary
- Artificial Intelligence (45,910)
- Learning Systems (11,667)
- Neural Networks (9,185)
- Decision Support Systems (6,551)
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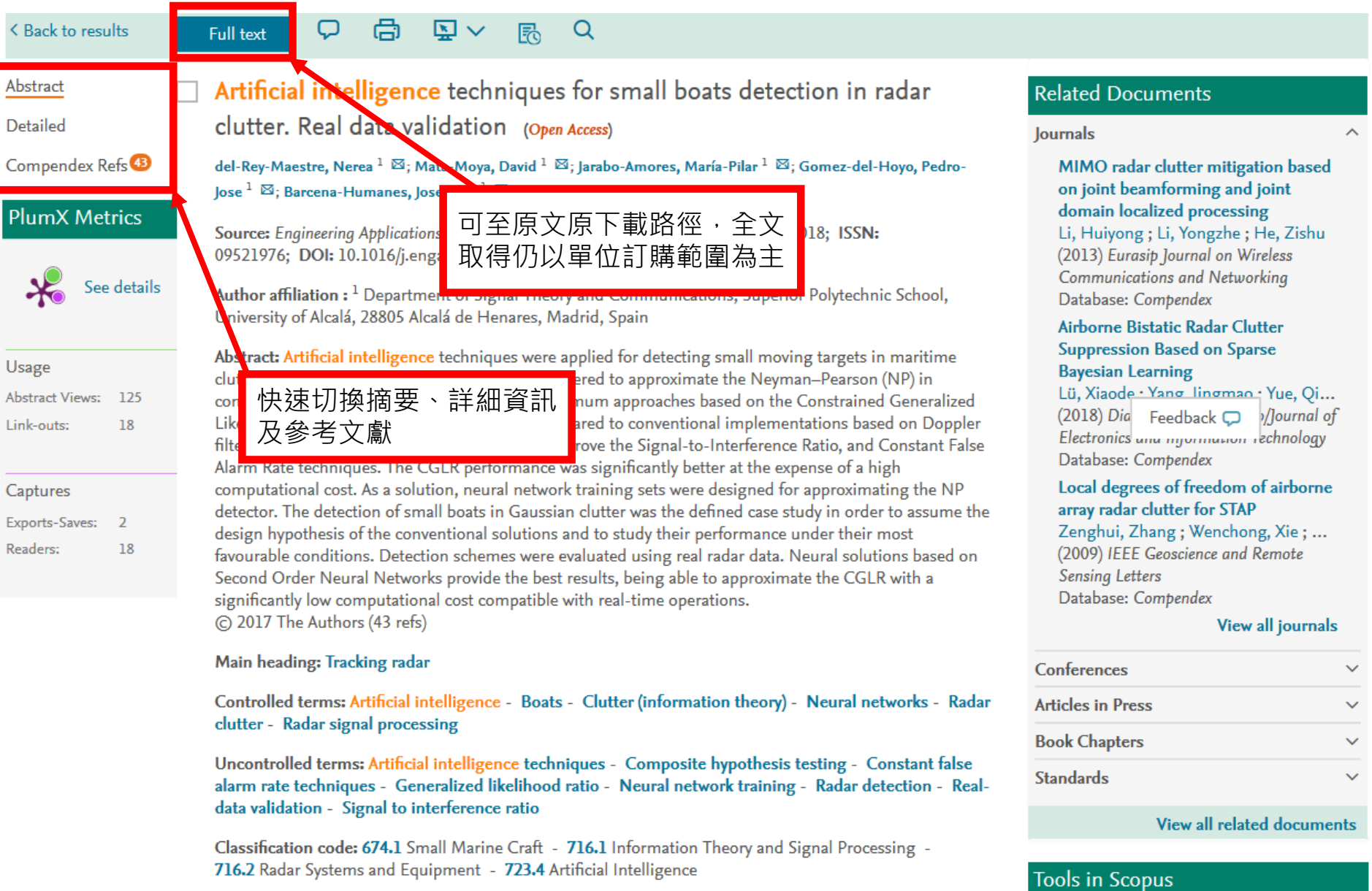
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Artificial intelligence techniques for small boats detection in radar clutter. Real data validation (Open Access)
del-Rey-Maestre, Nerea [1]; Mata-Moya, David [1]; Jarabo-Amores, María-Pilar [1]; Gomez-del-Hoyo, Pedro-Jose [1]; Barcena-Humanes, Jose
Source: Engineering Applications
018; ISSN: 09521976; DOI: 10.1016/j.eng
Author affiliation : [1] Department of Signal Theory and Communications, Superior Polytechnic School, University of Alcalá, 28805 Alcalá de Henares, Madrid, Spain
Abstract: Artificial intelligence techniques were applied for detecting small moving targets in maritime clut
ered to approximate the Neyman–Pearson (NP) in
con
num approaches based on the Constrained Generalized
Lik
ared to conventional implementations based on Doppler
filte
rove the Signal-to-Interference Ratio, and Constant False Alarm Rate techniques. The CGLR performance was significantly better at the expense of a high computational cost. As a solution, neural network training sets were designed for approximating the NP detector. The detection of small boats in Gaussian clutter was the defined case study in order to assume the design hypothesis of the conventional solutions and to study their performance under their most favourable conditions. Detection schemes were evaluated using real radar data. Neural solutions based on Second Order Neural Networks provide the best results, being able to approximate the CGLR with a significantly low computational cost compatible with real-time operations.
© 2017 The Authors (43 refs)
Main heading: Tracking radar
Controlled terms: Artificial intelligence - Boats - Clutter (information theory) - Neural networks - Radar clutter - Radar signal processing
Uncontrolled terms: Artificial intelligence techniques - Composite hypothesis testing - Constant false alarm rate techniques - Generalized likelihood ratio - Neural network training - Radar detection - Real-data validation - Signal to interference ratio
Classification code: 674.1 Small Marine Craft - 716.1 Information Theory and Signal Processing - 716.2 Radar Systems and Equipment - 723.4 Artificial Intelligence
可至原文原下載路徑，全文取得仍以單位訂購範圍為主
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MIMO radar clutter mitigation based on joint beamforming and joint domain localized processing
Li, Huiyong ; Li, Yongzhe ; He, Zishu
(2013) Eurasip Journal on Wireless Communications and Networking
Database: Compendex
Airborne Bistatic Radar Clutter Suppression Based on Sparse Bayesian Learning
Lü, Xiaode ; Yang, Jingmao ; Yue, Qi...
(2018) Dia
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/Journal of Electronics and Information Technology
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Local degrees of freedom of airborne array radar clutter for STAP
Zenghui, Zhang ; Wenchong, Xie ; ...
(2009) IEEE Geoscience and Remote Sensing Letters
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ISSN：找到更多關於這本期刊的文章

Abstract：文章內容摘要

Main heading：主要主題

Controlled term：索引詞彙標準

Uncontrolled term：相關主題的廣義分類

Classification code：在來源中其他附加優勢的字彙和片語

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Artificial intelligence techniques for small boats detection in radar clutter. Real data validation (Open Access)

Accession number: 20174504373485

Authors: del-Rey-Maestre, Nerea [1] ✉; Mata-Moya, David [1] ✉; Jarabo-Amores, María-Pilar [1] ✉; Gomez-del-Hoyo, Pedro-Jose [1] ✉; Barcena-Humanes, Jose-Luis [1] ✉

Author affiliation : [1] Department of Signal Theory and Communications, Superior Polytechnic School, University of Alcalá, 28805 Alcalá de Henares, Madrid, Spain

Corresponding author: Mata-Moya, David (david.mata@uah.es)

Source title: Engineering Applications of Artificial Intelligence

Abbreviated source title: Eng Appl Artif Intell

Volume: 67

Issue date: January 2018

Publication Year: 2018

Pages: 296-308

Language: English

ISSN: 09521976

CODEN: EAAIE6

Document type: Journal article (JA)

Publisher: Elsevier Ltd

Abstract: Artificial intelligence techniques were applied for detecting small moving targets in maritime clutter environments. Neural detectors are considered to approximate the Neyman–Pearson (NP) in composite hypothesis testing problems. Sub-optimum approaches based on the Constrained Generalized Likelihood Ratio (CGLR) were analysed, and compared to conventional implementations based on Doppler filtering that are designed to filter clutter and improve the Signal-to-Interference Ratio, and Constant False Alarm Rate techniques. The CGLR performance was significantly better at the expense of a high computational cost. As a solution, neural network training sets were designed for approximating the NP detector. The detection of small boats in Gaussian clutter was the defined case study in order to assume the design hypothesis of the conventional solutions and to study their performance under their most favourable conditions. Detection schemes were evaluated using real radar data. Neural solutions based on

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Li, Huiyong ; Li, Yongzhe ; He, Zishu
(2013) *Eurasip Journal on Wireless Communications and Networking*
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Airborne Bistatic Radar Clutter Suppression Based on Sparse Bayesian Learning
Lü, Xiaode ; Yang, Jingmao ; Yue, Qi ; Zh...
(2018) *Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology*
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Artificial intelligence techniques for small boats detection in radar clutter. Real data validation (*Open Access*)

del-Rey-Maestre, Nerea (Department of Signal Theory and Communications, Superior Polytechnic School, University of Alcalá, 28805 Alcalá de Henares, Madrid, Spain) ; **Mata-Moya, David** ; **Jarabo-Amores, María-Pilar** ; **Gomez-del-Hoyo, Pedro-Jose** ; **Barcena-Humanes, Jose-Luis**

Database: Compendex

43 references in Compendex:

1. **A new learning algorithm for blind signal separation**
   Amari, S. ; **Cichoki, A.** ; **Yang, H.**
   Adv. Neural Inf. Process. Syst., v 10, p 1351-1435, **1996**

2. **[No title available]**
   Aref, M.
   p 1-260, **1994**

3. **Neural Networks for Pattern Recognition**
   Bishop, C.
   1995

4. **Small-target detection in high-resolution heterogeneous sea-clutter: An empirical analysis**
   Carretero-Moya, J. ; **Gismero-Menoyo, J.** ; **Asensio-Lopez, A.** ; **del Campo, A.B.**
   IEEE Trans. Aerosp. Electron. Syst., v 47, n 3, p 1880-1898, **2011**

5. **[No title available]**
   Cheikh, K.
   p 100-103, **2011**

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Li, Huiyong ; Li, Yongzhe ; H
(2013) *Eurasip Journal on Wire Communications and Network*
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Artificial intelligence techniques for small boats detection in radar clutter. Real data validation (Open Access)

Accession number: 20174504373485

Authors: del-Rey-Maestre, Nerea [1] ✉; Mata-Moya, David [1] ✉; Jarabo-Amores, María-Pilar [1] ✉; Gomez-del-Hoyo, Pedro-Jose [1] ✉; Barcena-Humanes, Jose-Luis [1] ✉

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Publisher: Elsevier Ltd

Abstract: Artificial intelligence techniques were applied for detecting small moving targets in maritime clutter environments. Neural detectors are considered to approximate the Neyman–Pearson (NP) in composite hypothesis testing problems. Sub-optimum approaches based on the Constrained Generalized Likelihood Ratio (CGLR) were analysed, and compared to conventional implementations based on Doppler filtering that are designed to filter clutter and improve the Signal-to-Interference Ratio, and Constant False Alarm Rate techniques. The CGLR performance was significantly better at the expense of a high computational cost. As a solution, neural network training sets were designed for approximating the NP detector. The detection of small boats in Gaussian clutter was the defined case study in order to assume the design hypothesis of the conventional solutions and to study their performance under their most favourable conditions. Detection schemes were evaluated using real radar data. Neural solutions based on Second Order Neural Networks provide the best results, being able to approximate the CGLR with a significantly low

Related Documents

Journals

MIMO radar clutter mitigation based on joint beamforming and joint domain localized processing
Li, Huiyong ; Li, Yongzhe ; He, Zishu
(2013) *Eurasip Journal on Wireless Communications and Networking*
Database: *Compendex*

Airborne Bistatic Radar Clutter Suppression Based on Sparse Bayesian Learning
Lü, Xiaode ; Yang, Jingmao ; Yue, Qi ; Zh...
(2018) *Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology*
Database: *Compendex*

Local degrees … borne array radar clutter for STAP
Zenghui, Zhang ; Wenchong, Xie ; Weid...
(2009) *IEEE Geoscience and Remote Sensing Letters*
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此功能可以瞭解此篇文章自發表後持續被使用與關注的情形，即時掌握文章被使用情形，並觀測網路上的各種意見，以促進更多的學術交流與互動。

PlumX Metrics提供5大指標:

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文獻加值內容：PlumX Metrics

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Citation data: Artificial Intelligence Review, ISSN: 0269-2821, Vol: 46, Issue: 3, Page: 351-387
Publication Year: 2016

Explore PlumX Metrics

What are PlumX Metrics? How can they help tell the story about this research? How can I use them?

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ARTICLE SUMMARY

DOI:

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AUTHOR(S):

Zahid Halim; Rizwana Kalsoom; Shariq Bashir; Ghulam Abbas

PUBLISHER(S):

Springer Nature

TAGS:

ARTICLE DESCRIPTION

Accident prediction is one of the most critical aspects of road safety, whereby an accident can be predicted before it actually occurs and precautionary measures taken to avoid it. For this purpose, accident prediction models are popular in road safety analysis. Artificial intelligence (AI) is used in many real world applications, especially where outcomes and data are not same all the

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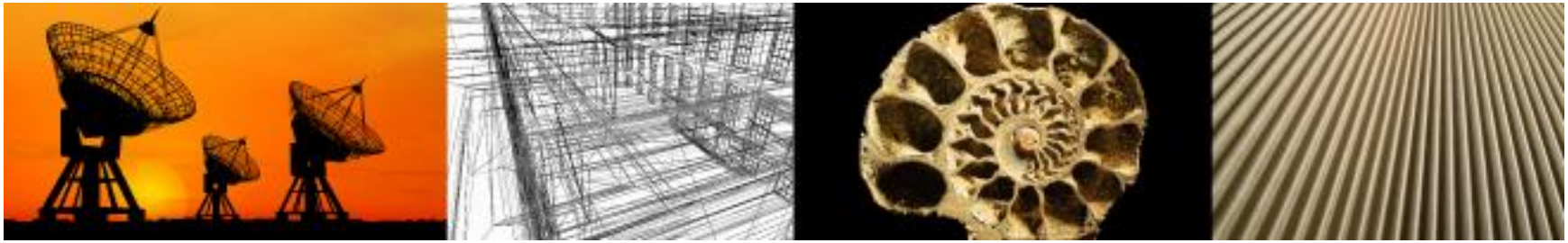

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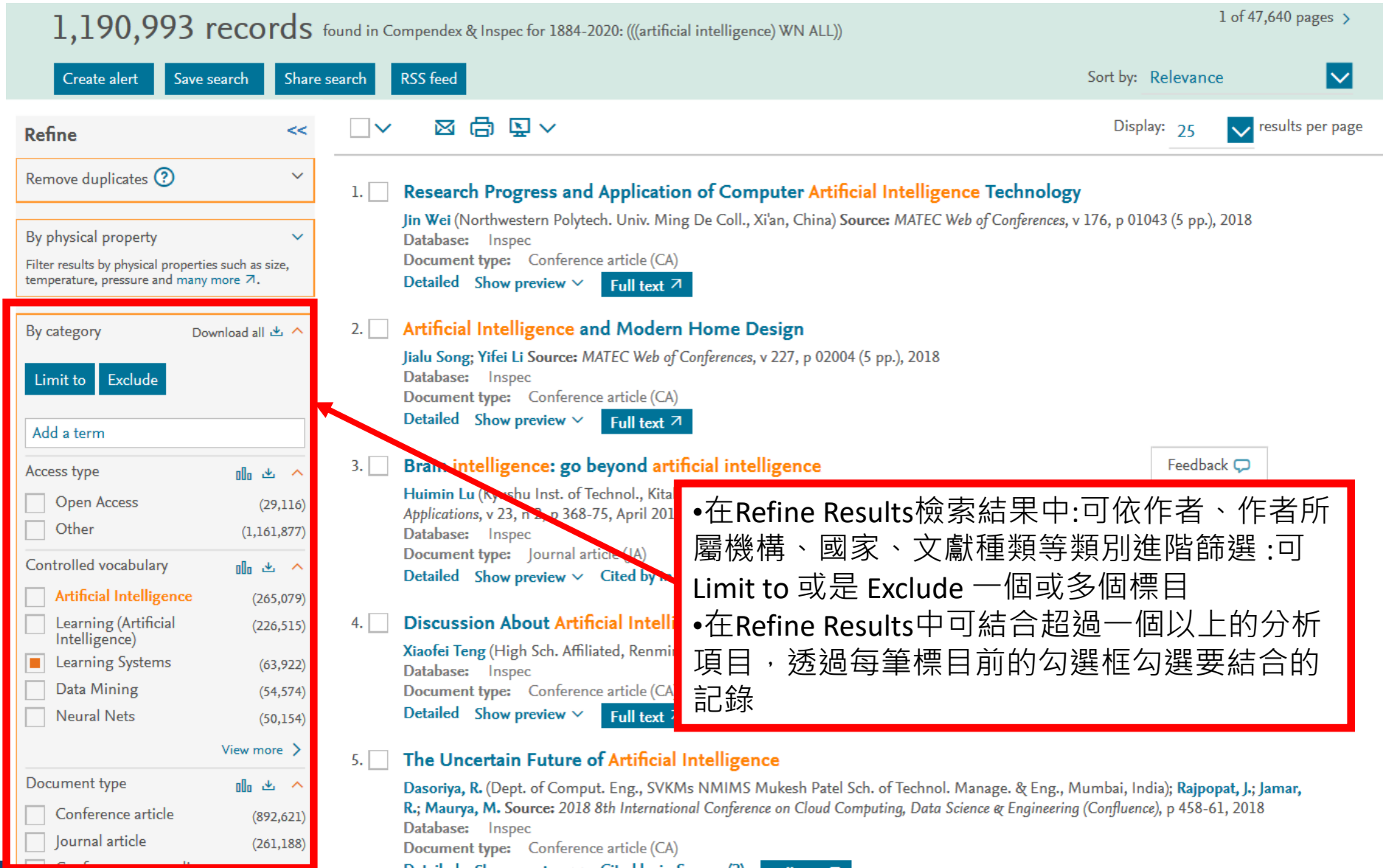

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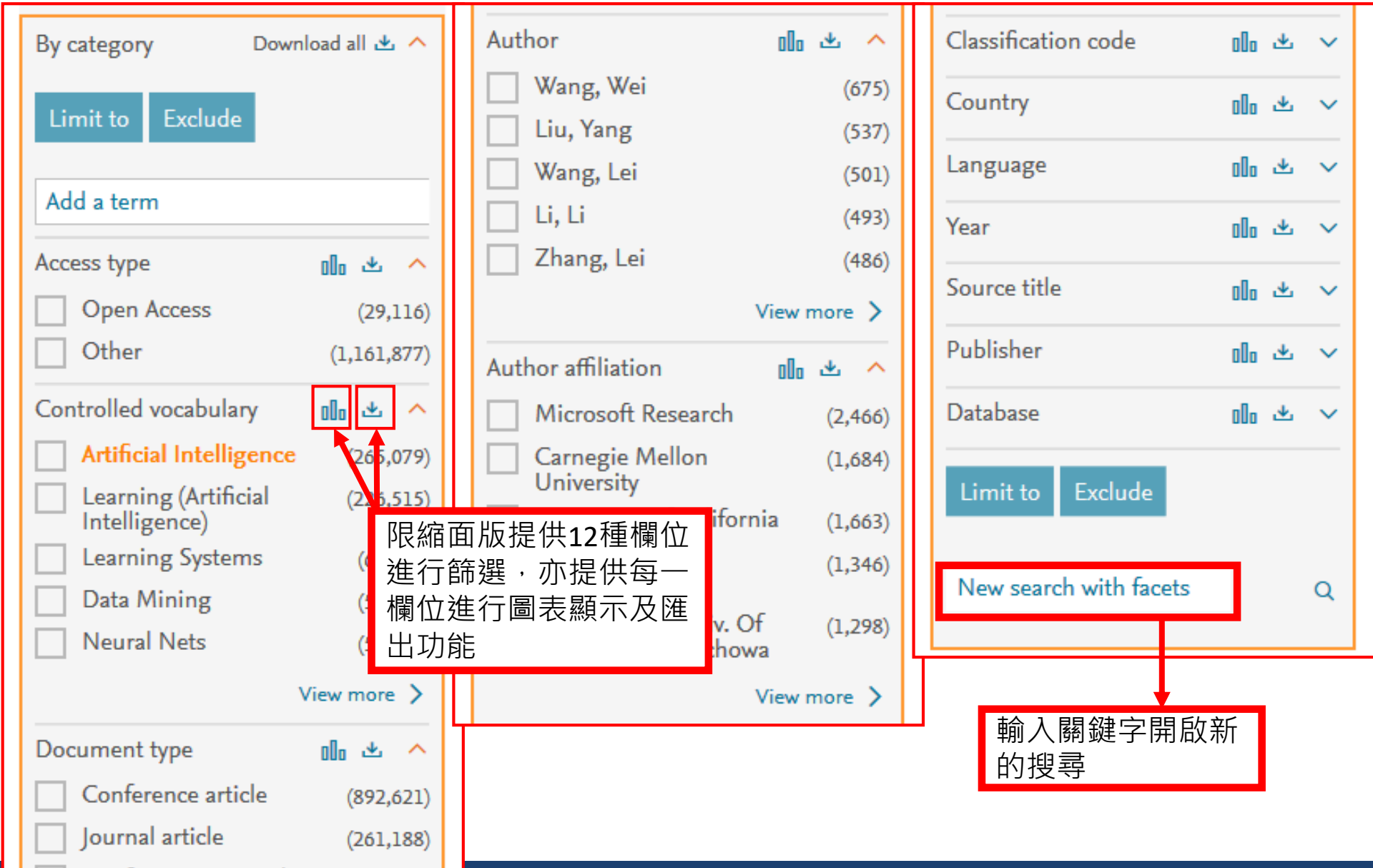
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Document type
Conference article (892,621)
Journal article (261,188)
Author
Wang, Wei (675)
Liu, Yang (537)
Wang, Lei (501)
Li, Li (493)
Zhang, Lei (486)
View more
Author affiliation
Microsoft Research (2,466)
Carnegie Mellon University (1,684)
(1,663)
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(1,298)
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結果頁面 - 1

Author
Wang, Wei (675)
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Author affiliati
Microsoft
Carnegie University
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Records: 537
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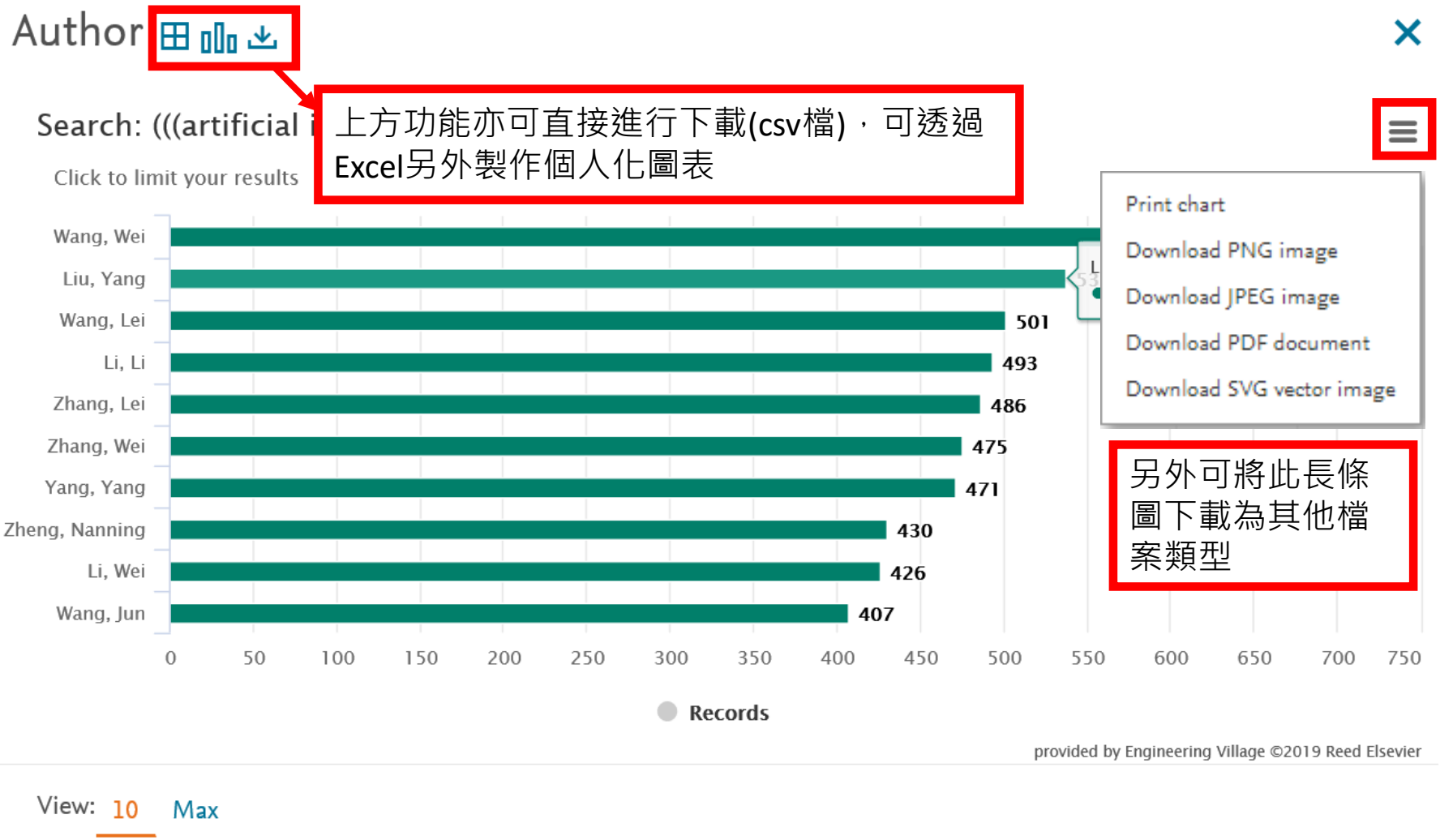
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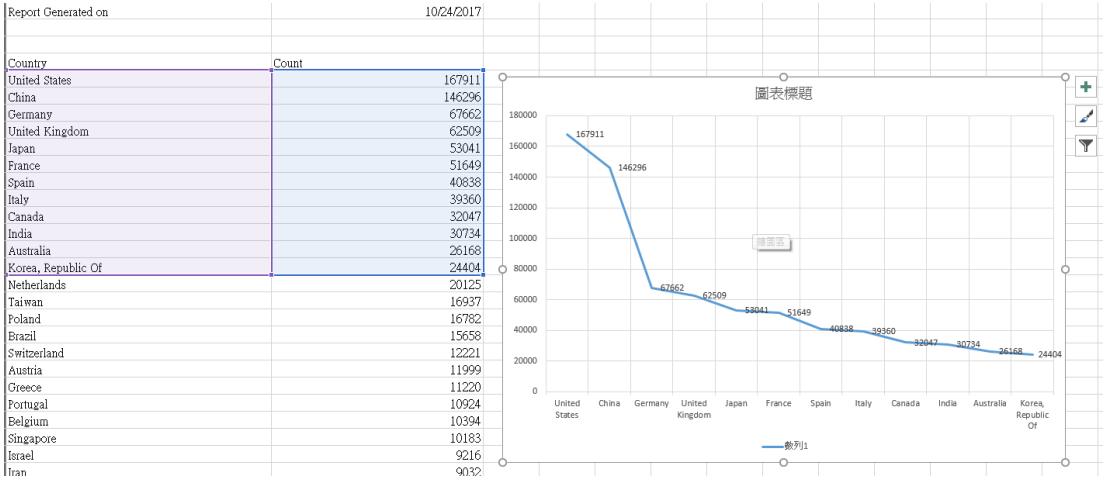

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Germany	67662
United Kingdom	62509
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France	51649
Spain	40838
Italy	39360
Canada	32047
India	30734
Australia	26168
Korea, Republic Of	24404
Netherlands	20125
Taiwan	16937
Poland	16782
Brazil	15658
Switzerland	12221
Austria	11999
Greece	11220
Portugal	10924
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Singapore	10183
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Tag（標籤）的功能

- 使用者可對任何的資料指定其關鍵字（標籤）
- 使用者可透過標籤執行檢索
- 使用者可選擇將自己的標籤對其他人公開
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  - 個人所屬機構中的使用者
  - 只在個人所屬的研究團隊
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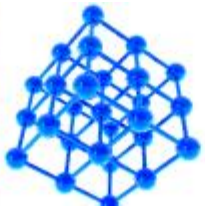
注意，此為個人化功能，需註冊及登錄後才能使用。



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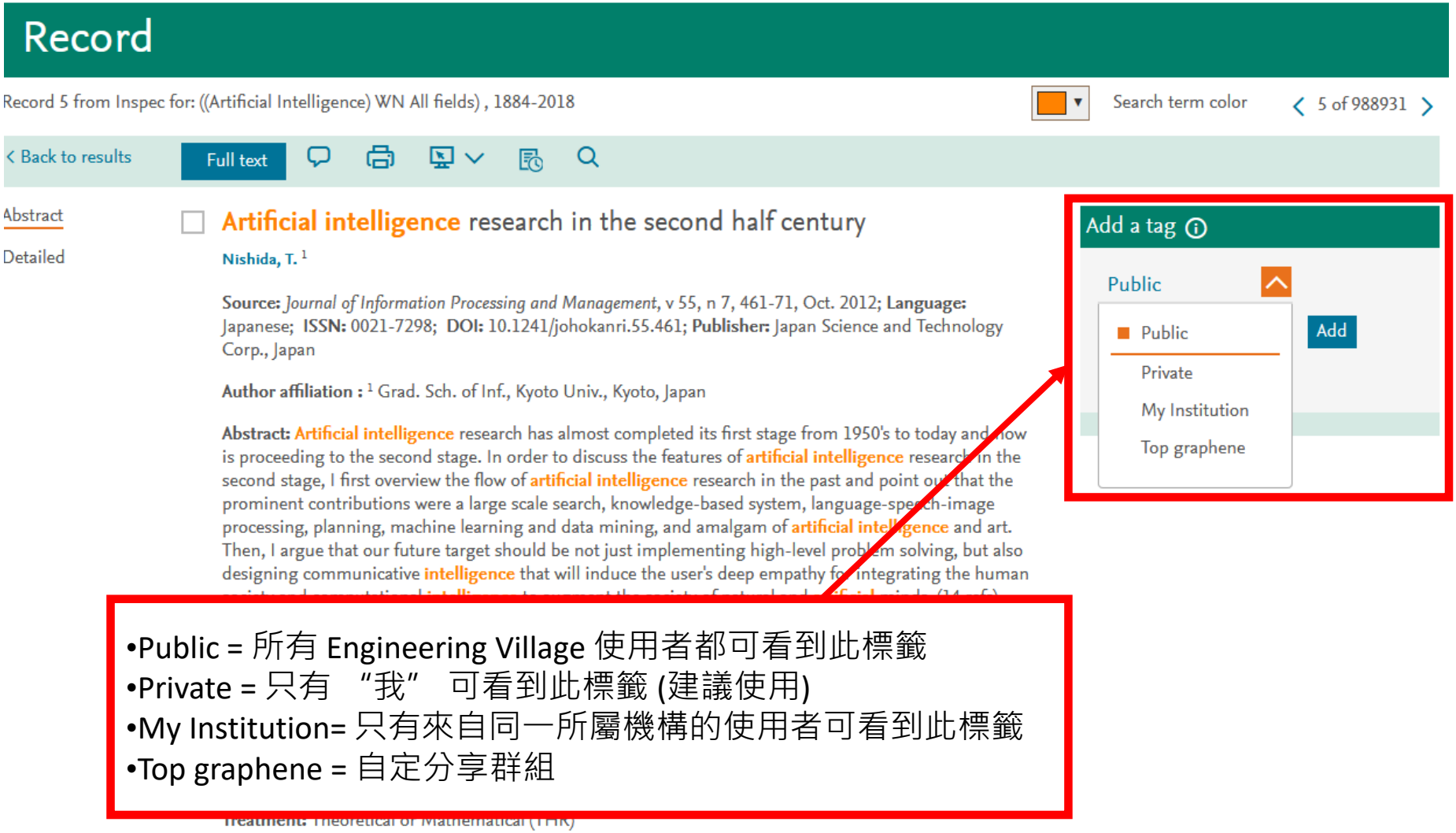

- Public = 所有 Engineering Village 使用者都可看到此標籤
- Private = 只有 “我” 可看到此標籤 (建議使用)
- My Institution= 只有來自同一所屬機構的使用者可看到此標籤
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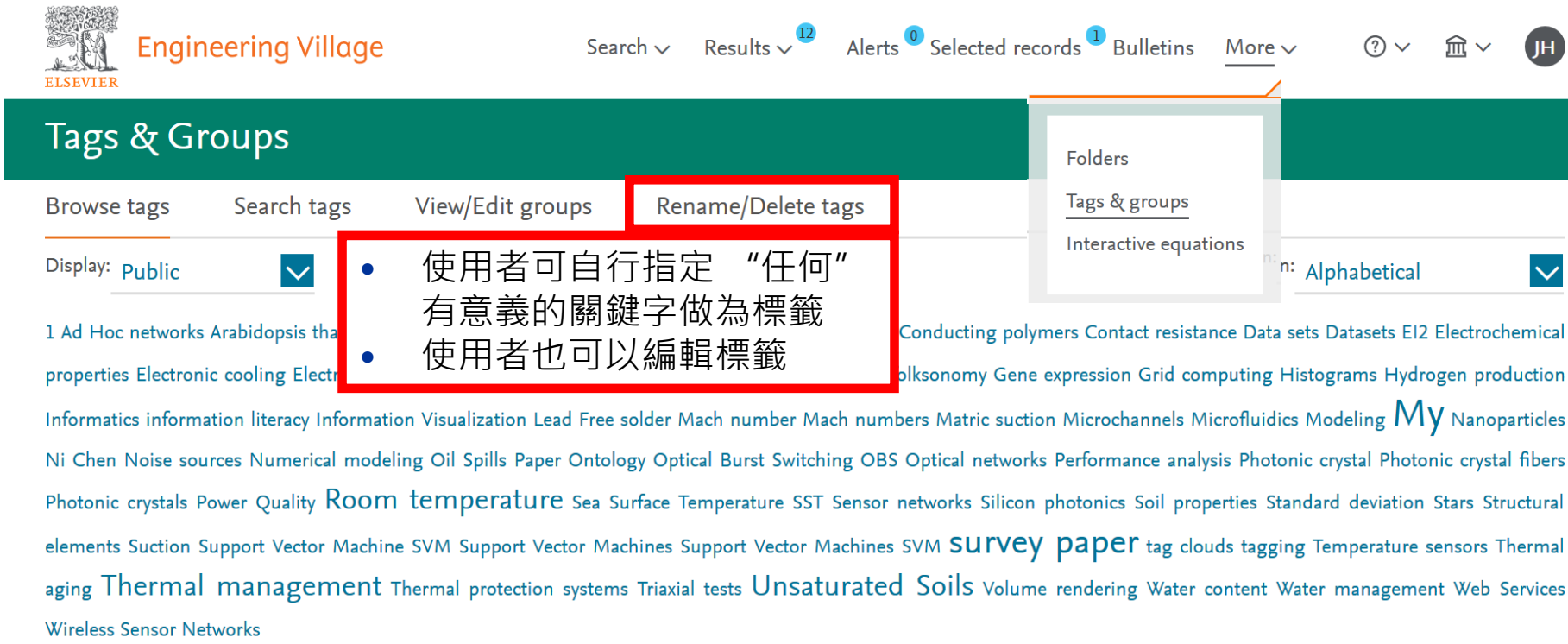
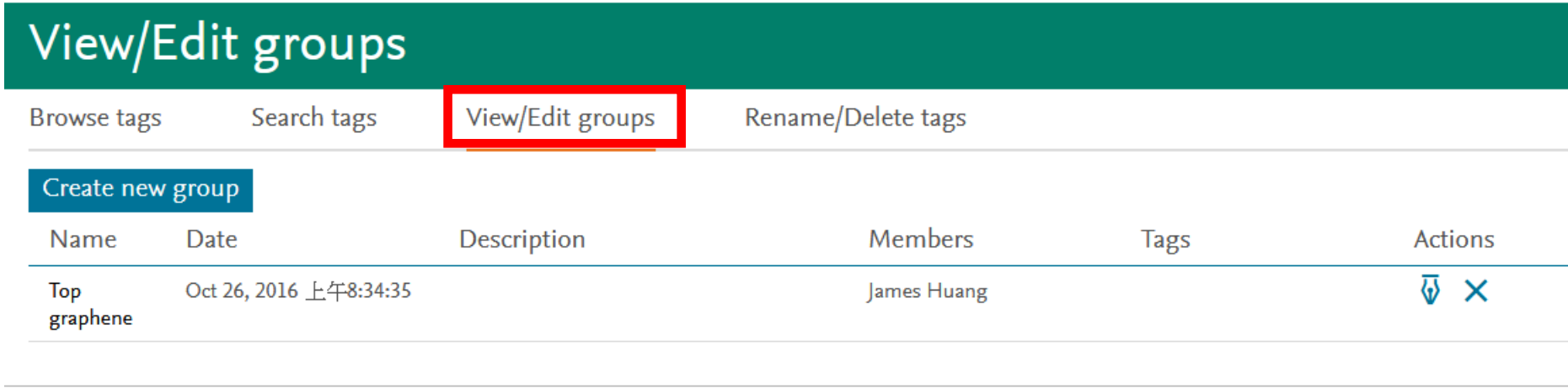
Tag 透過標籤檢索可提升效果



使用者的標籤可成為新的搜尋關鍵字

檢視 “標籤雲” 大小：可依照其字母順序、受歡迎程度或新穎程度排序

Tag 團隊間的分享



Ei
About Ei
History of Ei

- 可為研究團隊、合作者、友人建立特定分組
- 所有標籤資料將只為分組成員所用
- 分組成員可看到所屬團隊的所有標籤
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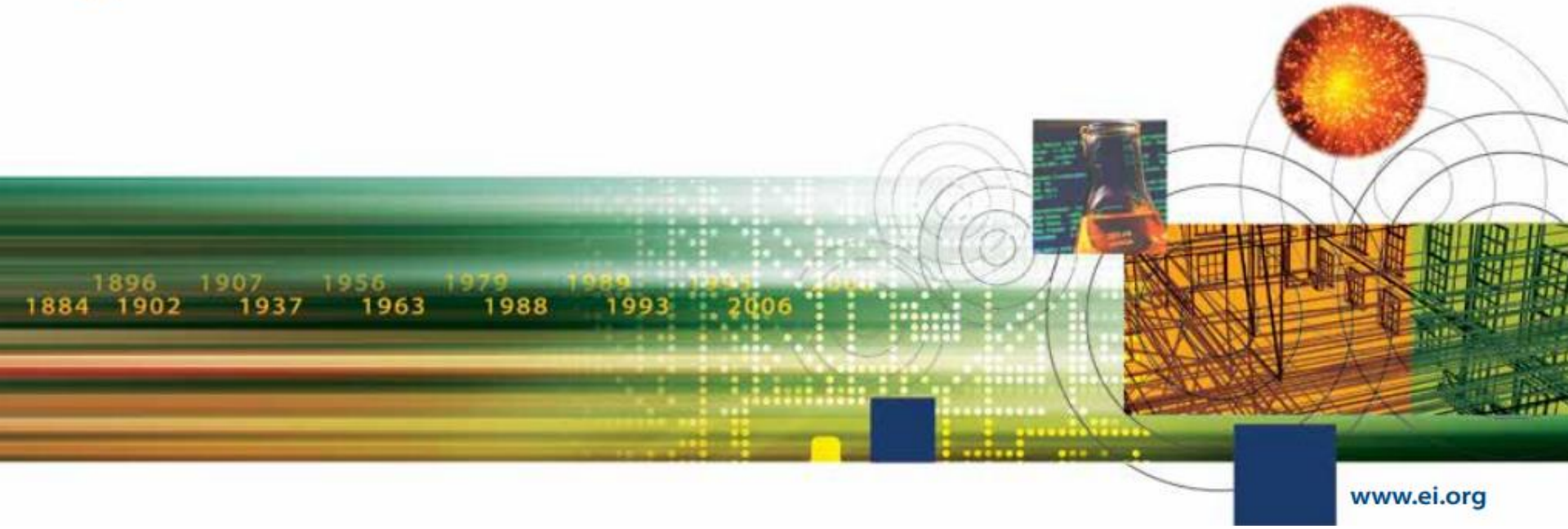
Expert Search - 專家搜尋



Expert Search – 專家搜尋

Expert Search – 專家檢索

輸入檢索辭彙和檢索欄位代碼

Expert search

Search for: *Eg.:smith wn AU and ("autonomous navigation" or radar*)*

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檢索代碼

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Database		Code = Field		Code = Field	
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i	= Inspec	AN	= Accession number (c,i)	SN	= ISSN (c,i)
		AF	= Affiliation/Assignee (c,i)	SU	= Issue (c,i)
		ALL	= All fields (c,i)	LA	= Language (c,i)
		AI	= Astronomical indexing (i)	MI	= Material identity number (i)
		AU	= Author/Inventor (c,i)	NU	= see Numerical Data Codes (c,i)
		CI	= Chemical indexing (i)	NI	= Numerical indexing (i)
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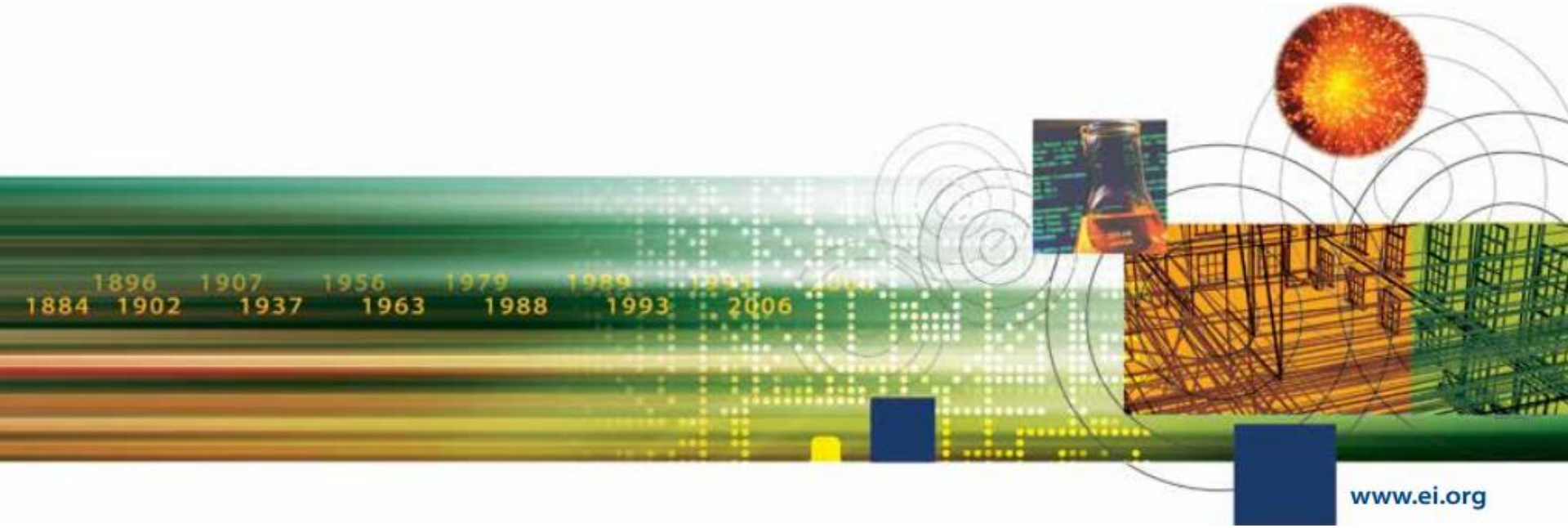


Thesaurus Search – 索引典搜尋

THESAURUS 索引典介紹

自然語言

容易因詞彙認知與用法有所差異

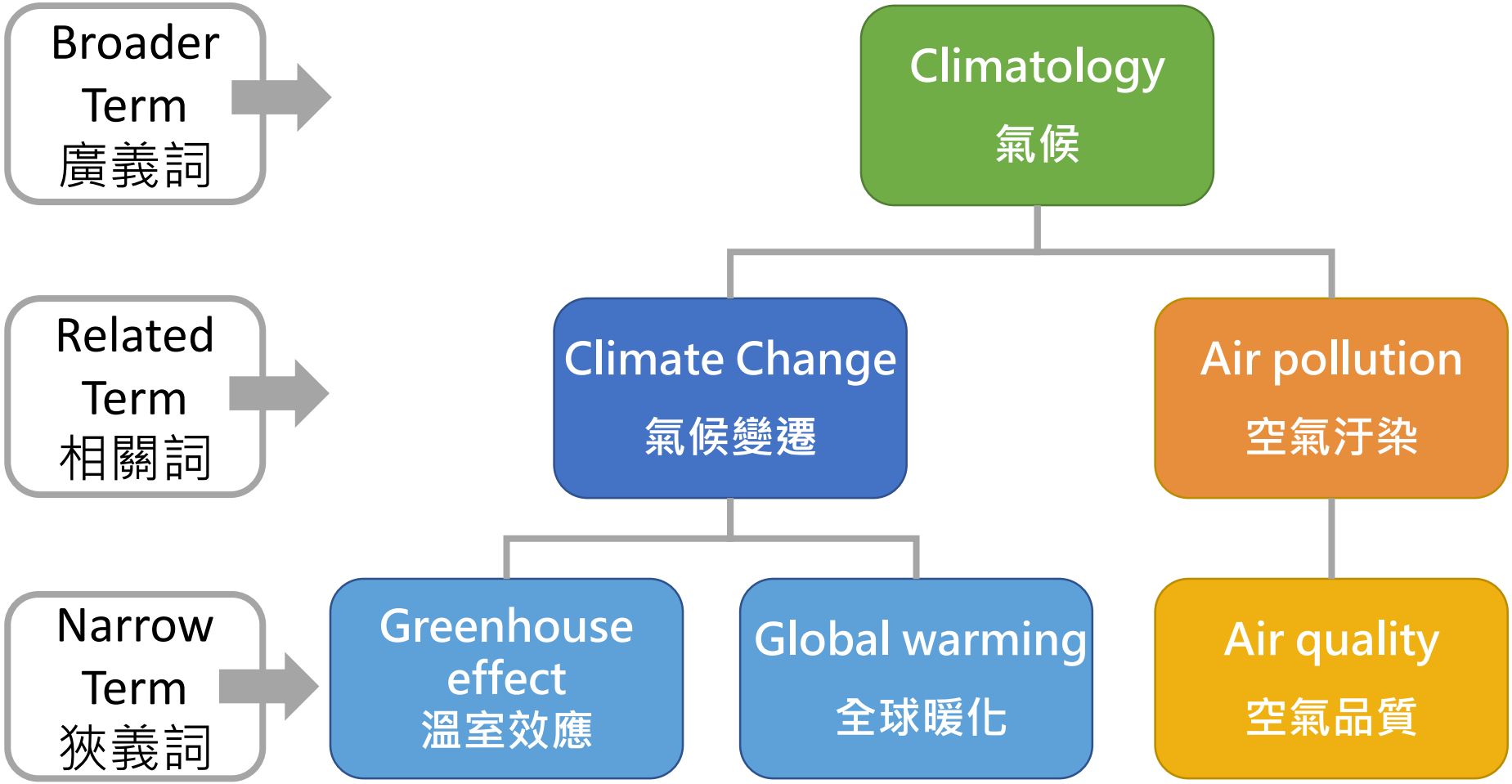
造成混淆及模稜兩可的情況

THESAURUS 索引典

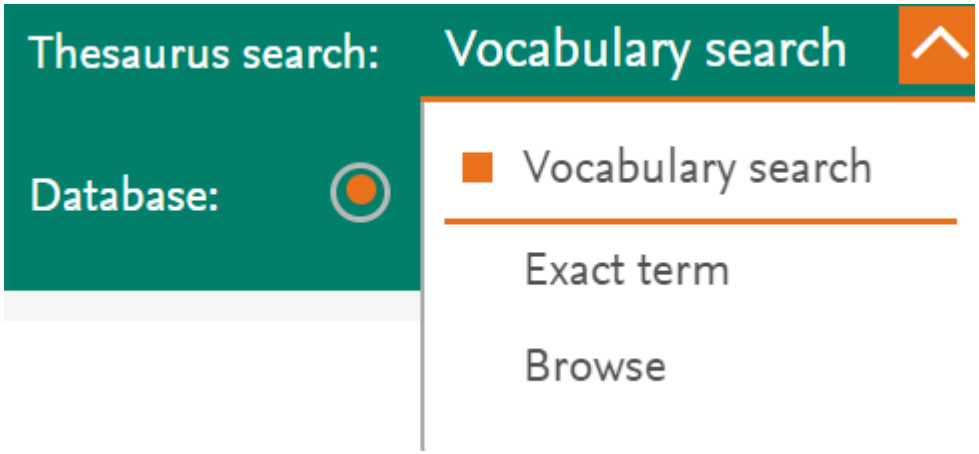
將自然語言分類重組為 **廣義詞** 、 **狹義詞** 、**相關詞**

對同一概念採用固定的詞彙表達，以達到控制詞彙目的，
清楚呈現整個主題概念的結構，進而**提高檢索的精確度**。

THESAURUS 索引典範例



Thesaurus 檢索選項



Vocabulary Search

顯示所有**相似意義**的控制詞彙

Exact Term

顯示該詞彙**階層關係**

Browse

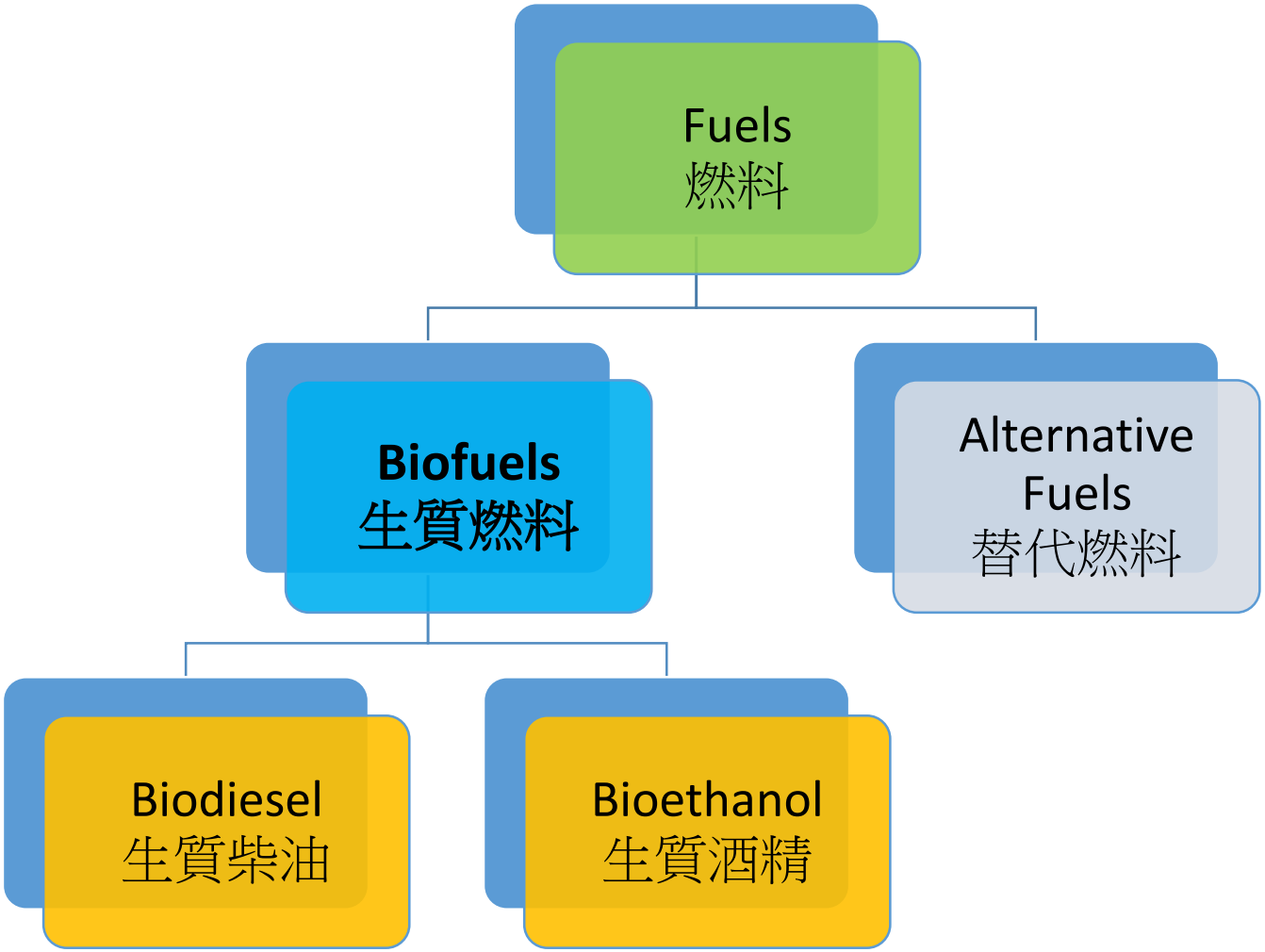
該詞彙的**字母順序位置**，但不一定在意義上有關係

THESAURUS索引典

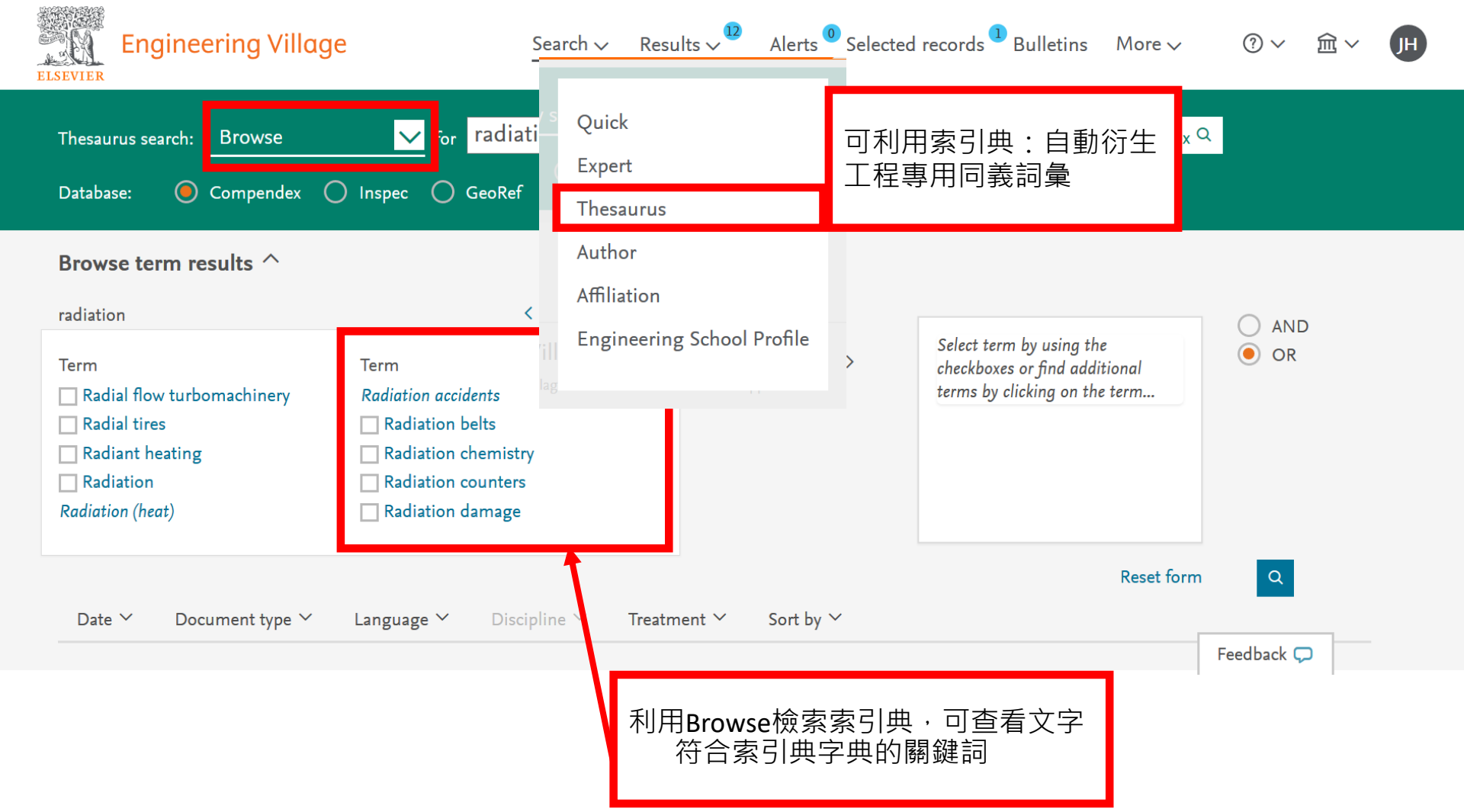
Broader Term 廣義詞

Related Term 相關詞

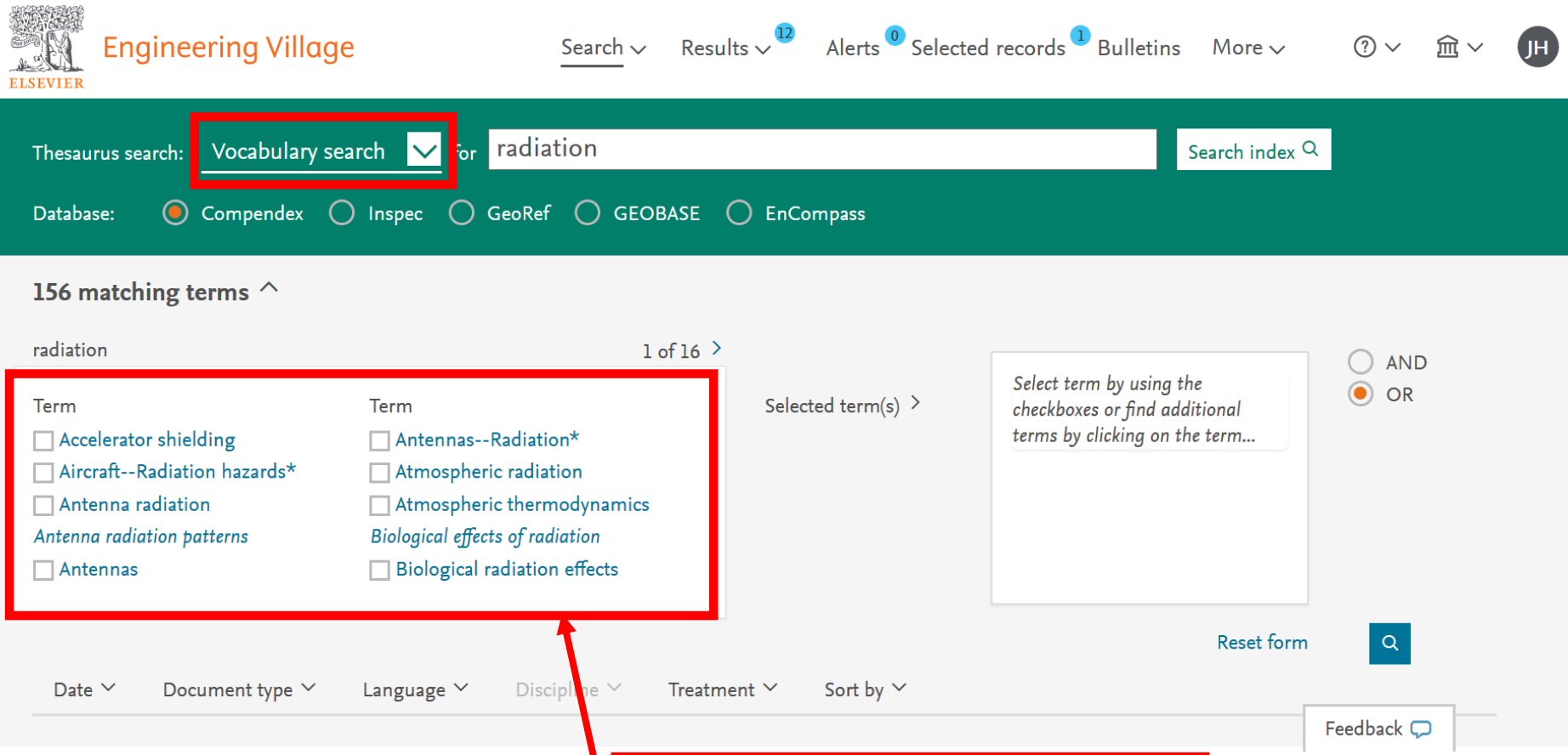
Narrow Term 狹義詞



THESAURUS索引典

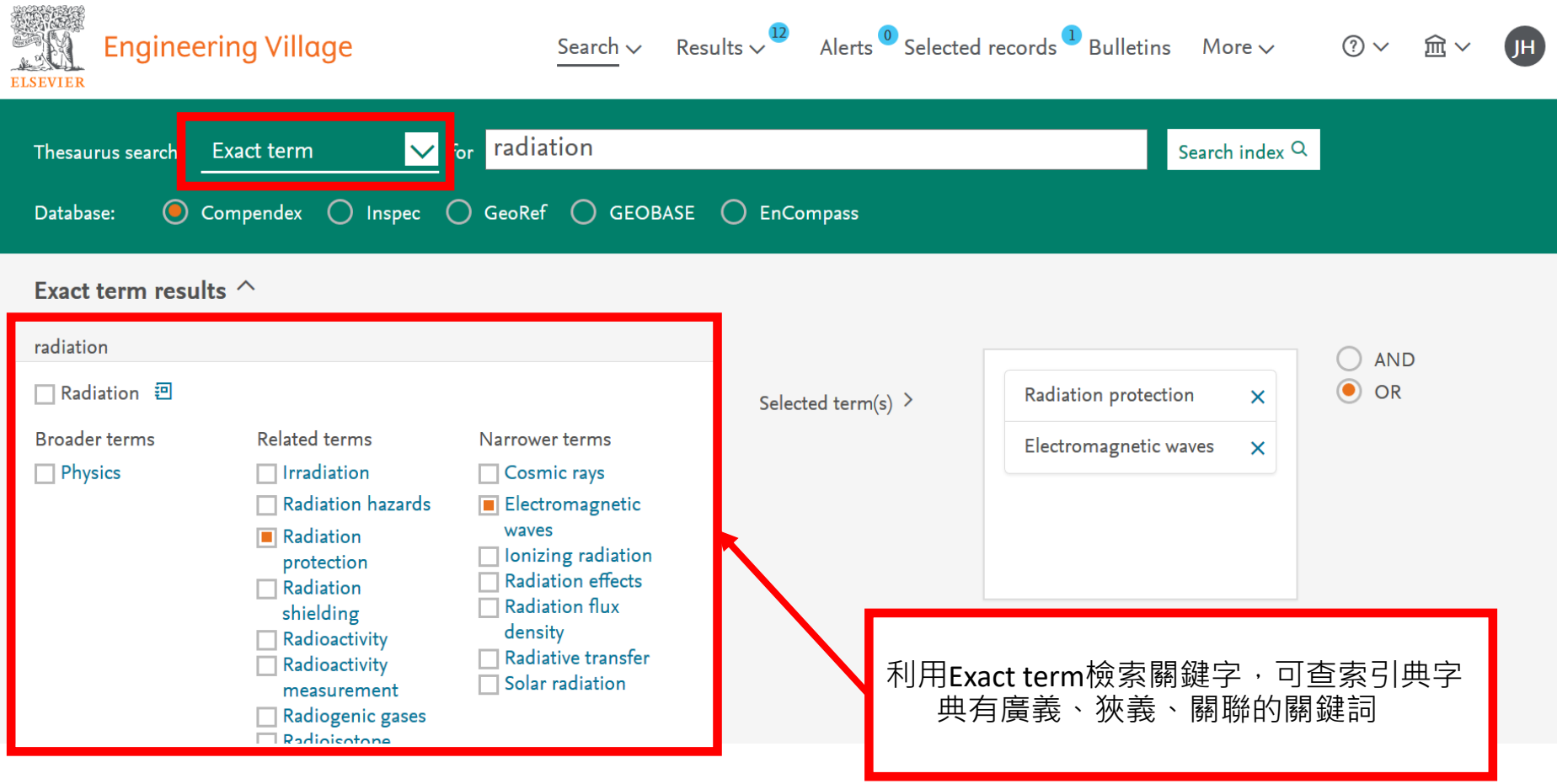


THESAURUS索引典

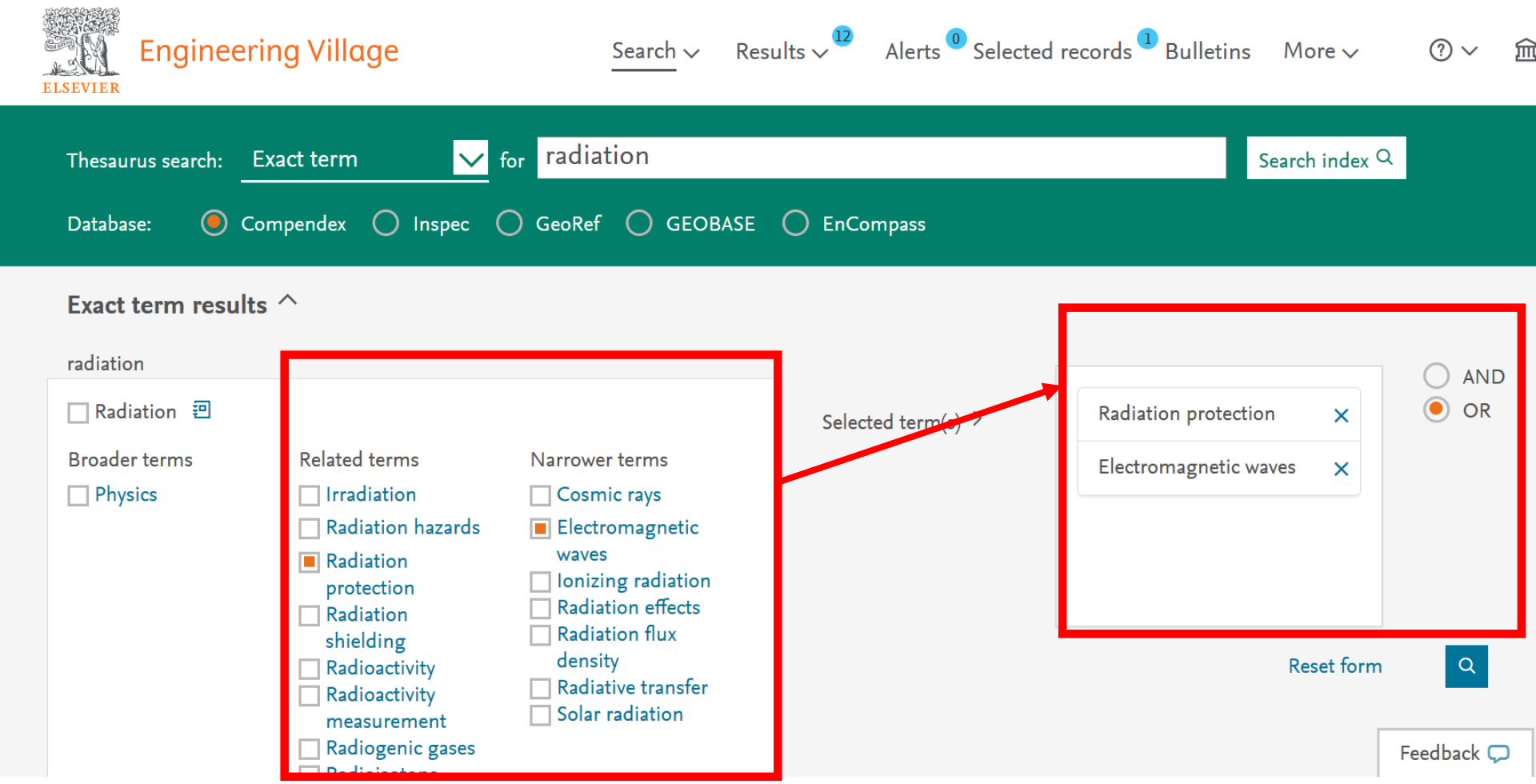


利用Vocabulary檢索關鍵字，可查索引典字典有關連的關鍵詞

THESAURUS索引典



索引典檢索：Thesaurus (Exact Term)



開啟上下位或相關詞彙& 自動組合多個詞彙以利合併檢索

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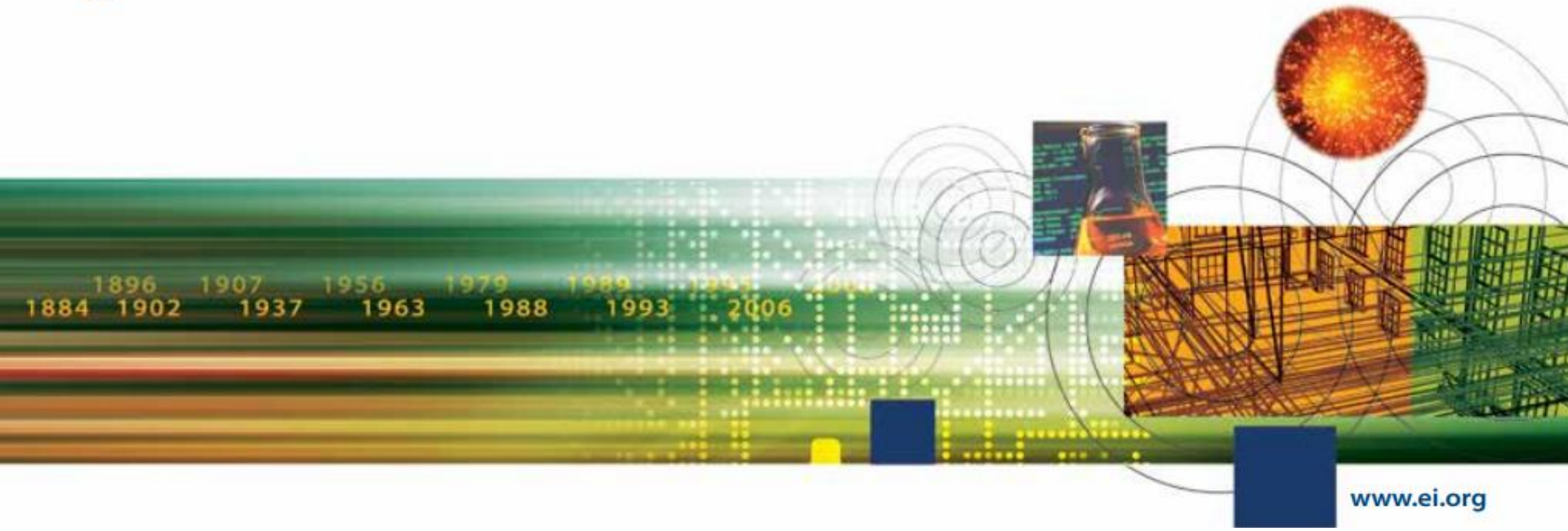
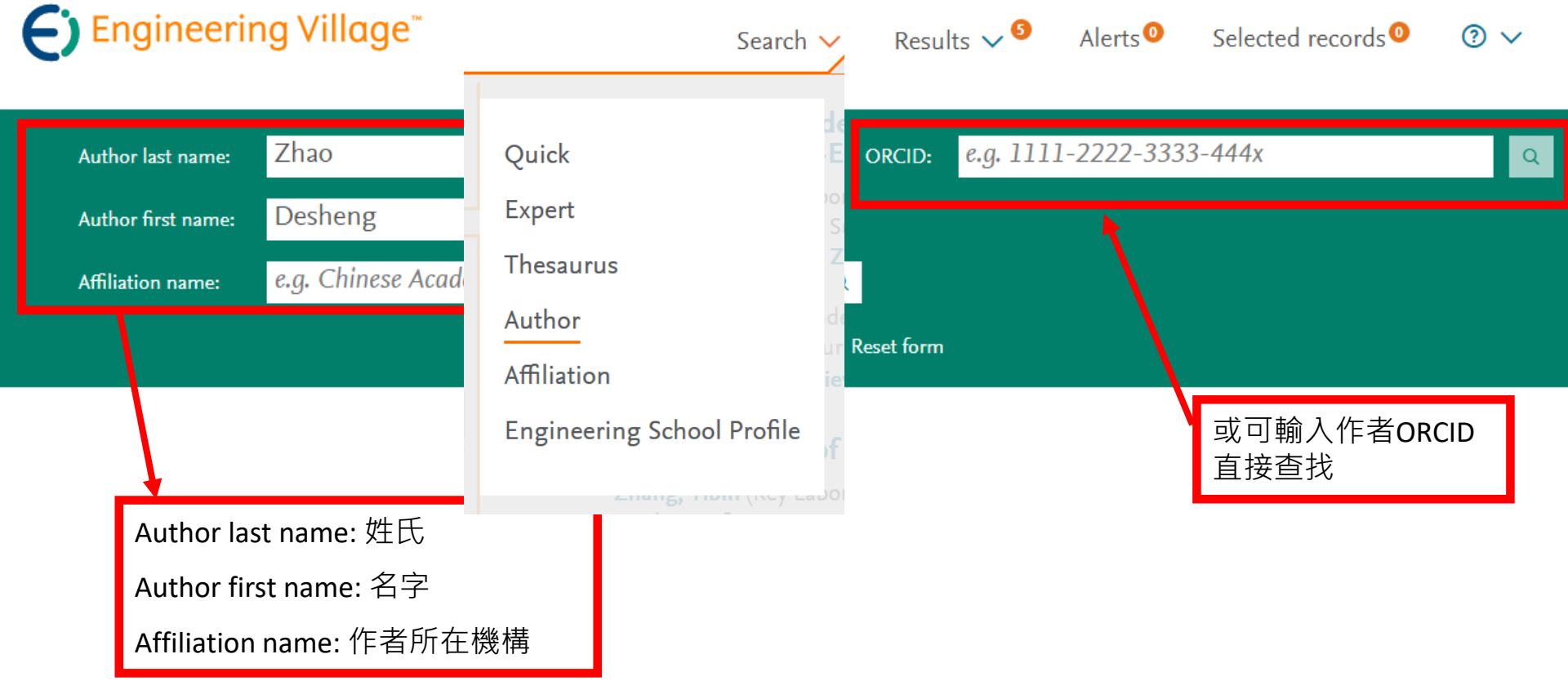
Thesaurus Search - 索引典搜尋



Author Search – 作者搜尋

Author Search – 作者檢索(直接查詢作者所著文章)



Author Search – 作者檢索(查詢作者所著文章)

8 author results in Compendex for Last name: "Zhao" , First name: "Desheng"

1 of 1 pages

Display: 25 results per page

Sort by: Count (DESC)

Refine <<

By category

Limit to | Exclude

Source Title

- 2014 11th China International Forum On Solid State Lighting Sslchina 2014 (1)
- Acta Biomaterialia (1)
- Acta Chimica Sinica (1)
- Agro Food Industry Hi Tech (1)
- Biochemical And Biophysical Research Communications (1)

View more >

Country

- China (6)
- Finland (2)

City

	Name	Subject area	Affiliation name	City	Country
1.	Zhao, Desheng Zhao, D. S. View 9 records Create Alert Request author detail corrections	Materials Science; Engineering; Physics and Astronomy;	Chinese Academy of Sciences	Beijing	China
2.	Zhao, Desheng Zhao, D. S. Zhao, D. Zhao, De Sheng View 3 records Create Alert Request author detail corrections	Environmental Science; Immunology and Microbiology; Pharmacology, Toxicology and Pharmaceutics; ...	Anhui Medical University	Hefei	China
3.	Zhao, Desheng Zhao, De Sheng View 2 records Crea	Computer Science; Physics and Astronomy; Engineering;	Xi'an Institute of Posts and Telecommunications	Xi'an	China
4.	Zhao, Desheng Zhao, D. S. View 2 records Crea				
5.	Zhao, Desheng	Materials Science; Biochemistry, Genetics and	Tsinghua University		China

因可能會有**同名同姓的作者**或**作者於不同機構著作之文章**，因此條列結果會呈現所有清單，可再依其領域、機構等分類確認欲查詢作者之文章後，再點擊View Records

Author Search – 作者檢索(查詢作者所著文章)

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Refine <<

Numeric filter

By category Download all

Limit to Exclude

Add a term

Document type

- Journal article (8)
- Conference article (1)

Controlled vocabulary

- Light Emitting Diodes (6)
- Iii-V Semiconductors (5)
- Gallium Nitride (3)
- Aluminum Gallium Nitride (2)
- High Electron Mobility Transistors (2)

Display: 25 results per page

1. **Analysis and Modeling of Thermal-Electric Coupling Effect of High-Power Monolithically Integrated Light-Emitting Diode**

Zhang, Yibin (Key Laboratory of Nanodevices and Applications, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou; 215123, China); Ding, Mingdi; Zhao, Desheng; Huang, Hongjuan; Huang, Longjie; Lin, Yunzhen; Bian, Difei; Zhang, Baoshun; Cai, Yong
Source: *IEEE Transactions on Electron Devices*, v 65, n 2, p 564-571, February 2018
Database: Compendex
Document type: Journal article (JA)
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2. **Demonstration of wafer-level white light emitting diode with 92,000 lm luminous flux**

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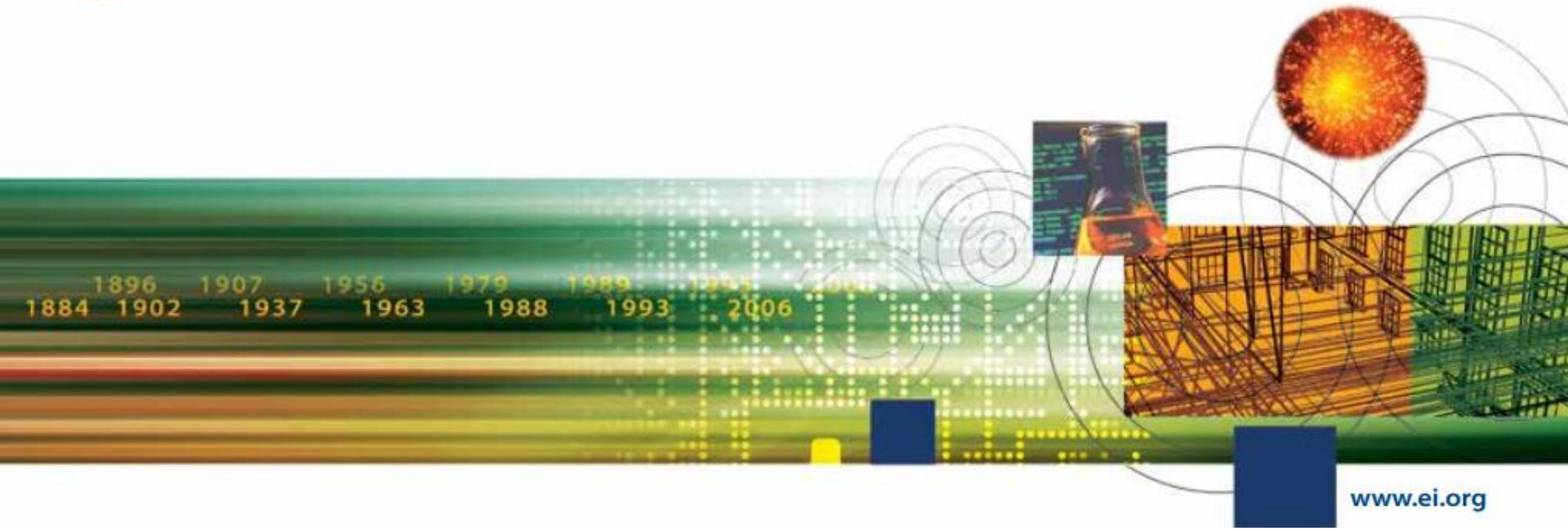

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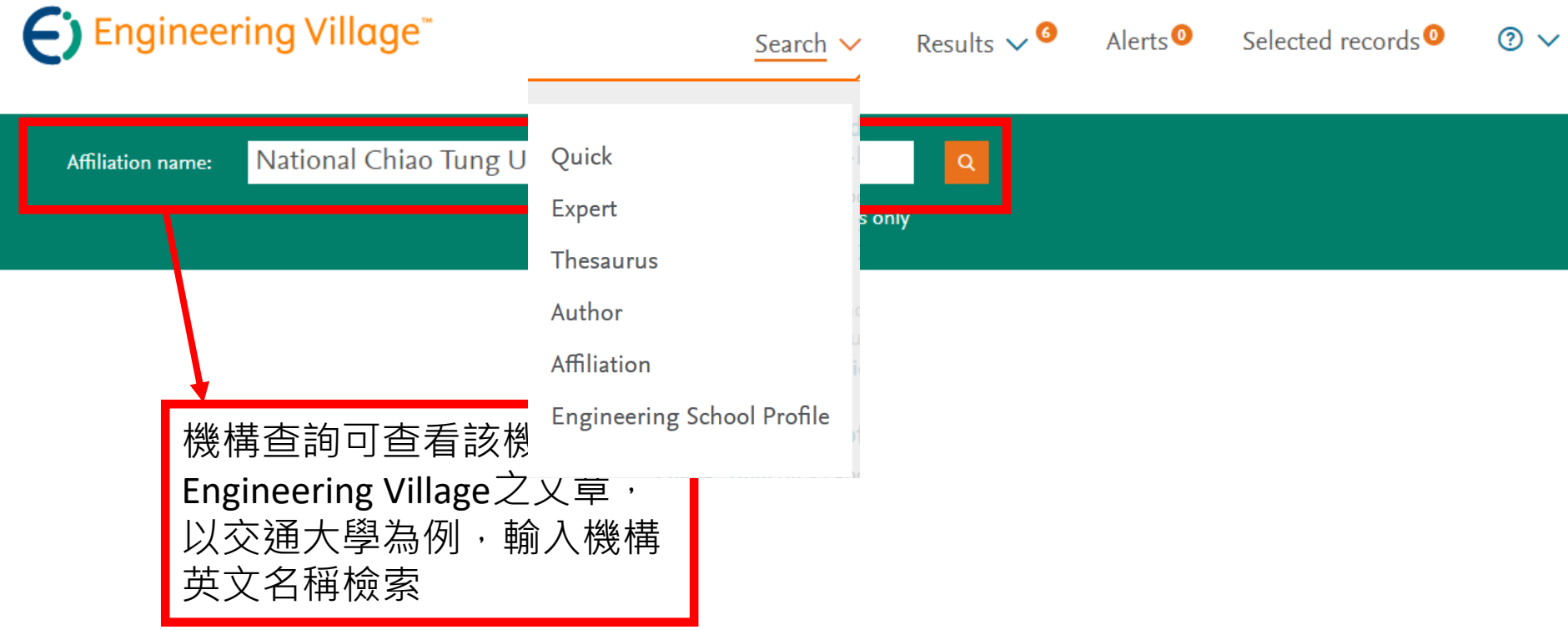

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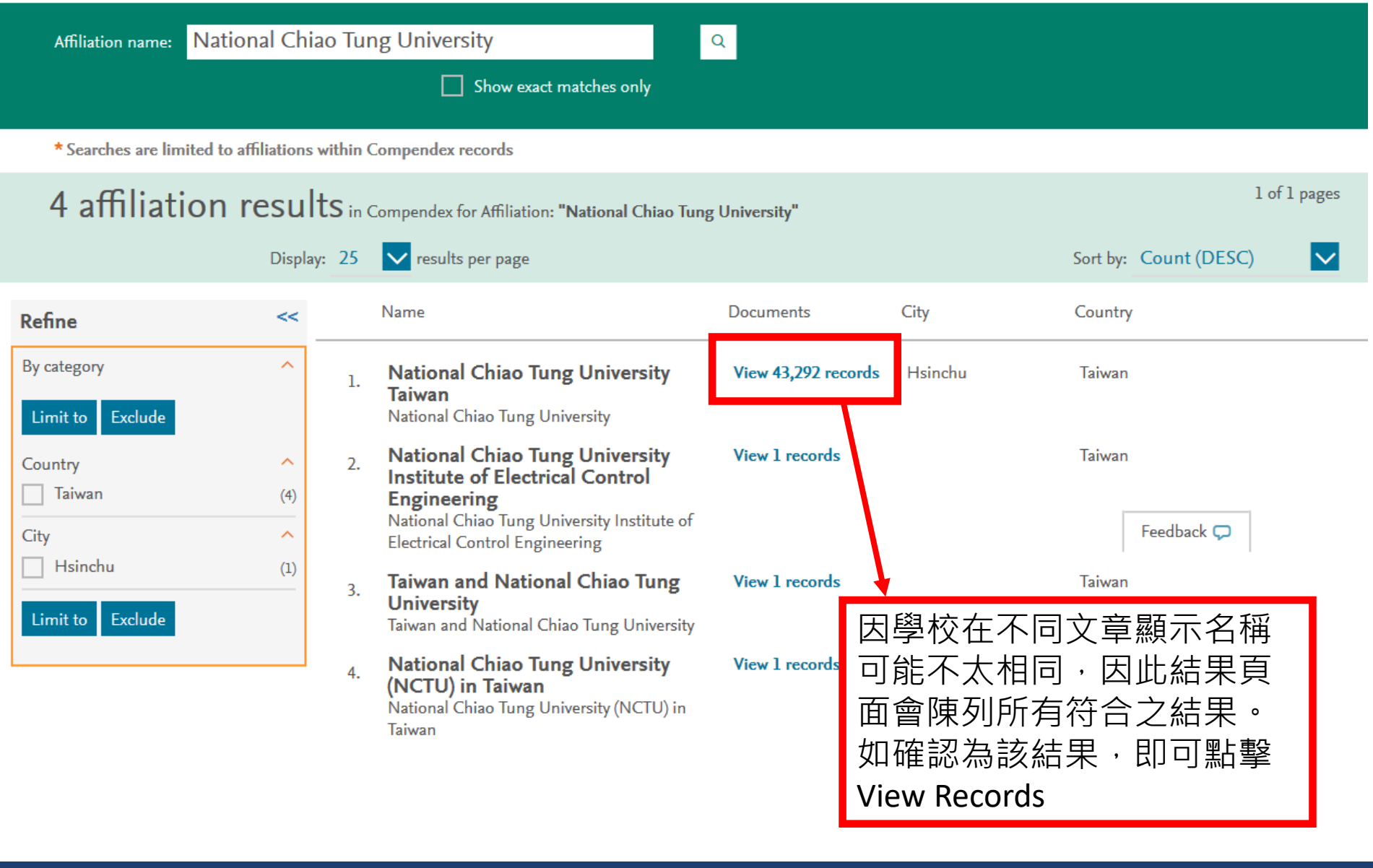

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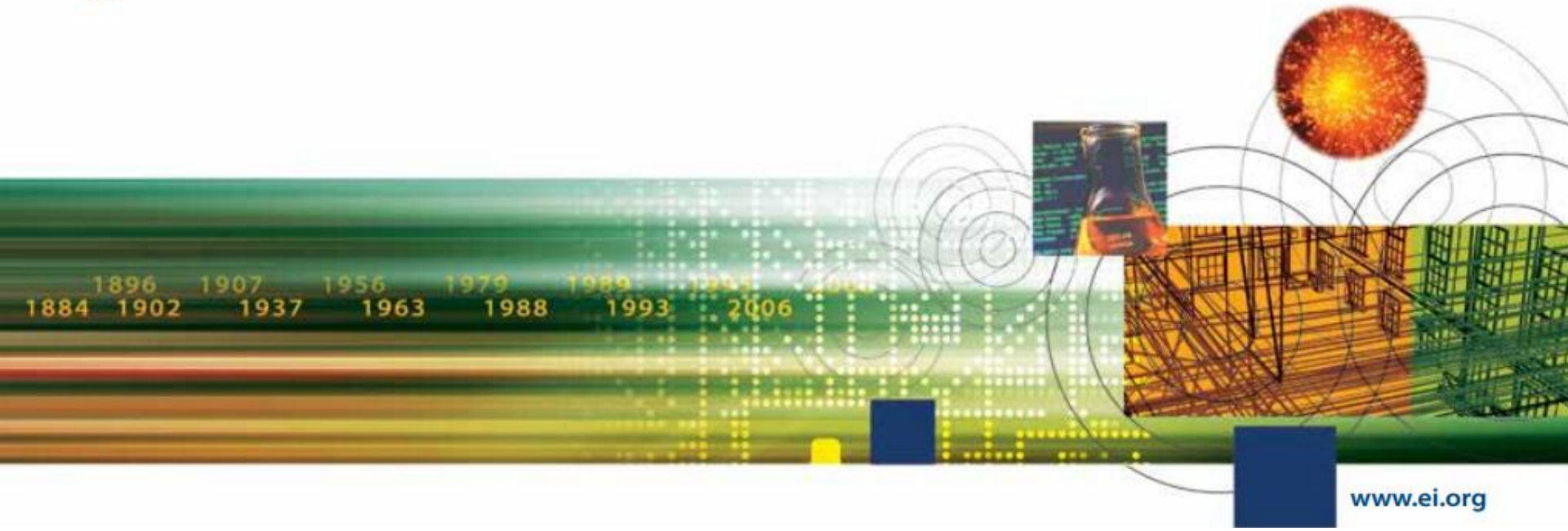

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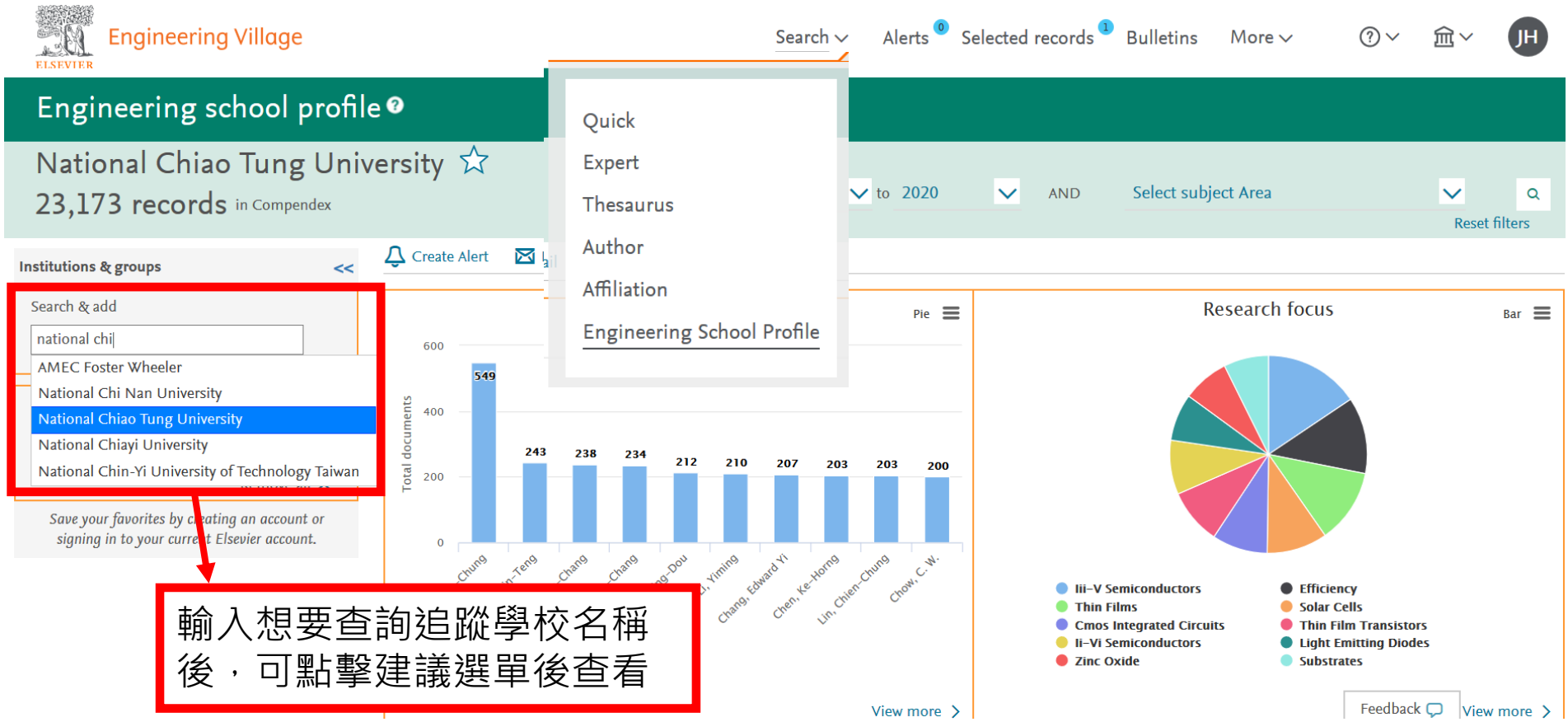

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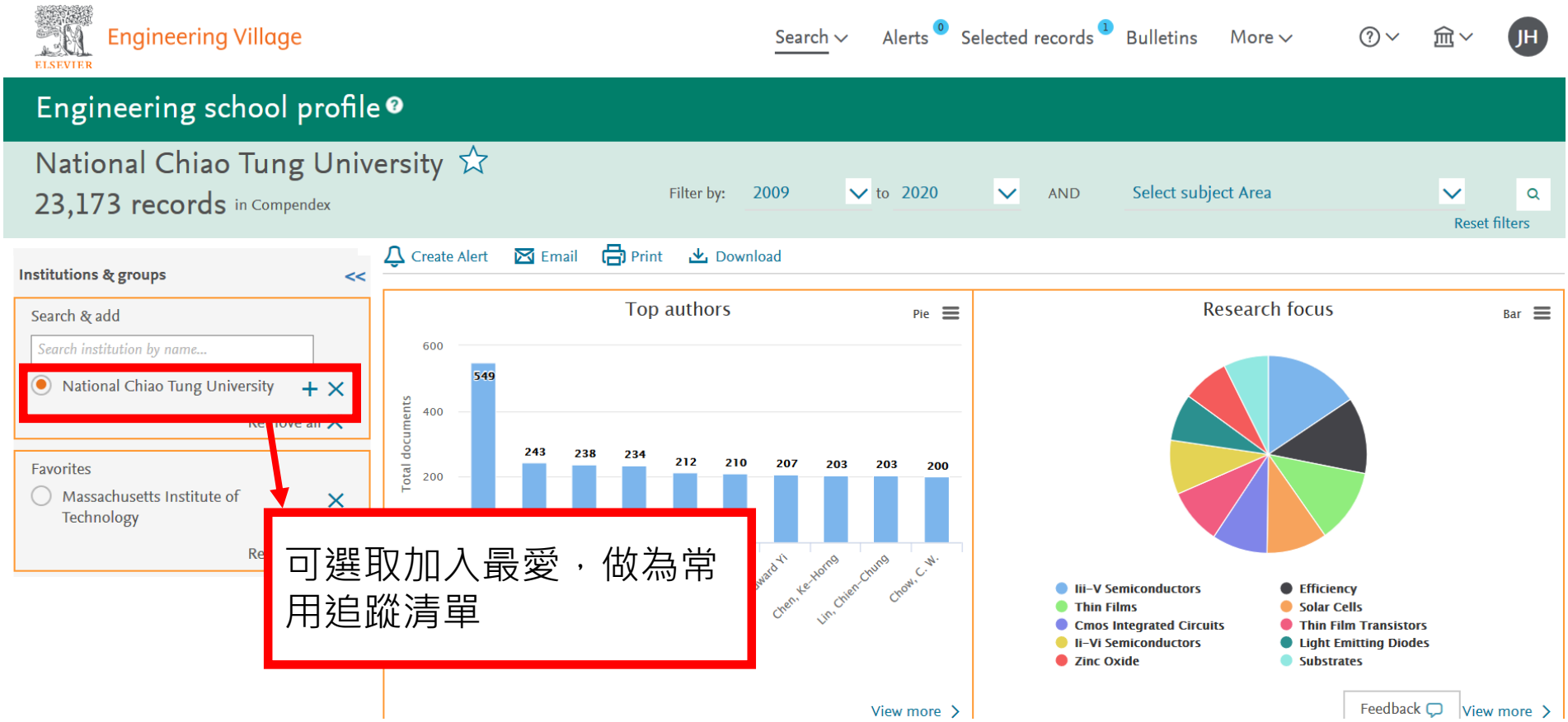

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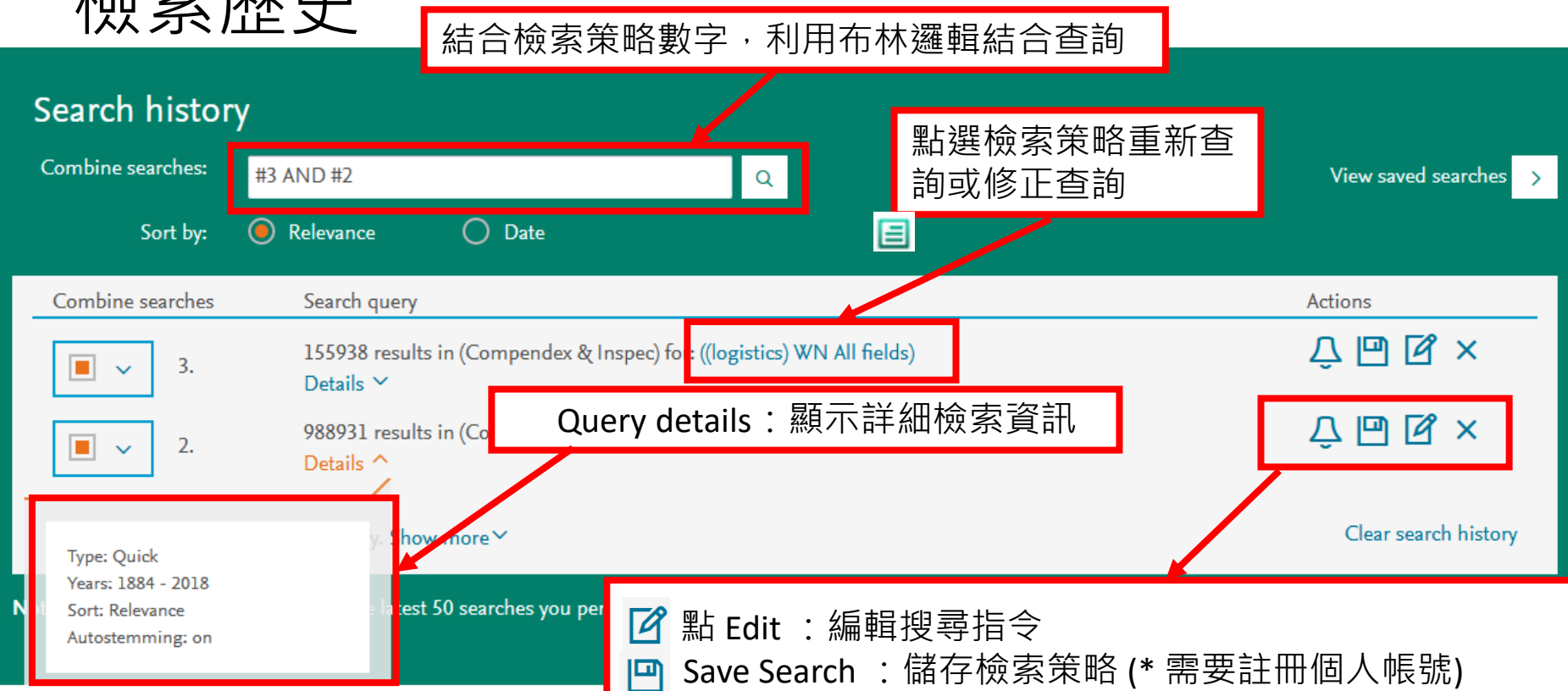
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Nishida, T. [1]

Source: *Journal of Information Processing and Management*, v 55, n 7, 461-71, Oct. 2012; **Language:** Japanese; **ISSN:** 0021-7298; **DOI:** 10.1241/johokanri.55.461; **Publisher:** Japan Science and Technology Corp., Japan

Author affiliation : [1] Grad. Sch. of Inf., Kyoto Univ., Kyoto, Japan

Abstract: Artificial intelligence research has almost completed its first stage from 1950's to today and now is proceeding to the second stage. In order to discuss the features of artificial intelligence research in the second stage, I first overview the flow of artificial intelligence research in the past and point out that the prominent contributions were a large scale search, knowledge-based system, language-speech-image processing, planning, machine learning and data mining, and amalgam of artificial intelligence and art. Then, I argue that our future target should be not just implementing high-level problem solving, but also designing communicative intelligence that will induce the user's deep empathy for integrating the human society and computational intelligence to augment the society of natural and artificial minds. (14 refs)

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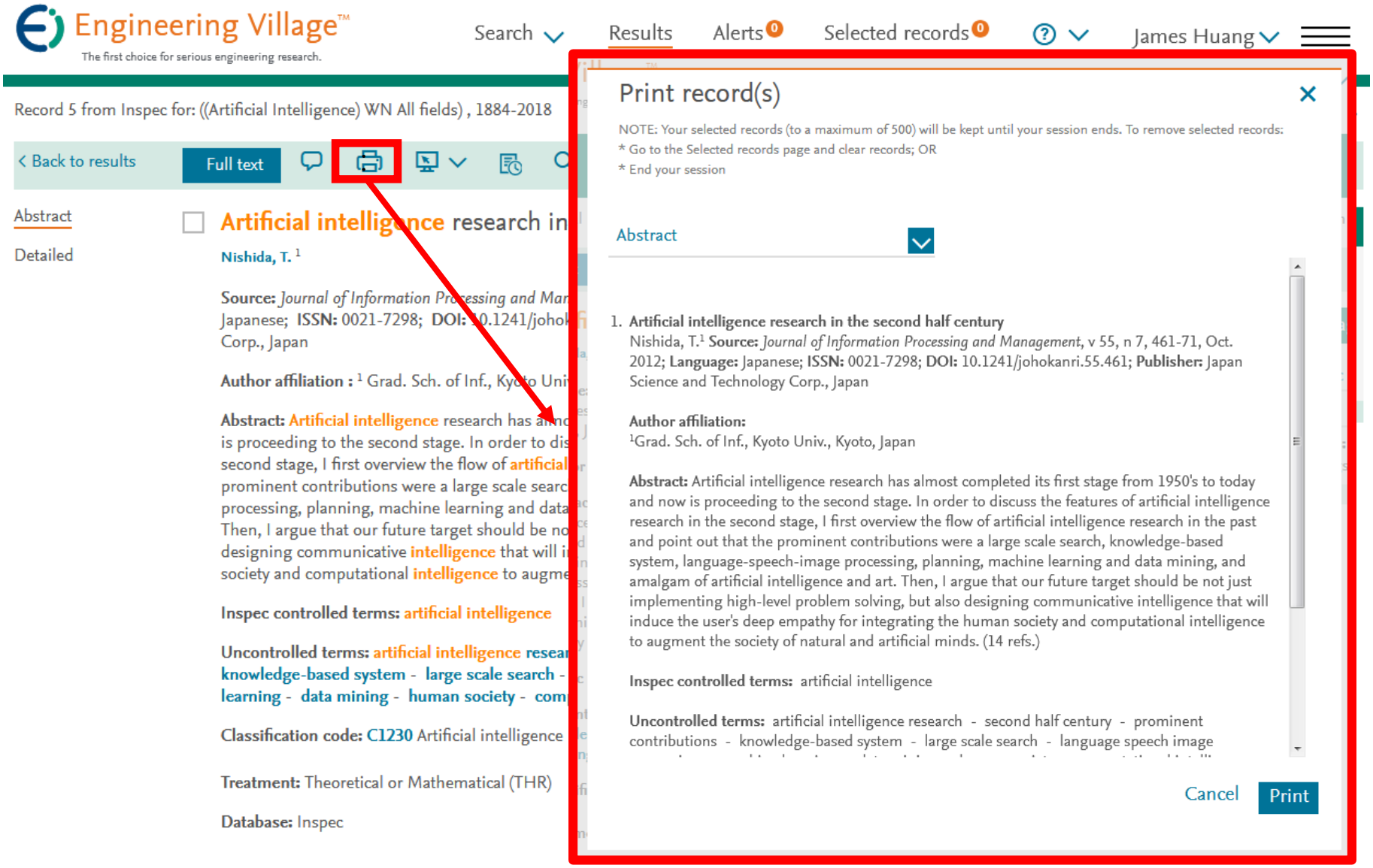
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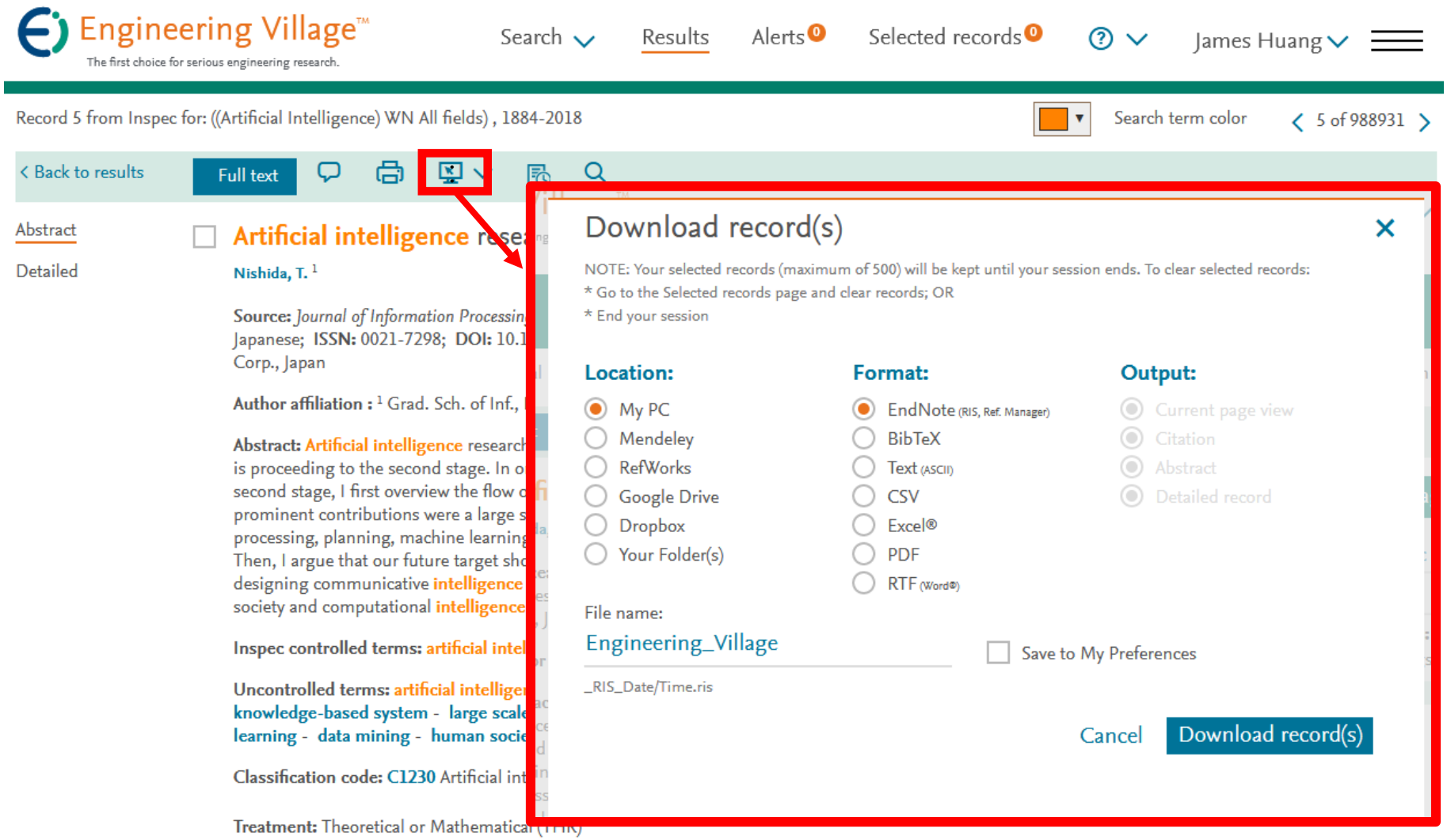

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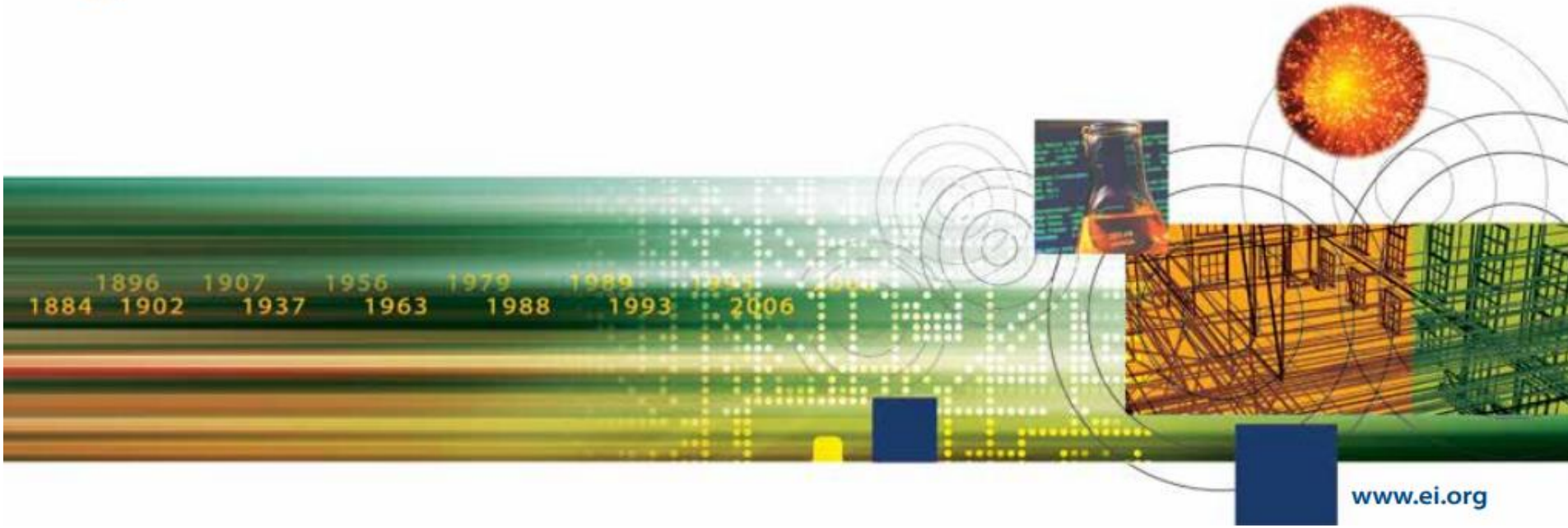

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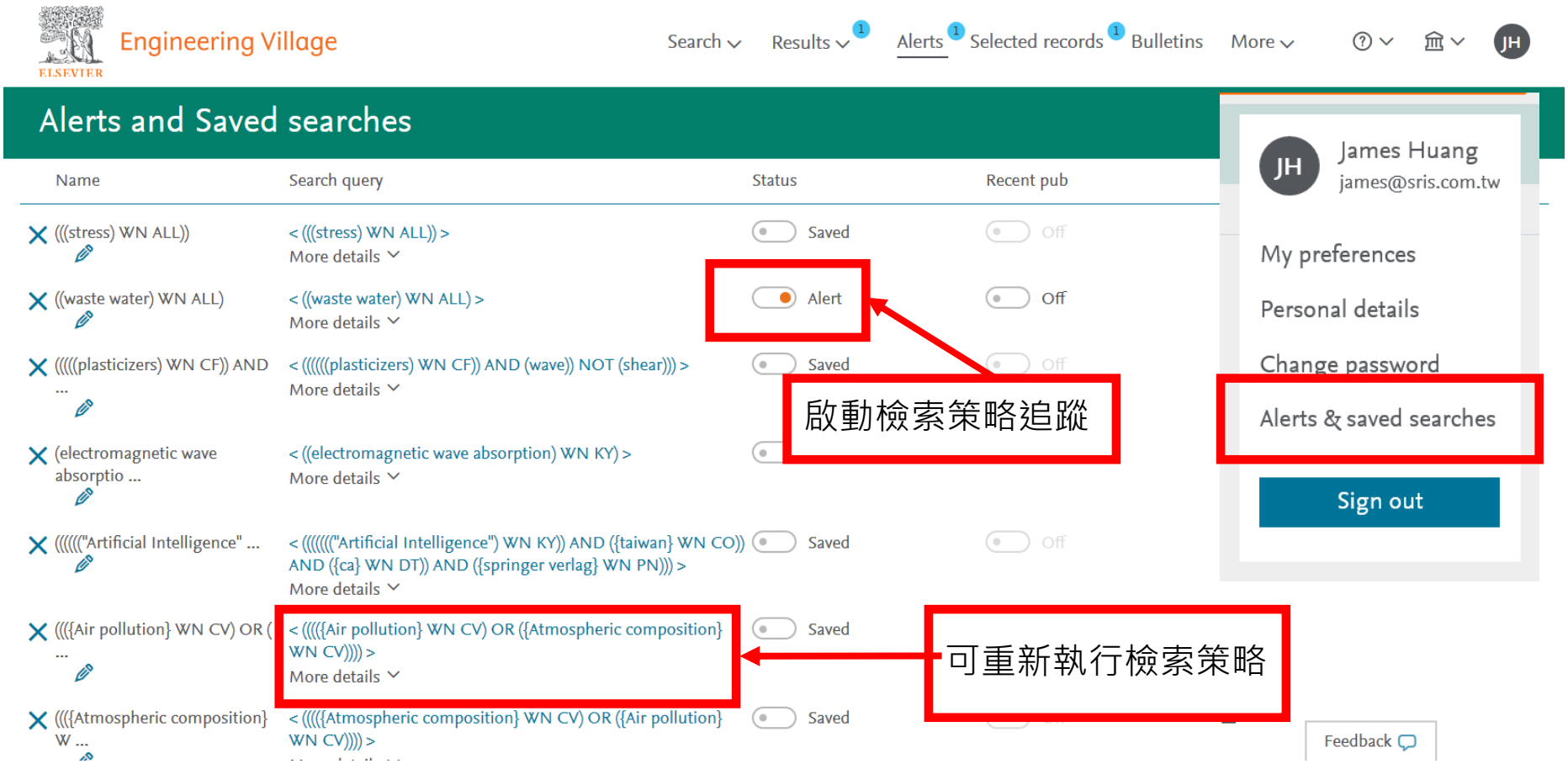

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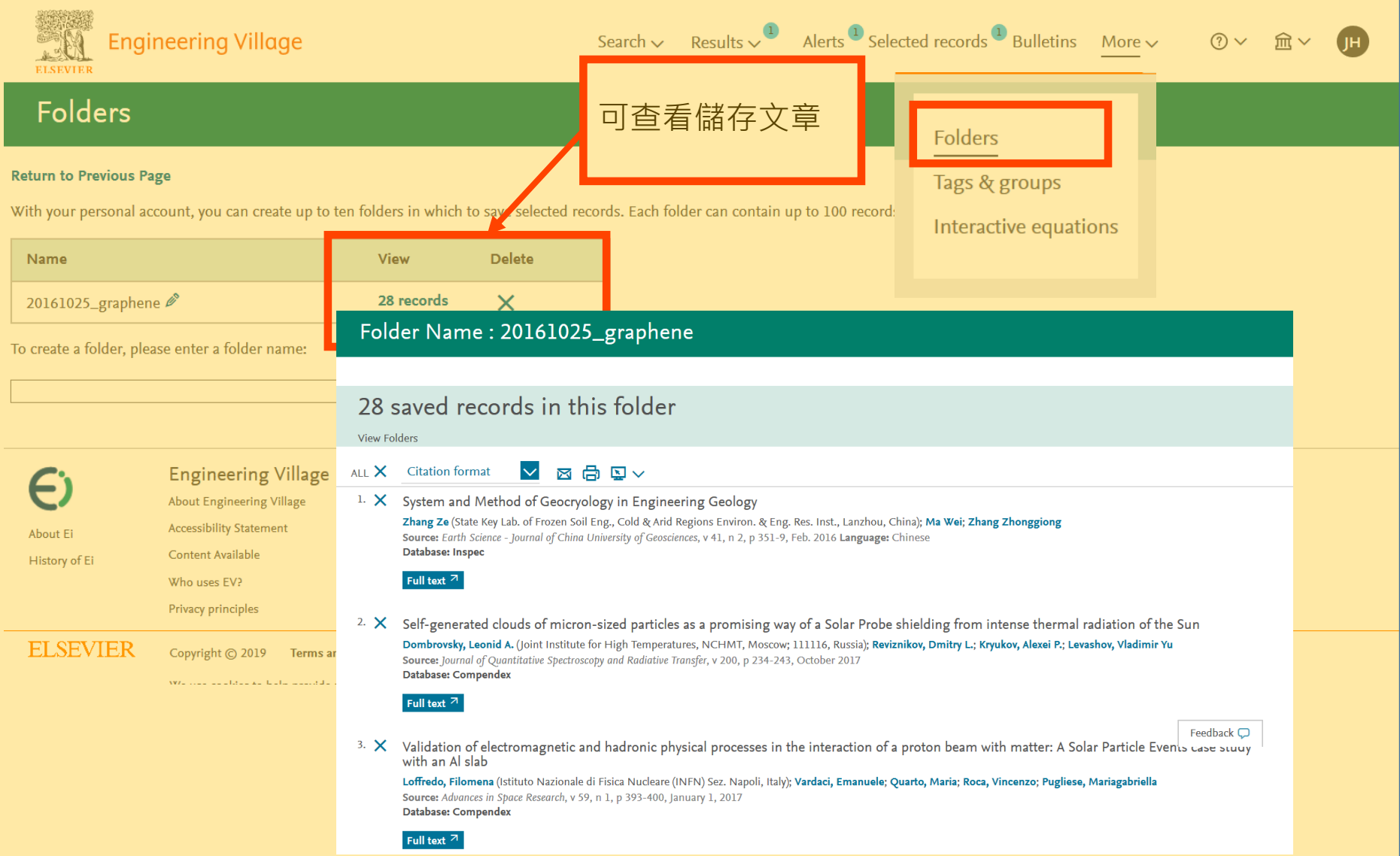

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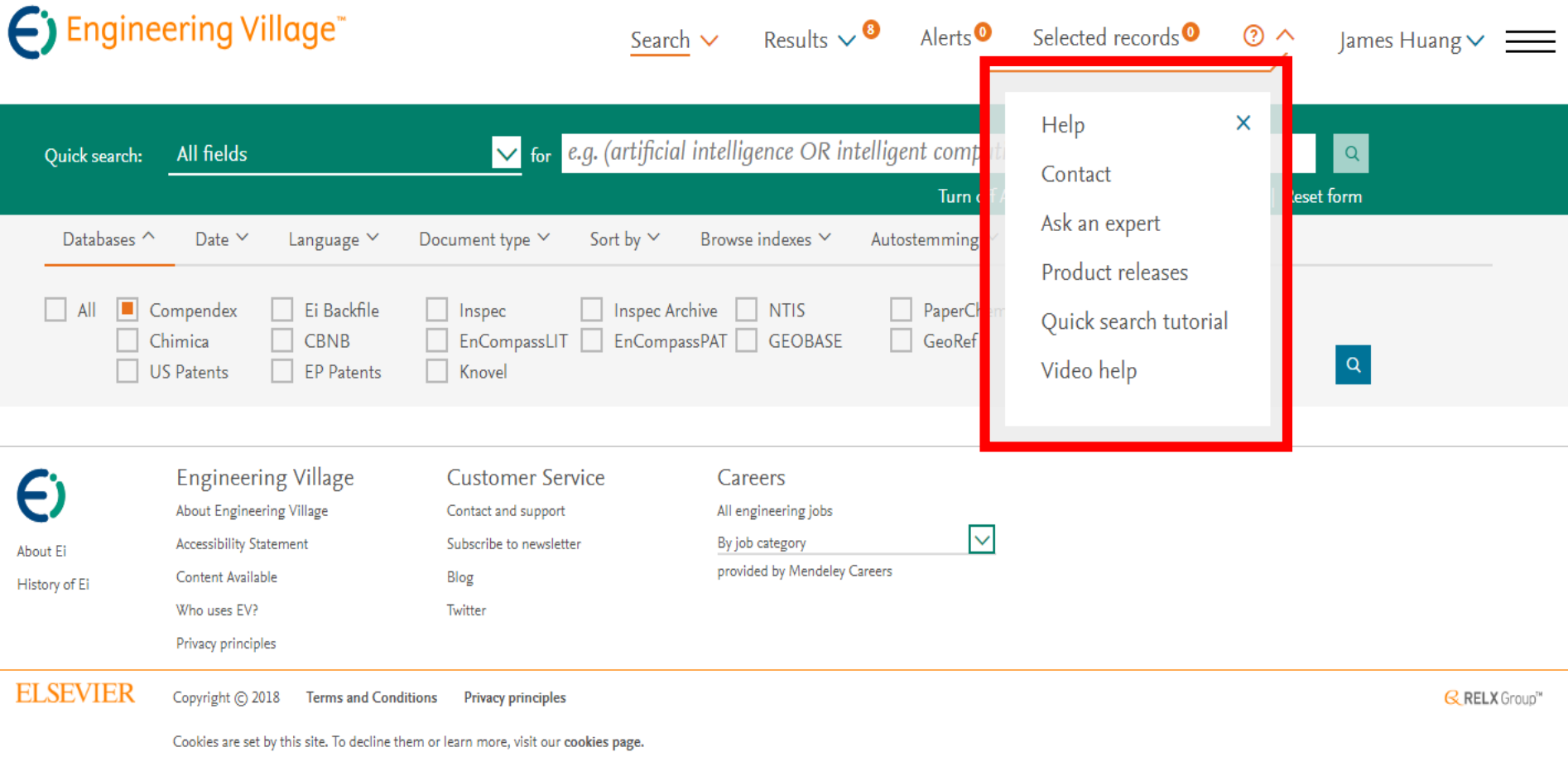
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