

# 碩睿資訊 資料庫教育訓練 -

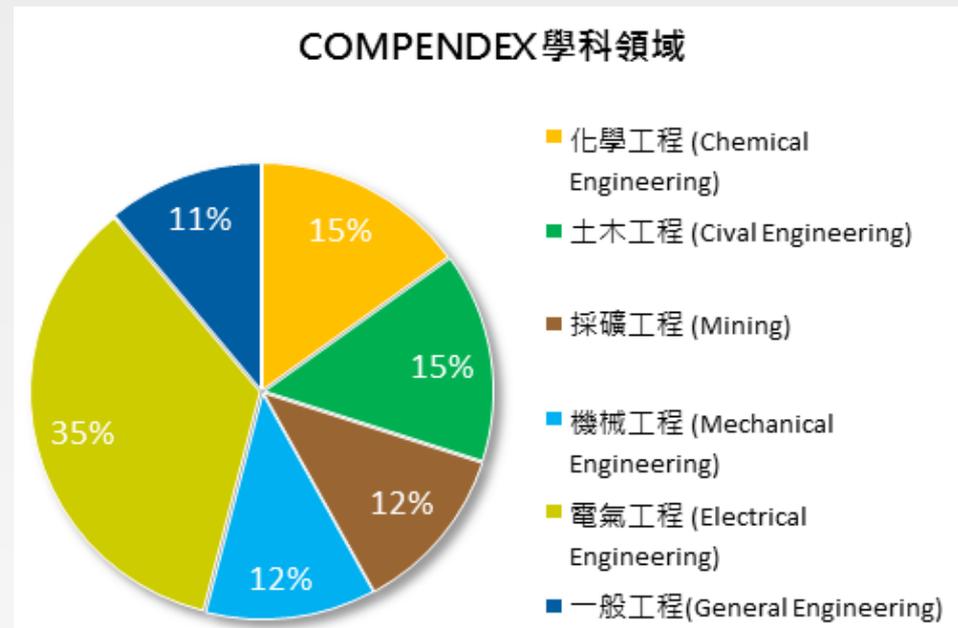


# Engineering Village 介面與收錄內容

- 由美國Elsevier Engineering Information Inc. 所出版，提供工程領域的資訊
- EV 平台介面下 內涵各種多元資料庫：
  - **Compendex**
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  - GeoRef
  - EnCompassLIT & EnCompassPAT
  - Chimica&CBNB
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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 1700 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
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- 更新頻率：每週
- 回溯期刊：1884年-1968年



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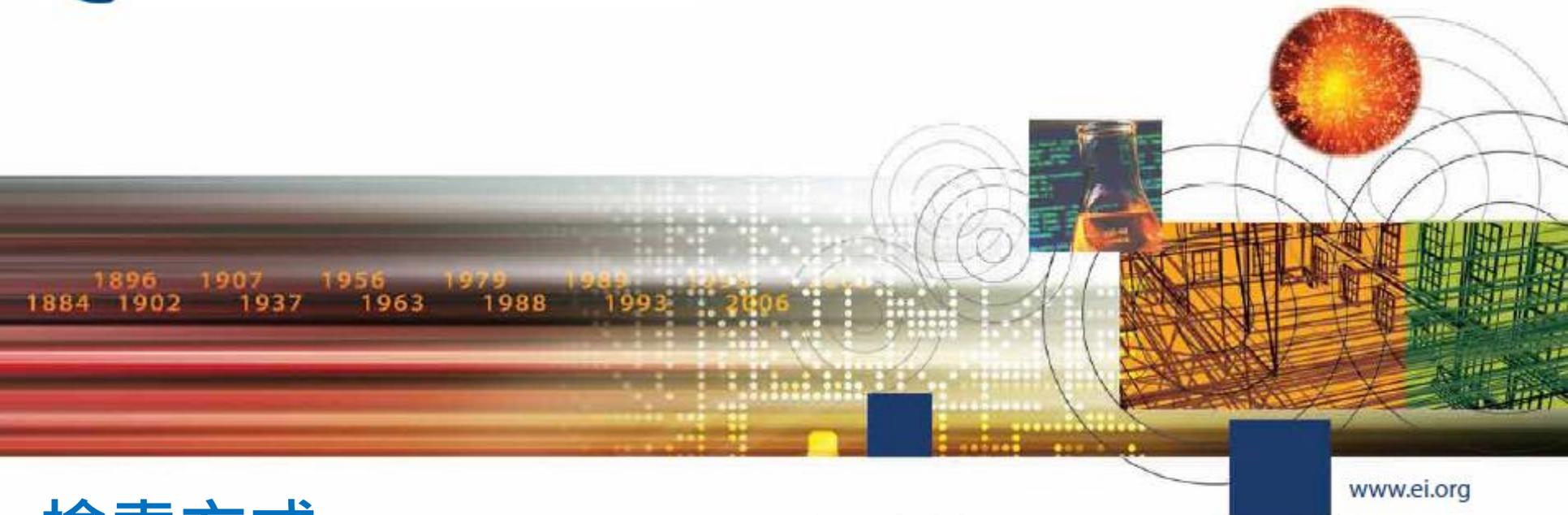
## 檢索利器

1. 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)
2. 專家思維：控制詞彙 – Thesaurus 索引典
3. 使用者思維：自然語彙 – Tag 標籤
4. 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

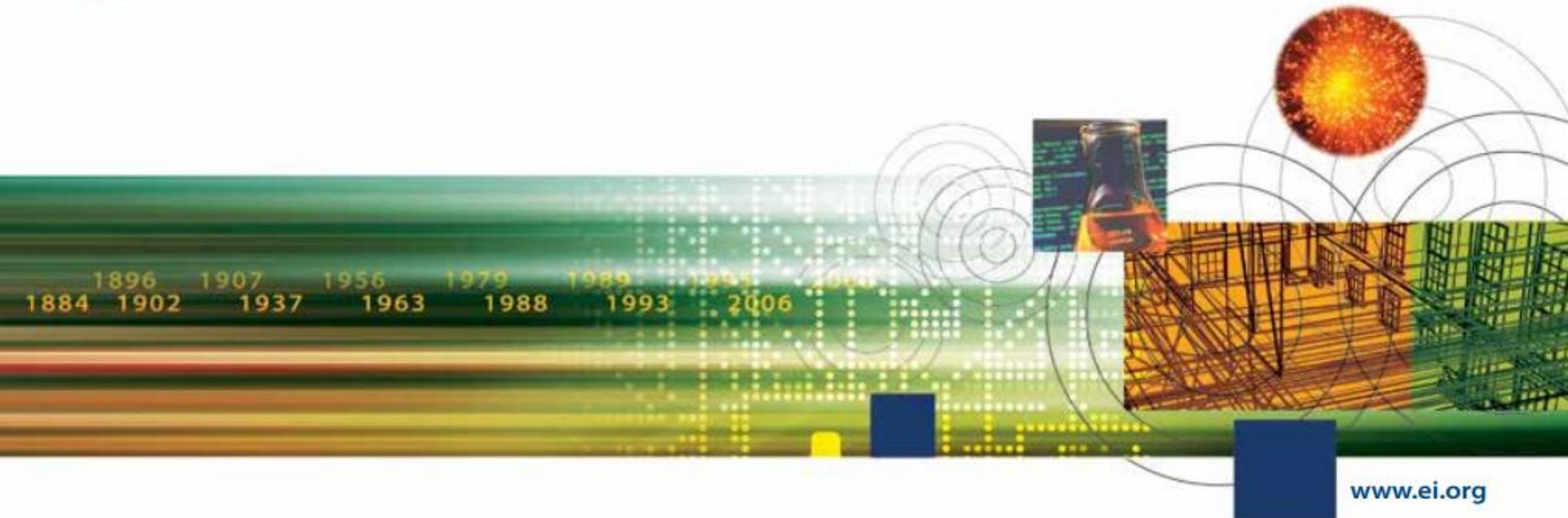


## 檢索方式

- Quick Search - 快速搜尋
- Expert Search - 專家搜尋
- Thesaurus search - 索引典搜尋
- Author Search-作者搜尋
- Affiliation Search-機構蒐尋



## Quick Search - 快速搜尋



[www.ei.org](http://www.ei.org)

## Quick Search – 快速搜尋

# Quick Search

可切換快速搜尋、專家搜尋、索引典搜尋及本次登入檢索記錄

Search

Results

Alerts <sup>0</sup>

Selected records <sup>0</sup>

?

James Huang



## Quick search

Search in: All fields for

Search for... e.g. transcription factors AND jon smith

AND All fields for

Search for... e.g. transcription factors AND jon smith

- 相似詞搜尋 (建議開啟)
- 增加搜尋欄位

Turn off AutoSuggest | + Add search field | Reset form

Databases ^

Date v

Language v

Document type v

Sort by v

Browse indexes v

Autostemming v

Discipline v

Treatment v

All  Compendex

Ei Backfile

Inspec

Inspec Archive

NTIS

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選擇檢索資料庫

限制條件和排序選項 · Browse Index : 可利用索引功能瀏覽 / 查詢作者、作者服務機構、Ei控制詞彙、期刊名稱和出版社

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## 結果頁面 - 1

Quick search: All fields  for artificial intelligence

檢索結果後系統自動提供關聯關鍵詞

Suggested terms: ?

Learning Systems

Computer Science

Computers

Neural Networks

Semantics

Turn on AutoSuggest | + Add search field | Reset form

Databases ▾

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773,927 records

Found in Compendex &amp; Ei Backfile for 1884-2020: ((artificial intelligence) WN ALL)

1 of 30,958 pages &gt;

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Display: 25

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Refine &lt;&lt;



Display: 25

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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)1.  Research and implementation of financial decision model based on artificial intelligenceZhao, 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

Database: Compendex

Document type: Journal article (JA)

Detailed Show preview ▾

Feedback [↗](#)2.  English speech recognition based on artificial intelligenceBai, Tana (Liren College, Yanshan University, China) Source: *Agro Food Industry Hi-Tech*, v 28, n 3, p 2259-2263, May-June 2017

Database: Compendex

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3.  Developing artificial intelligence services that satisfy customer demands: moving forward with social implementation of corevo® technologies... (United Kingdom) Source: *NTT Technical Review*, v 16, n 8, p 7-11,

左側可對檢索結果進一步限縮

文獻內容-摘要形式/文獻內容-詳細格式

# 結果頁面 - 1

Refine <<

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Limit to

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Access type

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Open Access (29,035)

Other (744,892)

Controlled vocabulary

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Artificial Intelligence (233,863)

Learning Systems (60,081)

Computer Science (47,568)

Computers (41,678)

Neural Networks (40,197)

Document type

Conference article

Journal article

Conference proceeding (14,484)

[□](#) [v](#) [✉](#) [🖨](#) [📄](#) [v](#)

Display: 25 [v](#) results per page

- 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  
Database: Compendex  
Document type: Journal article (JA)  
Detailed Show preview [v](#)
- 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)  
Detailed Show preview [v](#)
- 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)  
Detailed Show preview [v](#) Cited by in Scopus (33) [Full text](#) [↗](#)
- Artificial intelligence techniques for driving safety and vehicle crash prediction**  
Halim, Zahid (Faculty of Computer Sciences and Engineering, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Pakistan);  
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勾選後，點按上方或下方的Limit to 或 Exclude進行限縮或排除

# 結果頁面 - 2

Selected Records : 暫存文章

管理搜尋結果 : 寄E-mail/列印/下載書目資訊/存到我的資料夾/移除重複文章

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

Create alert

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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

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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)

Learning Algorithms

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View more

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- 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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- English speech recognition based on deep learning**  
 Bai, Tana (Liren College, Yanshan University, China) Source: *Journal of Intelligent and Fuzzy Systems*, v 28, n 3, p 223-230, May-June 2015  
 Database: Compendex  
 Document type: Journal article (JA)  
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- 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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- 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  
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## 結果頁面 - 2

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

1 of 4,276 pages &gt;

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Refine &lt;&lt;

By physical property

Filter results by physical properties such as size, temperature, pressure and many more &gt;

By category

Download all &gt;

Limit to

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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)
- Learning Algorithms (5,223)



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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

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Captures

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

del-Rey-Maestre, Nerea <sup>1</sup> ✉; Moya, David <sup>1</sup> ✉; Jarabo-Amores, María-Pilar <sup>1</sup> ✉; Gomez-del-Hoyo, Pedro-Jose <sup>1</sup> ✉; Barcena-Humanes, Jose

Source: *Engineering Applications of Artificial Intelligence* 78 (2018) 1033–1044; ISSN: 09521976; DOI: 10.1016/j.engai.2018.08.011

Author affiliation: <sup>1</sup> 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 clutter. A constrained Generalized Likelihood Ratio (CGLR) approach is proposed to approximate the Neyman–Pearson (NP) in cluttered environments. The CGLR is compared to conventional implementations based on Doppler filterbanking 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

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, Lingman · Yue, Qi... (2018) *Dia* Feedback  *Journal of Electronics and Information Technology* Database: Compendex

Local degrees of freedom of airborne array radar clutter for STAP

Zenghui, Zhang ; Wenchong, Xie ; ... (2009) *IEEE Geoscience and Remote Sensing Letters* Database: Compendex

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**Author affiliation**：每位作者的所屬機構

**E-mail**：主要作者聯絡資訊  
**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

Abstract

Detailed

Compendex Refs <sup>43</sup>

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Link-outs: 18

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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 <sup>1</sup> ✉; Mata-Moya, David <sup>1</sup> ✉; Jarabo-Amores, María-Pilar <sup>1</sup> ✉; Gomez-del-Hoyo, Pedro-Jose <sup>1</sup> ✉; Barcena-Humanes, Jose-Luis <sup>1</sup> ✉

Author affiliation : <sup>1</sup> 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](mailto: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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- Artificial intelligence** techniques for small boats detection in radar clutter. Real data validation ([Open Access](#))

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

Author affiliation: <sup>1</sup> 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](mailto:david.mata@uah.es))

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### 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 of freedom for airborne array radar clutter for SIAP**

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This article has been cited **0 times** in Scopus since 1996.

Author details:

del-Rey-Maestre, N

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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**  
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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**

## Related Documents

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**Airborne Bistatic Radar Clutter Suppression Based on Sparse Learning**

Lü, Xiaode ; Yang, Jingmao ; (2018) *Dianzi Yu Xinyi Yuebao*  
*Electronics and Feedback*  
Database: Compendex

**Local degrees of freedom of array radar clutter for STAP**

Zenghui, Zhang ; Wenchong, (2009) *IEEE Geoscience and Remote Sensing Letters*  
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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](#)<sup>1</sup> ✉; [Mata-Moya, David](#)<sup>1</sup> ✉; [Jarabo-Amores, María-Pilar](#)<sup>1</sup> ✉; [Gomez-del-Hoyo, Pedro-Jose](#)<sup>1</sup> ✉; [Barcena-Humanes, Jose-Luis](#)<sup>1</sup> ✉

Author affiliation: <sup>1</sup> Department of Signal Theory and Communications, Superior Polytechnic School, University of Alcalá, 28805 Alcalá de Henares, Madrid, Spain

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

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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 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 Xinxu Xuebao/Journal of Electronics and Information Technology*  
Database: *Compendex*

**Local degrees of freedom for airborne array radar clutter for SIAP**  
Zenghui, Zhang ; Wenchong, Xie ; Weid... (2009) *IEEE Geoscience and Remote Sensing Letters*  
Database: *Compendex*

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### Conferences

### Articles in Press

### Book Chapters

### Standards

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## Tools in Scopus

This article has been cited **0 times** in Scopus since 1996.

### Author details:

[del-Rey-Maestre, N](#)

# 文獻加值內容：PlumX Metrics



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：

- 1.使用(Usage):** 蒐集自資料庫點擊、下載、瀏覽、影片播放次數等
- 2.擷取(Captures):** 蒐集自Mendeley、Goodreads等，被加入書籤、我的最愛、Readers等
- 3.社群媒體(Social Networks):** 蒐集自FaceBook、Google+、Reddit等按讚、分享、轉推等
- 4.引用(Citations):** 蒐集自PubMed Central、Scopus、PMC Europe、USPTO等資料庫被引用情形
- 5.提及(Mentions):** 蒐集自部落格文章、評論、留言、維基百科等

# 文獻加值內容：PlumX Metrics



## Artificial intelligence techniques for driving safety and vehicle crash prediction

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?

[Learn more](#)

USAGE ^	570	CAPTURES ^	55	SOCIAL MEDIA ^	2	CITATIONS ^	5
Abstract Views	391	Readers	47	Shares, Likes & Comments	2	Citation Indexes	5
EBSCO	391	Mendeley	40	Facebook	2	Scopus	5
Link-outs	146	Mendeley	6			CrossRef	2
EBSCO	146	Mendeley	1				
Full Text Views	33	Exports-Saves	8				
EBSCO	33	EBSCO	8				

### ARTICLE SUMMARY

DOI:

10.1007/s10462-016-9467-9

AUTHOR(S):

Zahid Halim; Rizwana Kalsoom; Shariq Bashir; Ghulam Abbas

PUBLISHER(S):

Springer Nature

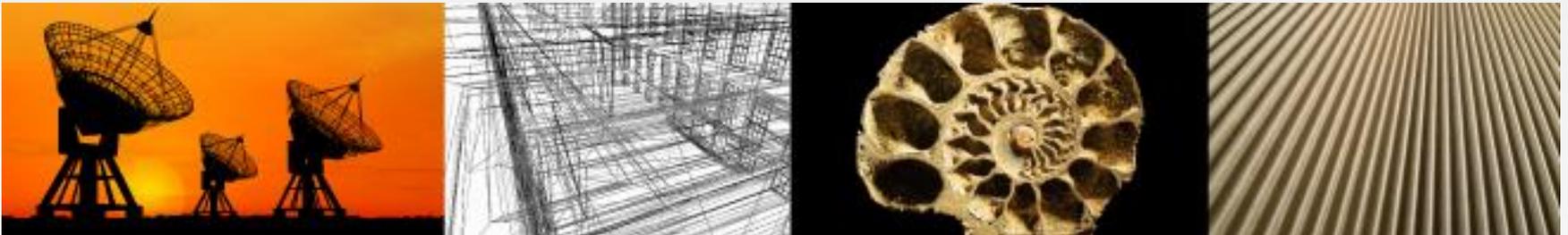
TAGS:

### 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

點按Detail可查看各指標詳細資訊，包含各種來源及詳細次數，下方亦有此article的簡易資訊

# 結果中再檢索



# Refine Result 結果再檢索

1,190,993 records found in Compendex & Inspec for 1884-2020: (((artificial intelligence) WN ALL))

1 of 47,640 pages >

Create alert

Save search

Share search

RSS feed

Sort by: Relevance



Refine <<

Remove duplicates ?

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

(29,116)

Other

(1,161,877)

Controlled vocabulary

Artificial Intelligence

(265,079)

Learning (Artificial Intelligence)

(226,515)

Learning Systems

(63,922)

Data Mining

(54,574)

Neural Nets

(50,154)

View more >

Document type

Conference article

(892,621)

Journal article

(261,188)



Display: 25 results per page

- Research Progress and Application of Computer Artificial Intelligence Technology**  
 Jin Wei (Northwestern Polytech. Univ. Ming De Coll., Xi'an, China) Source: *MATEC Web of Conferences*, v 176, p 01043 (5 pp.), 2018  
 Database: Inspec  
 Document type: Conference article (CA)  
 Detailed Show preview Full text
- Artificial Intelligence and Modern Home Design**  
 Jialu Song; Yifei Li Source: *MATEC Web of Conferences*, v 227, p 02004 (5 pp.), 2018  
 Database: Inspec  
 Document type: Conference article (CA)  
 Detailed Show preview Full text
- Brain intelligence: go beyond artificial intelligence**  
 Huimin Lu (Kyushu Inst. of Technol., Kita Applications, v 23, n 2, p 368-75, April 2018)  
 Database: Inspec  
 Document type: Journal article (JA)  
 Detailed Show preview Cited by Feedback
- Discussion About Artificial Intelligence**  
 Xiaofei Teng (High Sch. Affiliated, Renmin Database: Inspec  
 Document type: Conference article (CA)  
 Detailed Show preview Full text
- The Uncertain Future of Artificial Intelligence**  
 Dasoriya, R. (Dept. of Comput. Eng., SVKMs NMIMS Mukesh Patel Sch. of Technol. Manage. & Eng., Mumbai, India); Rajpopat, J.; Jamar, R.; Maurya, M. Source: *2018 8th International Conference on Cloud Computing, Data Science & Engineering (Confluence)*, p 458-61, 2018  
 Database: Inspec  
 Document type: Conference article (CA)  
 Detailed Show preview Full text

•在Refine Results檢索結果中:可依作者、作者所屬機構、國家、文獻種類等類別進階篩選:可Include或是Exclude一個或多個標目

•在Refine Results中可結合超過一個以上的分析項目,透過每筆標目前的勾選框勾選要結合的記錄

# 結果頁面 - 1

By category

Download all  

Limit to Exclude

Add a term

Access type   

- Open Access (29,116)
- Other (1,161,877)

Controlled vocabulary   

- Artificial Intelligence (265,079)
- Learning (Artificial Intelligence) (263,515)
- Learning Systems (1,161,877)
- Data Mining (1,161,877)
- Neural Nets (1,161,877)

View more >

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)
- University of California (1,663)
- University of Illinois (1,346)
- University of Iowa (1,298)

View more >

Classification code   

Country   

Language   

Year   

Source title   

Publisher   

Database   

Limit to Exclude

New search with facets 

限縮面版提供12種欄位進行篩選，亦提供每一欄位進行圖表顯示及匯出功能

輸入關鍵字開啟新的搜尋

# 結果頁面 - 1

Author

Wang, Wei (675)

Liu, Yang

Wang, Lei

Li, Li

Zhang, Lei



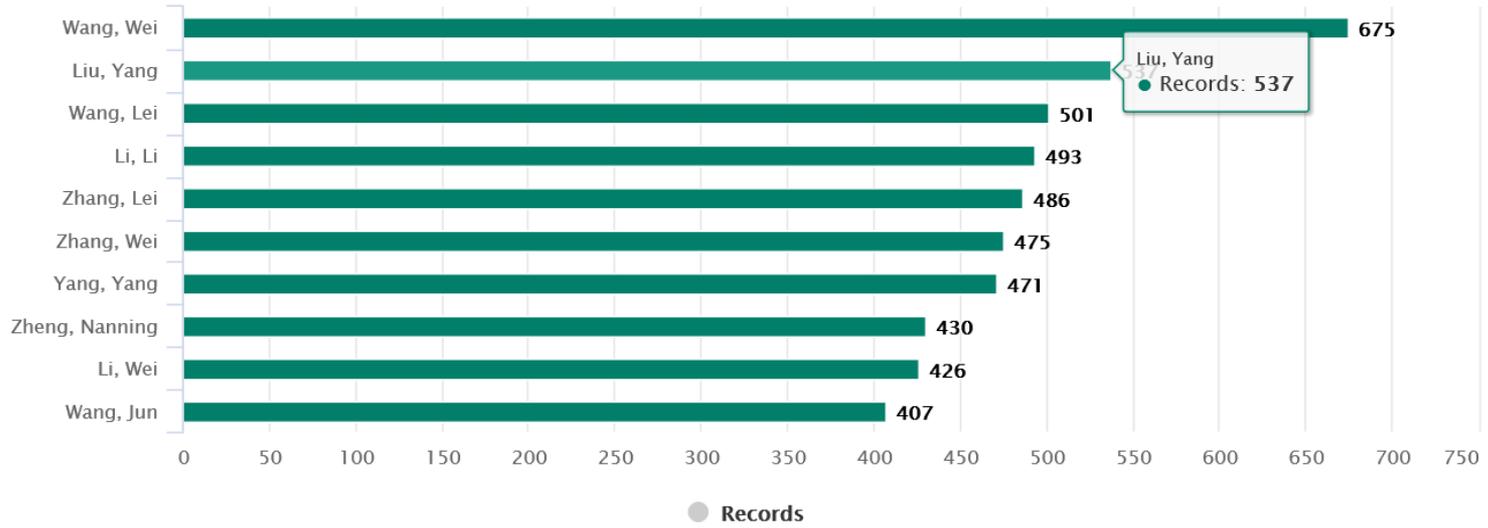


以作者為例，透過欄位圖表顯示，可更了解在該主題下，作者發文量的多寡及比較

Author   

Search: (((artificial intelligence) WN ALL))

Click to limit your results



Author	Records
Wang, Wei	675
Liu, Yang	537
Wang, Lei	501
Li, Li	493
Zhang, Lei	486
Zhang, Wei	475
Yang, Yang	471
Zheng, Nanning	430
Li, Wei	426
Wang, Jun	407

View: 10 Max

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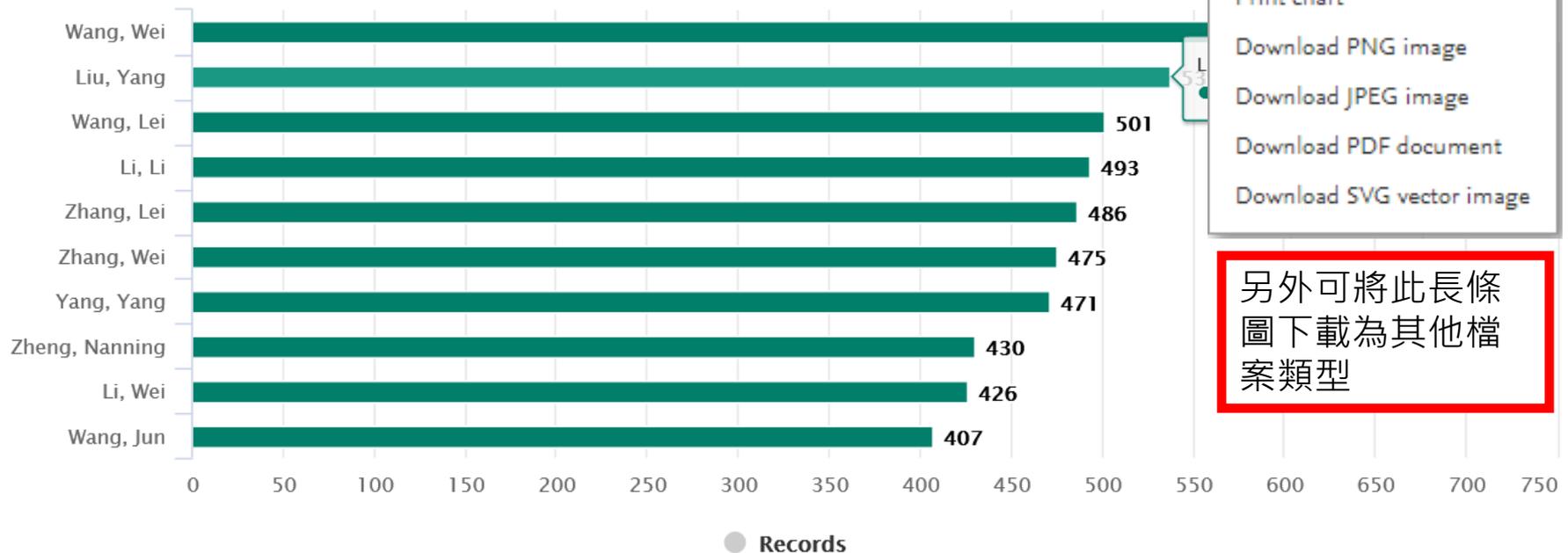
# 結果頁面 - 1

Author   

Search: (((artificial

Click to limit your results

上方功能亦可直接進行下載(csv檔)，可透過Excel另外製作個人化圖表



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View: 10 Max

# Refine Results Graphs & Export

- 點選  圖示可以讓您在將圖表輸出成CSV檔案



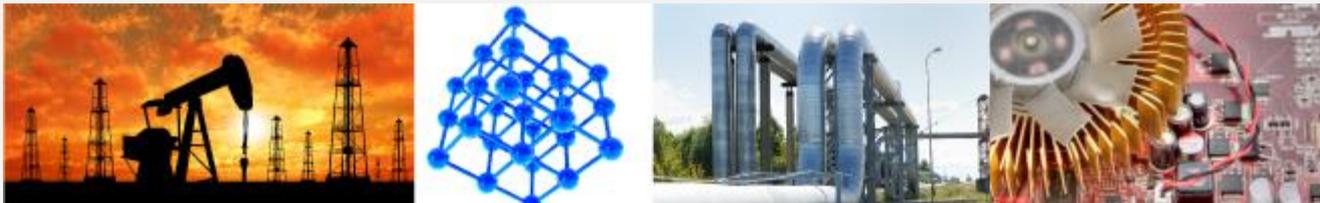
- 您也可以將輸出的檔案以 **Excel** 軟體開啟分析管理



# 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
  - 所有的EV使用者
  - 個人所屬機構中的使用者
  - 只在個人所屬的研究團隊
  - 只限個人使用，不對其他人公開

注意，此為個人化功能，需註冊及登錄後才能使用。



# Tag 文章

## Record

Record 5 from Inspec for: ((Artificial Intelligence) WN All fields) , 1884-2018



Search term color

< 5 of 988931 >

< Back to results

Full text



Abstract

Detailed

### Artificial intelligence research in the second half century

Nishida, T. <sup>1</sup>

**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 :** <sup>1</sup> 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 intelligence and artificial intelligence to meet the needs of future level of artificial intelligence. (14 p.)

#### Add a tag ⓘ

Public



Public

Add

Private

My Institution

Top graphene

- 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
- Top graphene = 自定分享群組

treatment. Theoretical or Mathematical (TRK)

# Tag 透過標籤檢索可提升效果



Engineering Village

Search ▾

Results ▾ <sup>12</sup>Alerts <sup>0</sup>Selected records <sup>1</sup>

Bulletins

More ▾

? ▾

⌵ ▾

JH

## Tags & Groups

Browse tags

Search tags

View/Edit groups

Rename/Delete tags

Display: Public ▾

1 Ad Hoc networks Arabidopsis thaliana assessment BUPT cad... electrochemical  
 properties Electronic cooling Electronics cooling ESJP Failu... n production  
 Informatics information literacy Information Visualization Lea... Nanoparticles  
 Ni Chen Noise sources Numerical modeling Oil Spills Paper... crystal fibers  
 Photonic crystals Power Quality Room temperature Sea Surface Temperature SST Sensor networks Silicon photonics Soil properties Standard deviation Stars Structural  
 elements Suction Support Vector Machine SVM Support Vector Machines Support Vector Machines SVM survey paper tag clouds tagging Temperature sensors Thermal  
 aging Thermal management Thermal protection systems Triaxial tests Unsaturated Soils Volume rendering Water content Water management Web Services  
 Wireless Sensor Networks

Folders

Tags &amp; groups

Interactive equations

Sort: Alphabetical ▾

- 使用者可自行指定“任何”有意義的關鍵字做為標籤
- 使用者也可以編輯標籤

- 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



Engineering

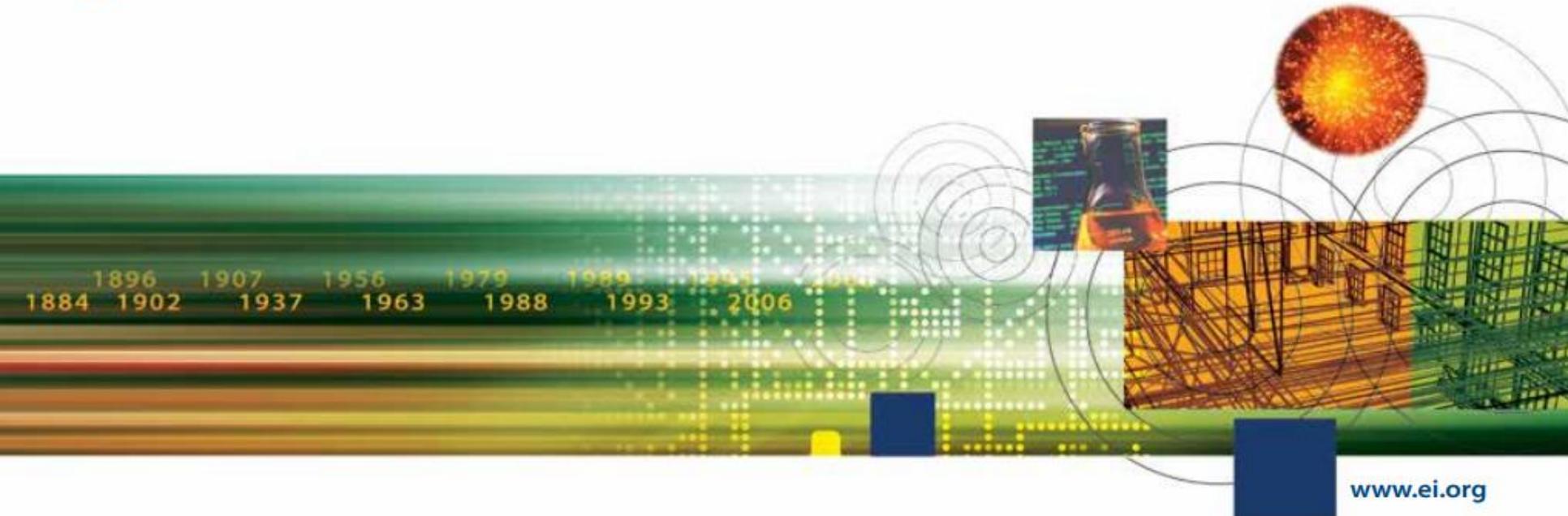
# Tag 團隊間的分享

## View/Edit groups

[Browse tags](#)[Search tags](#)[View/Edit groups](#)[Rename/Delete tags](#)[Create new group](#)

Name	Date	Description	Members	Tags	Actions
Top graphene	Oct 26, 2016 上午8:34:35		James Huang		 

- 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
- 可選擇透過電子郵件將新增的標籤資料分享給分組成員



# 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\*)*

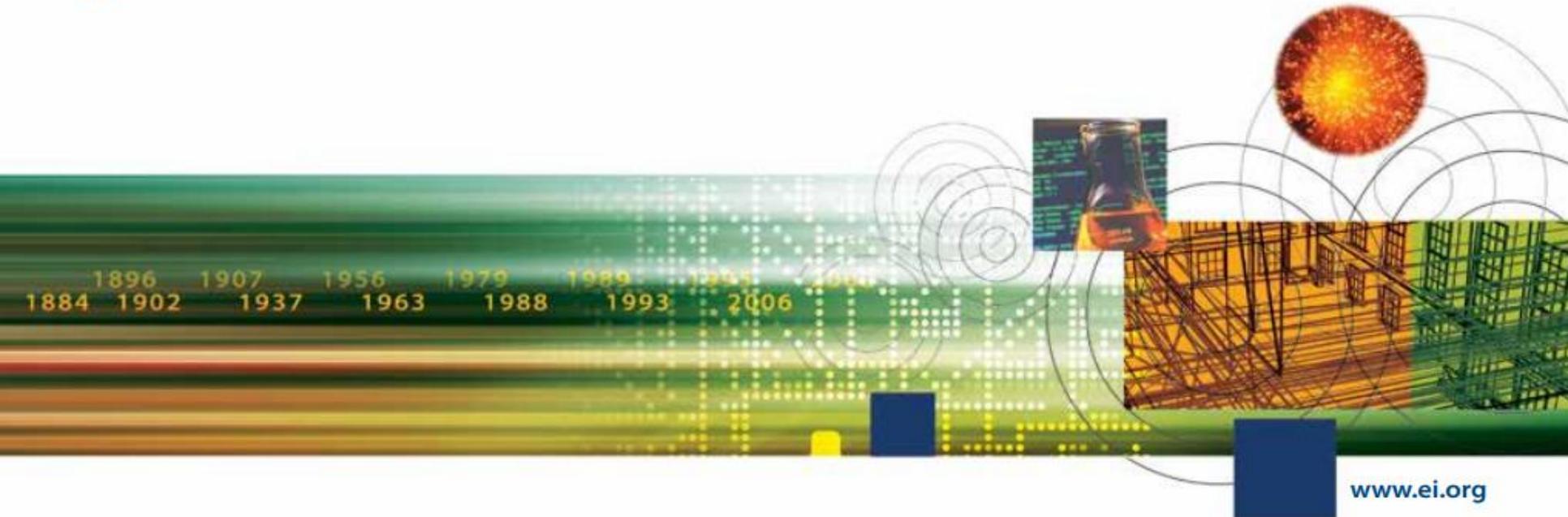
檢索代碼

Databases ▾ Date ▾ Sort by ▾ Autostemming ▾ Search codes ▲ Browse indexes ▾

Database	Code = Field	Code = Field
c = Compendex	AB = Abstract (c,i)	BN = ISBN (c,i)
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)
	CL = Classification code (c,i)	OC = Original classification code (i)
	CN = CODEN (c,i)	PA = Patent application date (c)

Codes displayed will depend on your current database selection

## Thesaurus Search - 索引典搜尋



## Thesaurus Search – 索引典搜尋



# THESAURUS索引典

為Engineering Village 最引以傲的功能

一般口語表達用詞為**自然語言**，但每人對詞彙認知與用法有所差異，學術文獻的用字措辭更是嚴謹，需避免自然語言混淆不清或模稜兩可用法。

透過專家編寫的**索引典(Thesaurus)**，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

•Broader Term  
廣義詞



Climatology  
氣候

•Related Term  
相關詞



Climate Change  
氣候變遷

Air pollution  
空氣汙染

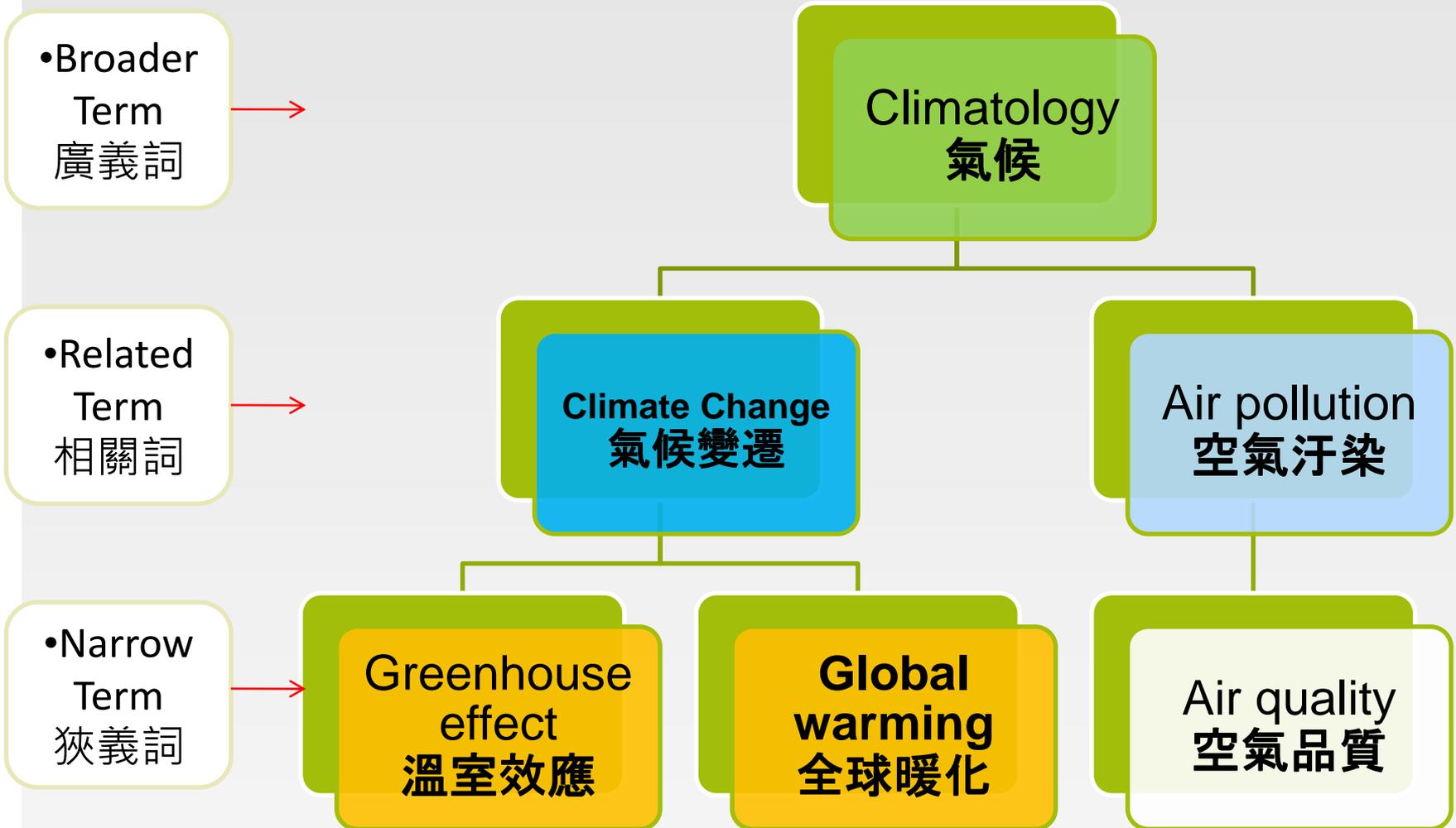
•Narrow Term  
狹義詞



Greenhouse effect  
溫室效應

Global warming  
全球暖化

Air quality  
空氣品質

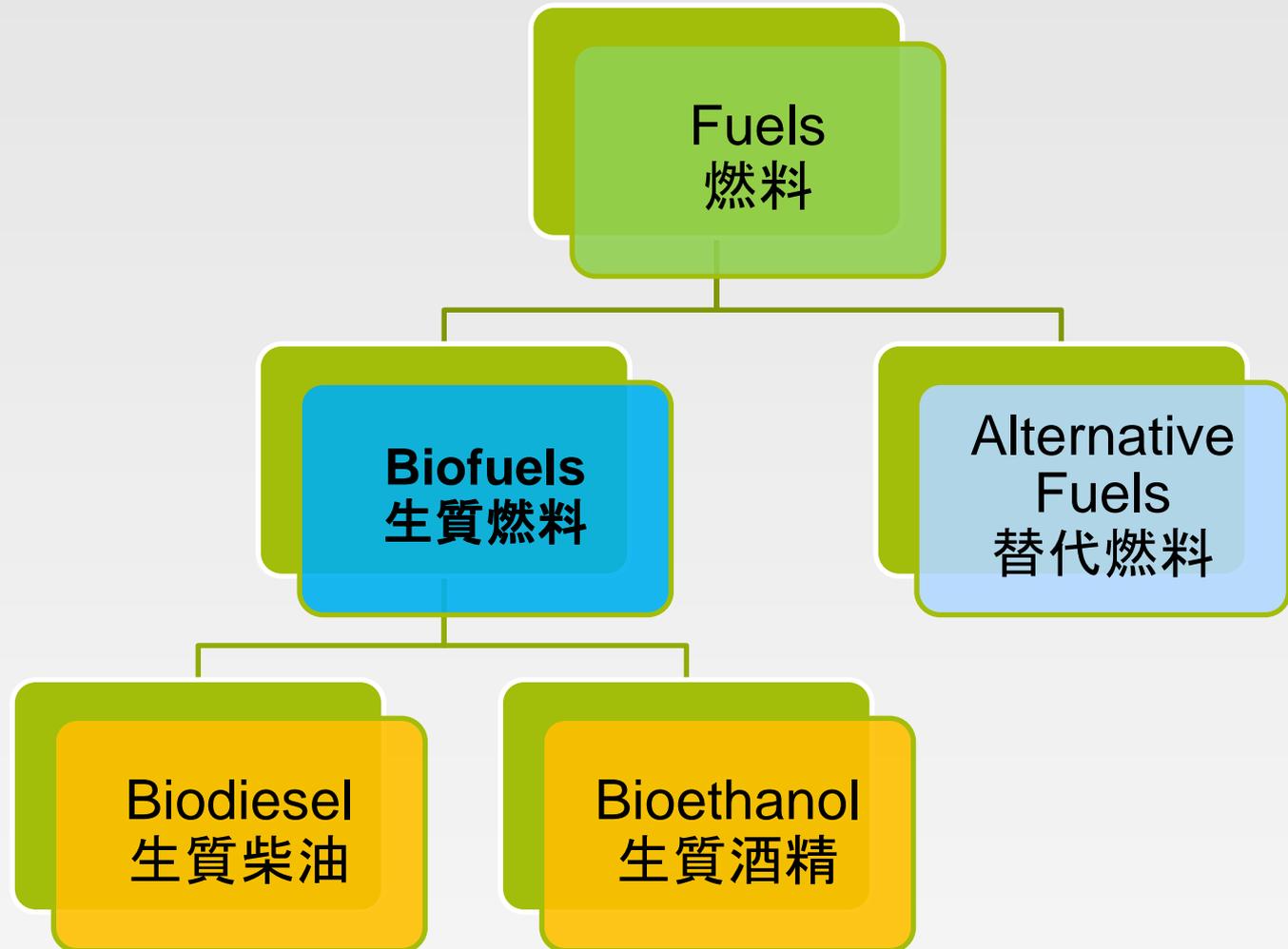


# THESAURUS索引典

•Broader Term  
廣益詞

•Related Term  
相關詞

•Narrow Term  
狹義詞



# THESAURUS索引典



Engineering Village

Search Results Alerts Selected records Bulletins More ? 12 0 1 JH

Thesaurus search:

Browse



for radiati

Database:



Compendex



Inspec



GeoRef

Quick

Expert

Thesaurus

Author

Affiliation

Engineering School Profile

可利用索引典：自動衍生工程專用同義詞彙

Browse term results ^

radiation

Term

- Radial flow turbomachinery
- Radial tires
- Radiant heating
- Radiation
- Radiation (heat)*

Term

- Radiation accidents*
- Radiation belts
- Radiation chemistry
- Radiation counters
- Radiation damage

Select term by using the checkboxes or find additional terms by clicking on the term...

AND  
 OR

Reset form



Date Document type Language Discipline Treatment Sort by

Feedback

利用Browse檢索索引典，可查看文字符合索引典字典的關鍵詞

# THESAURUS索引典



Engineering Village

Search ▾

Results ▾ <sup>12</sup>Alerts <sup>0</sup>Selected records <sup>1</sup>

Bulletins

More ▾

? ▾

Library ▾

JH

Thesaurus search

Vocabulary search ▾

for radiation

Search index 🔍

Database:



Compendex



Inspec



GeoRef



GEOBASE



EnCompass

156 matching terms ^

radiation

1 of 16 &gt;

Term

- Accelerator shielding
- Aircraft--Radiation hazards\*
- Antenna radiation
- Antenna radiation patterns*
- Antennas

Term

- Antennas--Radiation\*
- Atmospheric radiation
- Atmospheric thermodynamics
- Biological effects of radiation*
- Biological radiation effects

Selected term(s) &gt;

Select term by using the checkboxes or find additional terms by clicking on the term...



AND



OR

Reset form



Date ▾

Document type ▾

Language ▾

Discipline ▾

Treatment ▾

Sort by ▾

Feedback 🗨

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



Engineering Village

Search ▾

Results ▾ <sup>12</sup>Alerts <sup>0</sup>Selected records <sup>1</sup>

Bulletins

More ▾

? ▾

🏠 ▾

JH

Thesaurus search

Exact term ▾



for radiation

Search index 🔍

Database:



Compendex



Inspec



GeoRef



GEOBASE



EnCompass

Exact term results ^

radiation

 Radiation 📄

Broader terms

 Physics

Related terms

- Irradiation
- Radiation hazards
- Radiation protection
- Radiation shielding
- Radioactivity
- Radioactivity measurement
- Radiogenic gases
- Radionuclides

Narrower terms

- Cosmic rays
- Electromagnetic waves
- Ionizing radiation
- Radiation effects
- Radiation flux density
- Radiative transfer
- Solar radiation

Selected term(s) &gt;

Radiation protection ×

Electromagnetic waves ×

 AND OR

利用Exact term檢索關鍵字，可查索引典字典有廣義、狹義、關聯的關鍵詞

# 索引典檢索：Thesaurus (Exact Term)



Engineering Village

Search ▾

Results ▾ <sup>12</sup>Alerts <sup>0</sup>Selected records <sup>1</sup>

Bulletins

More ▾

? ▾

Thesaurus search: Exact term ▾

for radiation

Search index 🔍

Database:



Compendex



Inspec



GeoRef



GEOBASE



EnCompass

## Exact term results ^

radiation

 Radiation 📄

Broader terms

 Physics

Related terms

- Irradiation
- Radiation hazards
- Radiation protection
- Radiation shielding
- Radioactivity
- Radioactivity measurement
- Radiogenic gases
- Radiolysis

Narrower terms

- Cosmic rays
- Electromagnetic waves
- Ionizing radiation
- Radiation effects
- Radiation flux density
- Radiative transfer
- Solar radiation

Selected term(s) &gt;

 AND  
 OR

Radiation protection ×

Electromagnetic waves ×

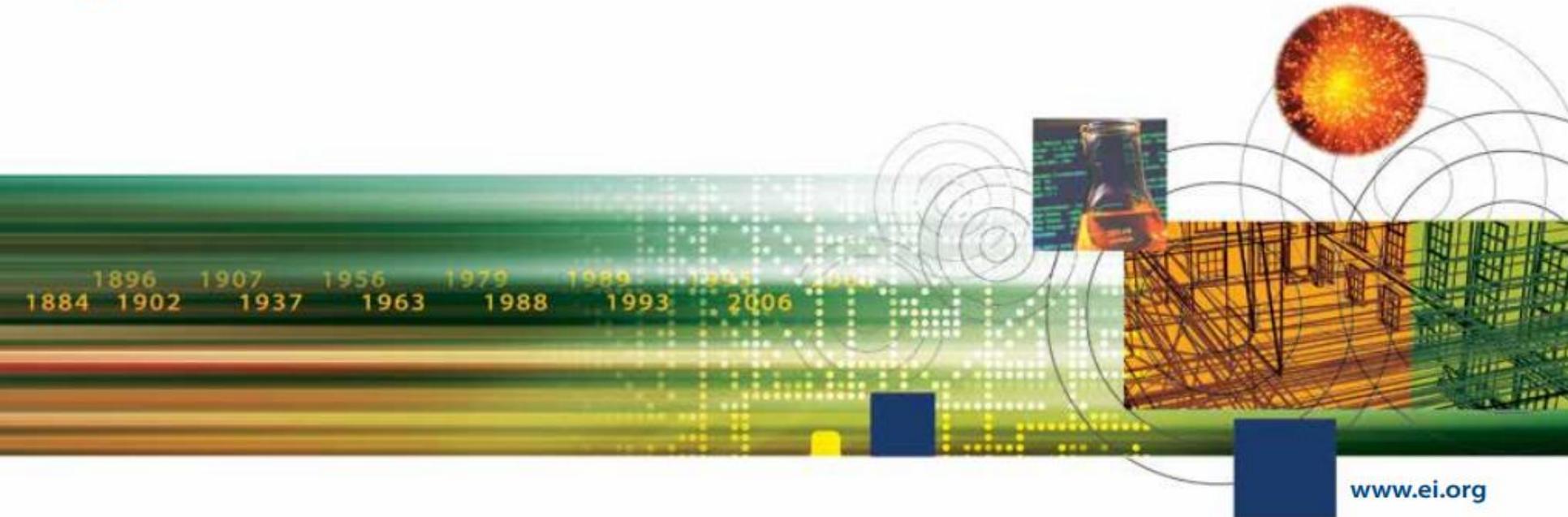
Reset form



Feedback 🗨️

開啟上下位或相關詞彙& 自動組合多個詞彙以利合併檢索

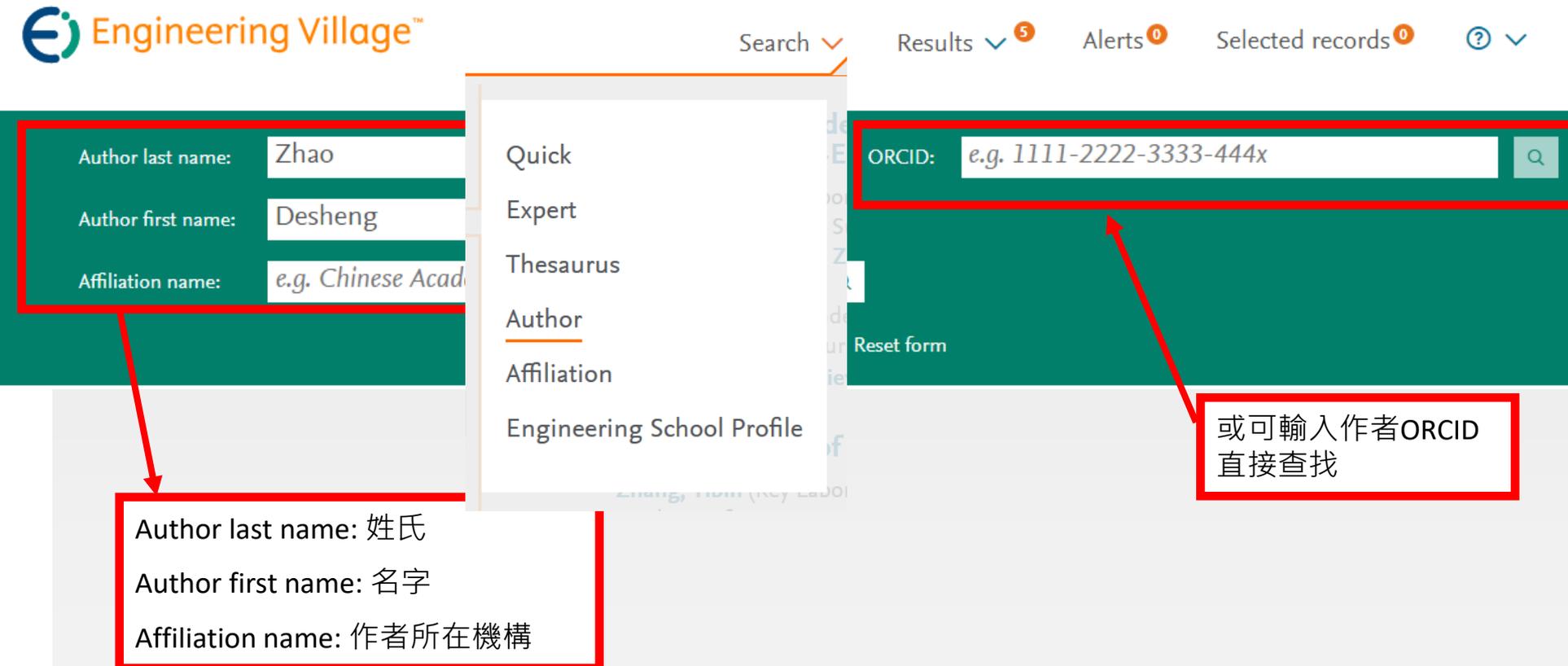
## Thesaurus Search - 索引典搜尋



## Author Search – 作者搜尋



# Author Search – 作者檢索(直接查詢作者所著文章)



The screenshot shows the Engineering Village search interface. On the left, there are three input fields: 'Author last name: Zhao', 'Author first name: Desheng', and 'Affiliation name: e.g. Chinese Acad'. A red box highlights these fields, with an arrow pointing to a text box containing their Chinese equivalents: 'Author last name: 姓氏', 'Author first name: 名字', and 'Affiliation name: 作者所在機構'. In the center, a dropdown menu is open, listing search options: 'Quick', 'Expert', 'Thesaurus', 'Author' (which is underlined), 'Affiliation', and 'Engineering School Profile'. On the right, there is an 'ORCID:' input field with the example 'e.g. 1111-2222-3333-444x' and a search icon. A red box highlights this field, with an arrow pointing to a text box that says '或可輸入作者ORCID 直接查找'. At the top right, there are navigation links for 'Search', 'Results' (with a '5' badge), 'Alerts' (with a '0' badge), and 'Selected records' (with a '0' badge).

Author last name: Zhao

Author first name: Desheng

Affiliation name: e.g. Chinese Acad

ORCID: e.g. 1111-2222-3333-444x

Quick

Expert

Thesaurus

Author

Affiliation

Engineering School Profile

Author last name: 姓氏

Author first name: 名字

Affiliation name: 作者所在機構

或可輸入作者ORCID 直接查找

# 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	Name	Subject area	Affiliation name	City	Country
<b>By category</b> <input type="button" value="Limit to"/> <input type="button" value="Exclude"/> <b>Source Title</b> <input type="checkbox"/> 2014 11th China International Forum On Solid State Lighting Sslchina 2014 (1) <input type="checkbox"/> Acta Biomaterialia (1) <input type="checkbox"/> Acta Chimica Sinica (1) <input type="checkbox"/> Agro Food Industry Hi Tech (1) <input type="checkbox"/> Biochemical And Biophysical Research Communications (1) <a href="#">View more &gt;</a>	1. Zhao, Desheng Zhao, D. S. <input type="button" value="View 9 records"/>	Materials Science; Engineering; Physics and Astronomy;	Chinese Academy of Sciences	Beijing	China
	2. Zhao, Desheng Zhao, D. S. Zhao, D. Zhao, De Sheng <input type="button" value="View 3 records"/>	Environmental Science; Immunology and Microbiology; Pharmacology, Toxicology and Pharmaceutics; ...	Anhui Medical University	Hefei	China
	3. Zhao, Desheng Zhao, De Sheng <input type="button" value="View 2 records"/>	Computer Science; Physics and Astronomy; Engineering;	Xi'an Institute of Posts and Telecommunications	Xi'an	China
<b>Country</b> <input type="checkbox"/> China (6) <input type="checkbox"/> Finland (2)	4. Zhao, Desheng Zhao, D. S. <input type="button" value="View 2 records"/>				
<b>City</b>	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)

9 records found in Compendex for 1884-2018: 16445206100 WN auid

1 of 1 pages

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Numeric filter 

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Document type  

Journal article (8)

Conference article (1)

---

Controlled vocabulary  

Light Emitting Diodes (6)

Iii-V Semiconductors (5)

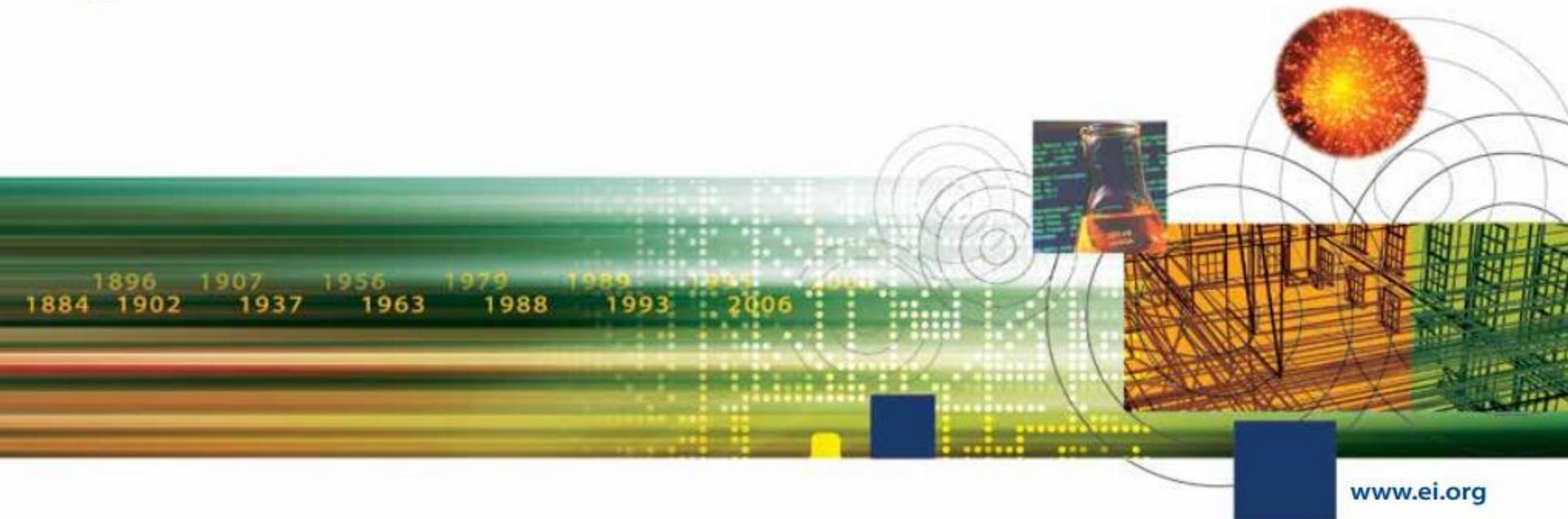
Gallium Nitride (3)

Aluminum Gallium Nitride (2)

High Electron Mobility Transistors (2)

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)  
 Detailed Show preview  **Full text** 
  
2.  **Demonstration of wafer-level white light emitting diode with 92,000 lm luminous flux**  
 Zhang, Yibin (Key Laboratory of Nanodevices and Applications, Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences, 398 Ruo Shui Road, Suzhou Industrial Park; Suzhou; 215123, China); Xu, Jianwei; Zhao, Desheng; Huang, Hongjuan; Ding, Mingdi; Miao, Zhenlin; Wang, Yanming; He, Peng; Zhang, Baoshun; Cai, Yong  
 Source: *Physica Status Solidi (C) Current Topics in Solid State Physics*, v 14, n 8, August 2017  
 Database: Compendex  
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3.  **Demonstration of wafer-level white light emitting diode with 92,000 lm luminous flux**  
 Zhang, Yibin (Key Laboratory of Nanodevices and Applications, Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences, 398 Ruo Shui Road, Suzhou Industrial Park; Suzhou; 215123, China); Xu, Jianwei; Zhao, Desheng; Huang, Hongjuan; Ding, Mingdi; Miao, Zhenlin; Wang, Yanming; He, Peng; Zhang, Baoshun; Cai, Yong  
 Source: *Physica Status Solidi (C) Current Topics in Solid State Physics*, v 14, n 8, August 2017

## Thesaurus Search - 索引典搜尋



[www.ei.org](http://www.ei.org)

## Affiliation Search – 機構搜尋



# Affiliation Search – 機構檢索

Affiliation name:

National Chiao Tung U

Quick

Expert

Thesaurus

Author

Affiliation

Engineering School Profile



機構查詢可查看該機  
Engineering Village之文章，  
以交通大學為例，輸入機構  
英文名稱檢索

# Affiliation Search – 機構檢索

Affiliation name:  Show exact matches only

\* Searches are limited to affiliations within Compendex records

4 affiliation results in Compendex for Affiliation: "National Chiao Tung University"

1 of 1 pages

Display: 25 results per page

Sort by: Count (DESC)

## Refine



By category

Country

 Taiwan (4)

City

 Hsinchu (1) 

	Name	Documents	City	Country
1.	<b>National Chiao Tung University Taiwan</b> National Chiao Tung University	<a href="#">View 43,292 records</a>	Hsinchu	Taiwan
2.	<b>National Chiao Tung University Institute of Electrical Control Engineering</b> National Chiao Tung University Institute of Electrical Control Engineering	<a href="#">View 1 records</a>		Taiwan
3.	<b>Taiwan and National Chiao Tung University</b> Taiwan and National Chiao Tung University	<a href="#">View 1 records</a>		Taiwan
4.	<b>National Chiao Tung University (NCTU) in Taiwan</b> National Chiao Tung University (NCTU) in Taiwan	<a href="#">View 1 records</a>		

因學校在不同文章顯示名稱可能不太相同，因此結果頁面會陳列所有符合之結果。如確認為該結果，即可點擊 View Records

# Affiliation Search – 機構檢索

43,292 records found in Compendex for 1884-2020: (60012370 WN afid)

1 of 1,732 pages >

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Sort by: **Date (Newest)**



## Refine



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### By category

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### Access type

- Open Access (1,535)
- Other (41,757)

### Document type

- Journal article (25,859)
- Conference article (16,990)
- Article in Press (106)
- Book chapter (98)
- Erratum (47)

 Bar chart

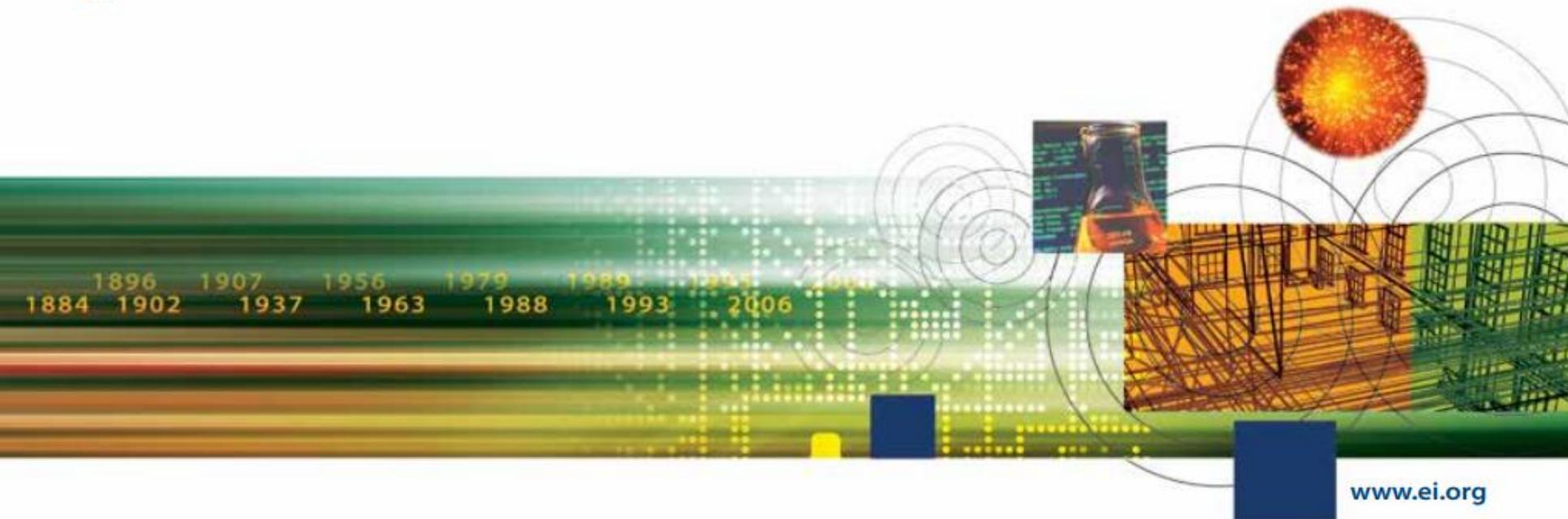
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Display: **25**  results per page

1.  **Nonlinear fuzzy collaborative forecasting methods**  
**Chen, Tin-Chih Toly** (Department of Industrial Engineering and Management, National Chiao Tung University, Hsinchu, Taiwan); **Honda, Katsuhiko** **Source:** *SpringerBriefs in Applied Sciences and Technology*, p 27-44, 2020  
**Database:** Compendex  
**Document type:** Book chapter (CH)  
**Detailed** **Show preview**  **Full text** 
2.  **GLR: A graph-based latent representation model for successive POI recommendation**  
**Lu, Yi-Shu** (Department of Computer Science, College of Computer Science, National Chiao Tung University, Hsinchu, Taiwan); **Huang, Jiun-Long** **Source:** *Future Generation Computer Systems*, v 102, p 230-244, January 2020  
**Database:** Compendex  
**Document type:** Journal article (JA)  
**Detailed** **Show preview**  **Full text** 
3.  **Application of universal design for design improvement of hangers**  
**Liu, Peng-Jyun** (Department of Creative Product Design, Asia University, Lioufeng Road, Wufeng, Taichung; 41354, Taiwan); **Wang, Ching-yi; Hshieh, Yi-Chun; Su, Lin-Chu** **Source:** *Advances in Intelligent Systems and Computing*, v 972, p 424-436, 2020, *Advances in Usability and User Experience - Proceedings of the AHFE 2020 Conferences on Usability and User Experience, and Human Factors and Assistive Technology*  
**Database:** Compendex  
**Document type:** Conference article (CA)  
**Detailed** **Show preview**  **Full text** 
4.  **Linear fuzzy collaborative forecasting methods**

Feedback 



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## Engineering school profile- 工程學校簡介



### Engineering school profile ?

National Chiao Tung University ☆  
23,173 records in Compendex

- Quick
- Expert
- Thesaurus
- Author
- Affiliation
- Engineering School Profile**

to 2020 AND Select subject Area Reset filters

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Search & add

Search institution by name...

National Chiao Tung University + x

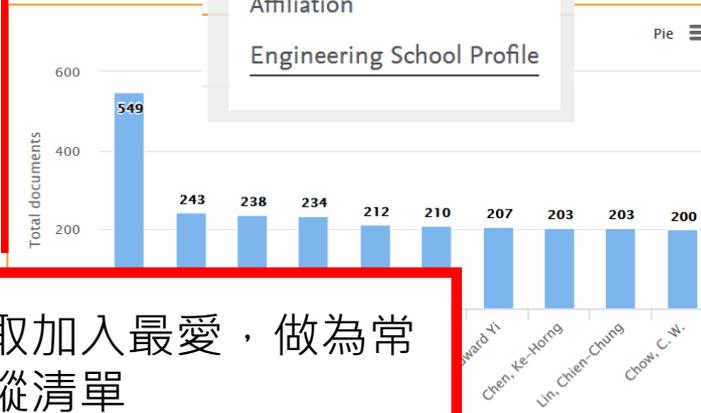
#### Favorites

Massachusetts Institute of Technology x

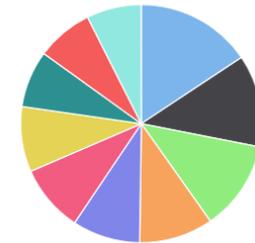
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後，可和學廷議選早後旦有



#### Research focus



- iii-V Semiconductors
- Thin Films
- Cmos Integrated Circuits
- li-Vi Semiconductors
- Zinc Oxide
- Efficiency
- Solar Cells
- Thin Film Transistors
- Light Emitting Diodes
- Substrates

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# 管理檢索結果



# 檢索歷史

結合檢索策略數字，利用布林邏輯結合查詢

## Search history

Combine searches:

#3 AND #2



點選檢索策略重新查詢或修正查詢

View saved searches >

Sort by:



Relevance



Date



Combine searches

Search query

Actions



3.

155938 results in (Compendex & Inspec) for: ((logistics) WN All fields)

Details ▾



2.

988931 results in (Co

Details ^



Query details : 顯示詳細檢索資訊

Clear search history

Type: Quick  
Years: 1884 - 2018  
Sort: Relevance  
Autostemming: on



點 Edit : 編輯搜尋指令



Save Search : 儲存檢索策略 (\* 需要註冊個人帳號)



Create Alert : 建立e-mail新知通報 (\* 需要註冊個人帳號)

# 三種主要保存文章的方法

Record 5 from Inspec for: ((Artificial Intelligence) WN All fields), 1884-2018



Search term color

< 5 of 988931 >

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Full text



Abstract

Detailed

## Artificial intelligence research in the second half century

Nishida, T. <sup>1</sup>

**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 :** <sup>1</sup> 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)

**Inspec controlled terms:** artificial intelligence

**Uncontrolled terms:** artificial intelligence research - second half century - prominent contributions - knowledge-based system - large scale search - language speech image processing - machine learning - data mining - human society - computational intelligence - artificial minds - natural minds

**Classification code:** C1230 Artificial intelligence

**Treatment:** Theoretical or Mathematical (THR)

**Database:** Inspec

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[Abstract](#)

[Detailed](#)

**Artificial intelligence research**

Nishida, T.<sup>1</sup>

Source: *Journal of Information Processing and Japanese*; ISSN: 0021-7298; DOI: 10.1241/Corporation, Japan

Author affiliation : <sup>1</sup> Grad. Sch. of Inf., Kyoto

**Abstract:** Artificial intelligence research has been proceeding to the second stage. In order to proceed to the second stage, I first overview the flow of artificial intelligence research. The most prominent contributions were a large scale knowledge-based system, machine learning and neural network processing, planning, machine learning and neural network processing. Then, I argue that our future target should be designing communicative intelligence that can interact with society and computational intelligence to a large scale.

Inspec controlled terms: artificial intelligence

Uncontrolled terms: artificial intelligence, knowledge-based system - large scale system, learning - data mining - human society -

Classification code: C1230 Artificial intelligence

Treatment: Theoretical or Mathematical (T)

Database: Inspec

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Full text



Abstract

Detailed

 Artificial intelligence research inNishida, T.<sup>1</sup>

Source: *Journal of Information Processing and Management*, Japanese; ISSN: 0021-7298; DOI: 10.1241/johokanri.55.461; Publisher: Japan Science and Technology Corp., Japan

Author affiliation: <sup>1</sup> Grad. Sch. of Inf., Kyoto Univ.

**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.)

Inspec controlled terms: artificial intelligence

Uncontrolled terms: artificial intelligence research - knowledge-based system - large scale search - learning - data mining - human society - computational intelligence

Classification code: C1230 Artificial intelligence

Treatment: Theoretical or Mathematical (THR)

Database: Inspec

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Abstract

### 1. Artificial intelligence research in the second half century

Nishida, T.<sup>1</sup> 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:

<sup>1</sup>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.)

Inspec controlled terms: artificial intelligence

Uncontrolled terms: artificial intelligence research - second half century - prominent contributions - knowledge-based system - large scale search - language speech image

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Record 5 from Inspec for: ((Artificial Intelligence) WN All fields), 1884-2018



Search term color

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&lt; Back to results

Full text

[Abstract](#)[Detailed](#) **Artificial intelligence research**Nishida, T.<sup>1</sup>

Source: *Journal of Information Processing in Japanese*; ISSN: 0021-7298; DOI: 10.1007/s10237-018-0001-1  
Corp., Japan

Author affiliation : <sup>1</sup> Grad. Sch. of Inf.,

Abstract: **Artificial intelligence** research is proceeding to the second stage. In the second stage, I first overview the flow of prominent contributions were a large scale processing, planning, machine learning. Then, I argue that our future target should be designing communicative **intelligence** society and computational **intelligence**.

Inspec controlled terms: **artificial intelligence**Uncontrolled terms: **artificial intelligence**, **knowledge-based system** - **large scale learning** - **data mining** - **human society**Classification code: **C1230** Artificial intelligence

Treatment: Theoretical or Mathematical (Theory)

Database: Inspec

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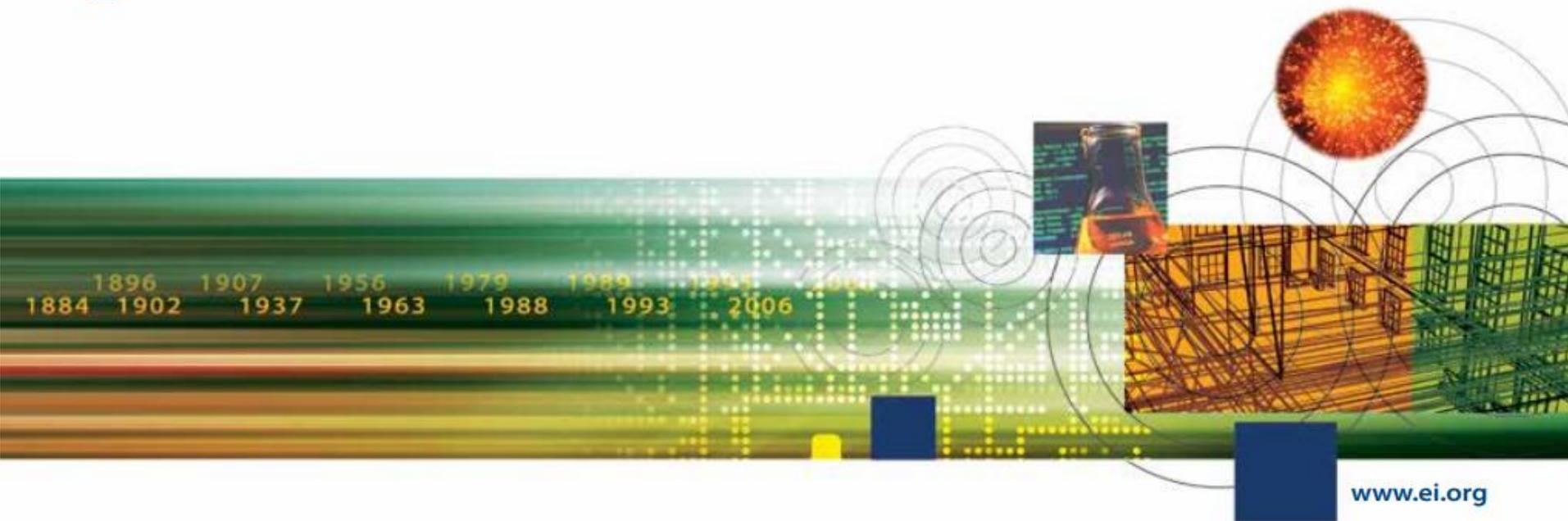
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    - 每個資料夾可儲存100筆記錄
  - 修改個人帳號資訊



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✕ ((waste water) WN ALL) 	< ((waste water) WN ALL) > More details ▾	<input checked="" type="checkbox"/> Alert	<input type="checkbox"/> Off
✕ ((((((plasticizers) WN CF)) AND ... 	< ((((((plasticizers) WN CF)) AND (wave)) NOT (shear))) > More details ▾	<input type="checkbox"/> Saved	<input type="checkbox"/> Off
✕ (electromagnetic wave absorptio ... 	< ((electromagnetic wave absorption) WN KY) > More details ▾	<input type="checkbox"/> Saved	<input type="checkbox"/> Off
✕ ((((((("Artificial Intelligence" ... 	< ((((((("Artificial Intelligence") WN KY)) AND ({taiwan} WN CO)) AND ({ca} WN DT)) AND ({springer verlag} WN PN))) > More details ▾	<input type="checkbox"/> Saved	<input type="checkbox"/> Off
✕ (((({Air pollution} WN CV) OR ... 	< (((({Air pollution} WN CV) OR ({Atmospheric composition} WN CV))) > More details ▾	<input type="checkbox"/> Saved	<input type="checkbox"/> Off
✕ (((({Atmospheric composition} W ... 	< (((({Atmospheric composition} WN CV) OR ({Air pollution} WN CV))) > More details ▾	<input type="checkbox"/> Saved	<input type="checkbox"/> Off

JH James Huang  
james@sris.com.tw

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可重新執行檢索策略

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Name	View	Delete
20161025_graphene	28 records	

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Folder Name : 20161025\_graphene

28 saved records in this folder

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- System and Method of Geocryology in Engineering Geology**  
**Zhang Ze** (State Key Lab. of Frozen Soil Eng., Cold & Arid Regions Environ. & Eng. Res. Inst., Lanzhou, China); **Ma Wei; Zhang Zhonggiong**  
 Source: *Earth Science - Journal of China University of Geosciences*, v 41, n 2, p 351-9, Feb. 2016 Language: Chinese  
 Database: Inspec  
[Full text](#)
- Self-generated clouds of micron-sized particles as a promising way of a Solar Probe shielding from intense thermal radiation of the Sun**  
**Dombrovsky, Leonid A.** (Joint Institute for High Temperatures, NCHMT, Moscow; 111116, Russia); **Reviznikov, Dmitry L.; Kryukov, Alexei P.; Levashov, Vladimir Yu**  
 Source: *Journal of Quantitative Spectroscopy and Radiative Transfer*, v 200, p 234-243, October 2017  
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[Full text](#)
- Validation of electromagnetic and hadronic physical processes in the interaction of a proton beam with matter: A Solar Particle Event Case Study with an Al slab**  
**Loffredo, Filomena** (Istituto Nazionale di Fisica Nucleare (INFN) Sez. Napoli, Italy); **Vardaci, Emanuele; Quarto, Maria; Roca, Vincenzo; Pugliese, Mariagiabriella**  
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for *e.g. (artificial intelligence OR intelligent comp...*

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- |                                     |   |                                       |                                       |   |                                 |                                     |
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| <input type="checkbox"/> Chimica    | <input type="checkbox"/> CBNB                 | <input type="checkbox"/> EnCompassLIT | <input type="checkbox"/> EnCompassPAT | <input type="checkbox"/> GEOBASE        | <input type="checkbox"/> GeoRef |                                     |
| <input type="checkbox"/> US Patents | <input type="checkbox"/> EP Patents           | <input type="checkbox"/> Knovel       |                                       |   |                                 |                                     |

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  - <http://www.stpi.org.tw/fdb/ei/index.html>

# 實作大挑戰(1)

陳科宏博士 為我校電機工程學系教授，其研究專長VLSI、低功率電路設計，混合訊號電路設計、電源管理IC設計等等。

試著利用EV資料庫，透過Author Search找尋陳教授所著之文章，總共有幾篇呢？

## 實作大挑戰(2)

透過 **Affiliation Search** 查詢 **交通大學** 被 **EV** 所收錄之文章，在檢索結果中，以何 **控制詞彙 (Controlled vocabulary)** 之研究文章最多呢？