Engineering Village

深入工程研究的首選工具

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產品經理, Engineering Village Content
2019年5月

大綱

- 科研論文的發表

- 期刊/會議論文集評選標準

- 策展與重評估項目

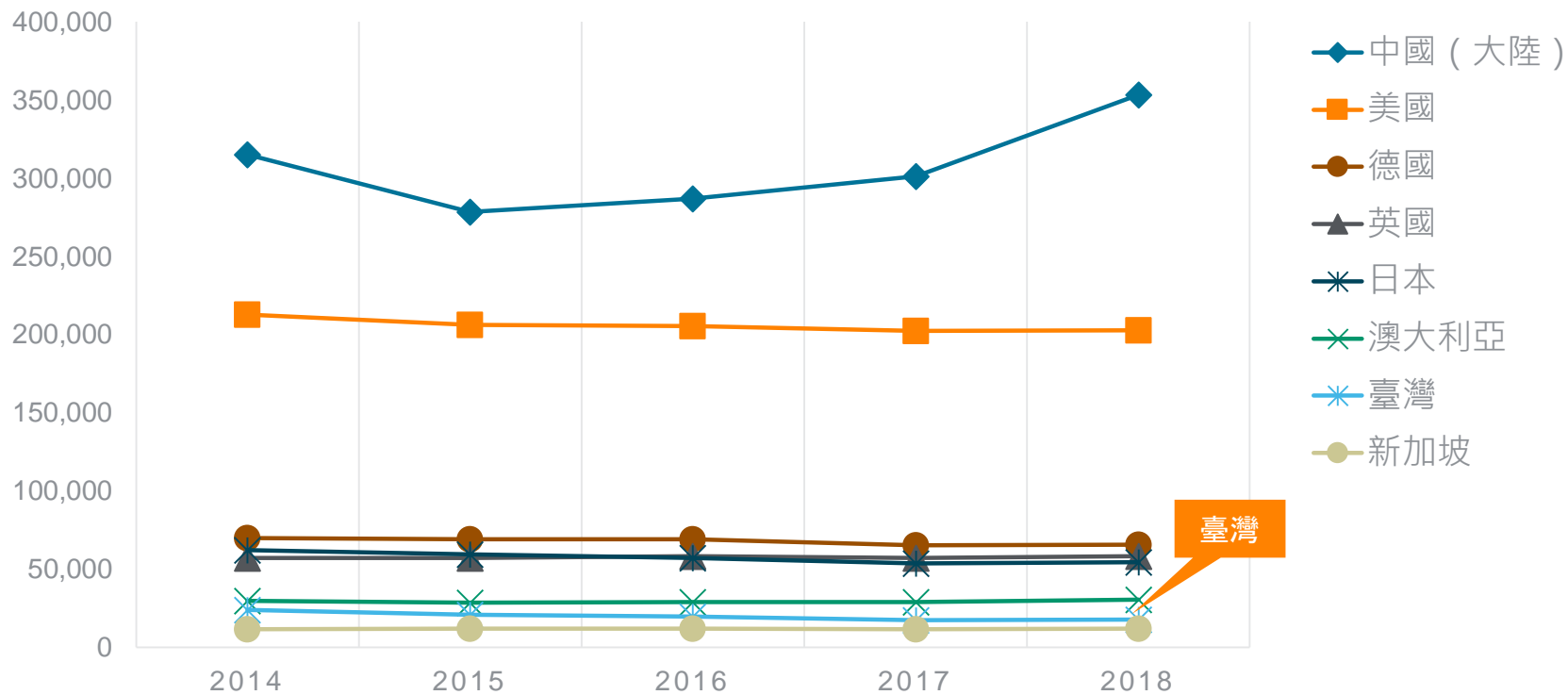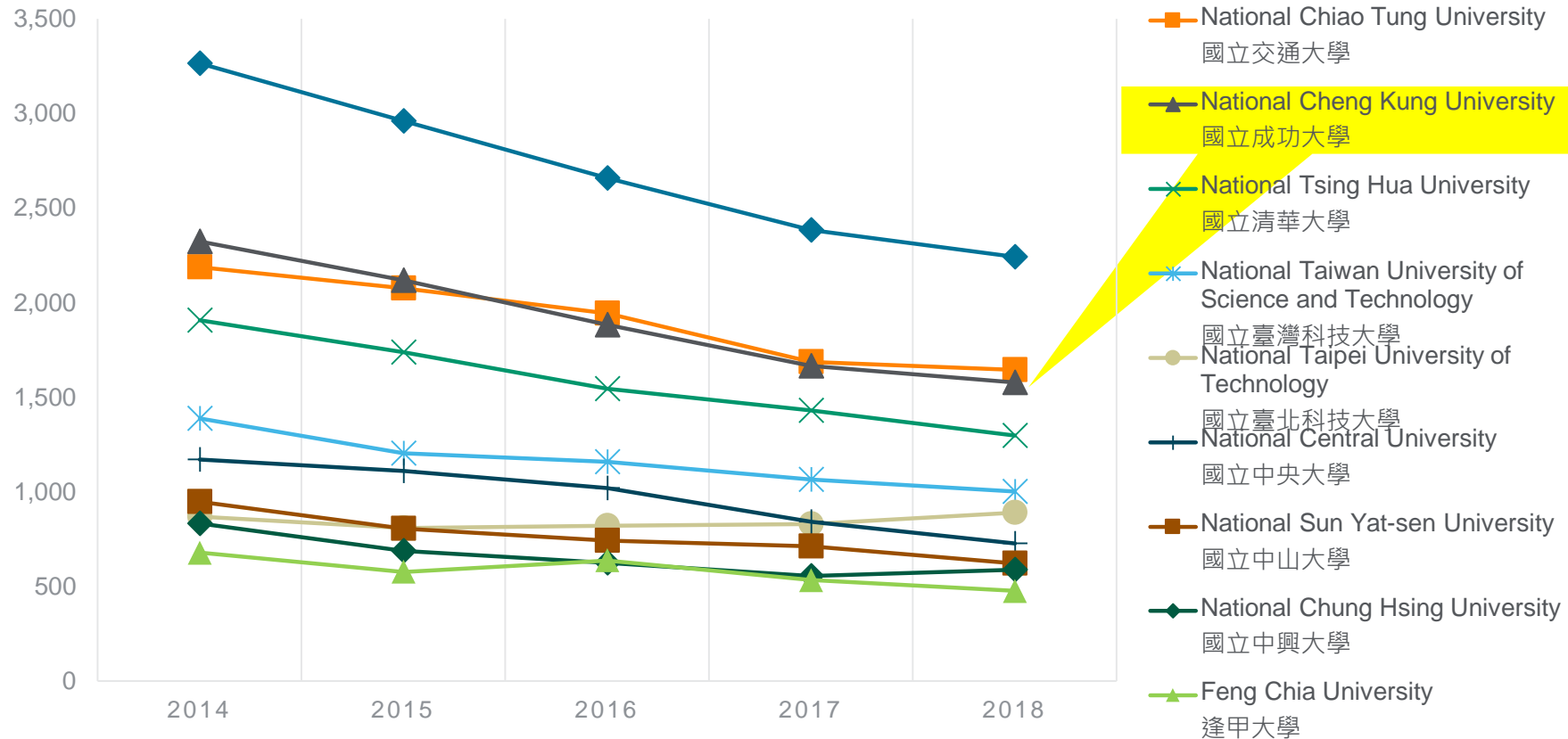- 致作者/研究工作者的建議

- Engineering Village近期更新

- 提問

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科研論文的作用

- 註冊
  - 官方標註是誰最先提交了科研結果的時間戳
- 認證
  - 執行同行評審以確保所提交成果的有效性和完整性
- 推廣
  - 提供共享發現與成果的介質
- 保存
  - 為後代保存科研記錄

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臺灣與其他國家在過去5年國際工程研究領域論文的發表情況

來源：Compendex

臺灣高校在過去5年內發表國際工程研究領域論文情況

- National Taiwan University 國立臺灣大學
- National Chiao Tung University 國立交通大學
- National Cheng Kung University 國立成功大學
- National Tsing Hua University 國立清華大學
- National Taiwan University of Science and Technology 國立臺灣科技大學
- National Taipei University of Technology 國立臺北科技大學
- National Central University 國立中央大學
- National Sun Yat-sen University 國立中山大學
- National Chung Hsing University 國立中興大學
- Feng Chia University 逢甲大學

來源：Compendex

掠奪性期刊以及出版舞弊行為

| Predatory Journals

Commercial Academic Publishing Preying on Taiwan

Source: Kuo-Tai Liu

A CommonWealth Magazine investigation has found that many Taiwanese academics are publishing articles in dubious "predatory journals" in relatively high numbers. What is going on and how is it affecting the country's academic community?

Fig. 3 The development of predatory open access article volumes from 2010 to 2014

來源:
https://english.cw.com.tw/article/article.action?id=2346
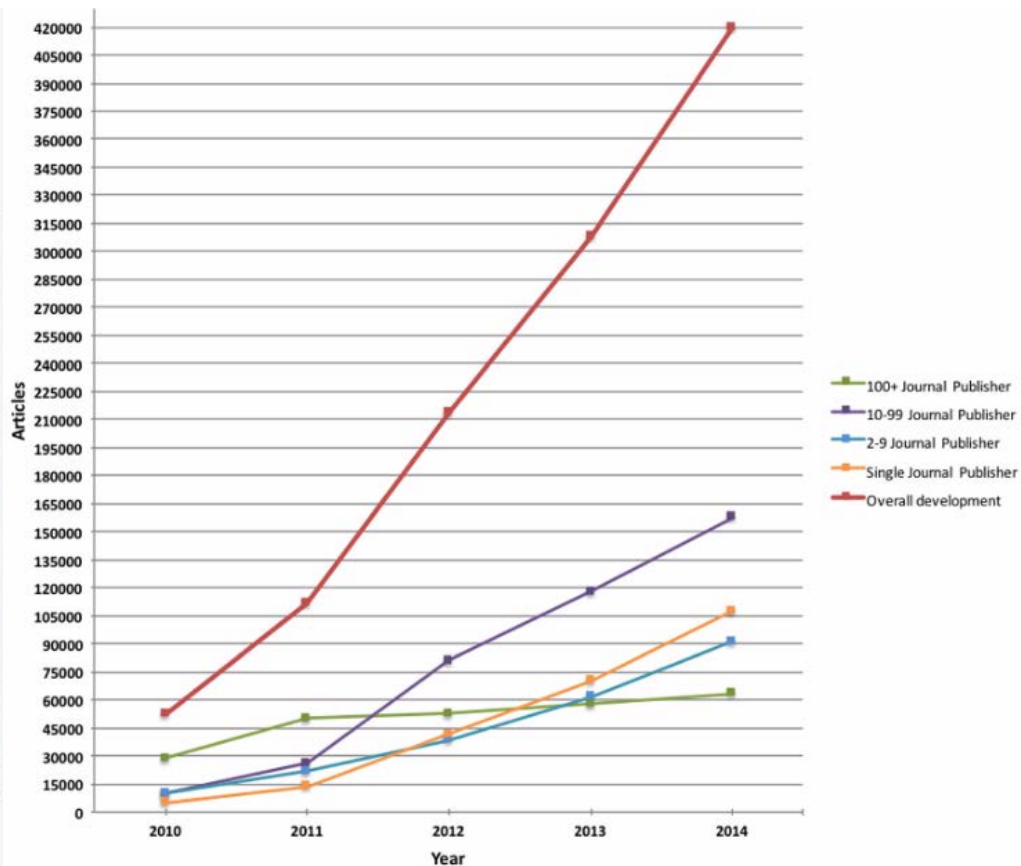https://www.insidehighered.com/news/2015/10/01/study-finds-huge-increase-articles-published-predatory-journals

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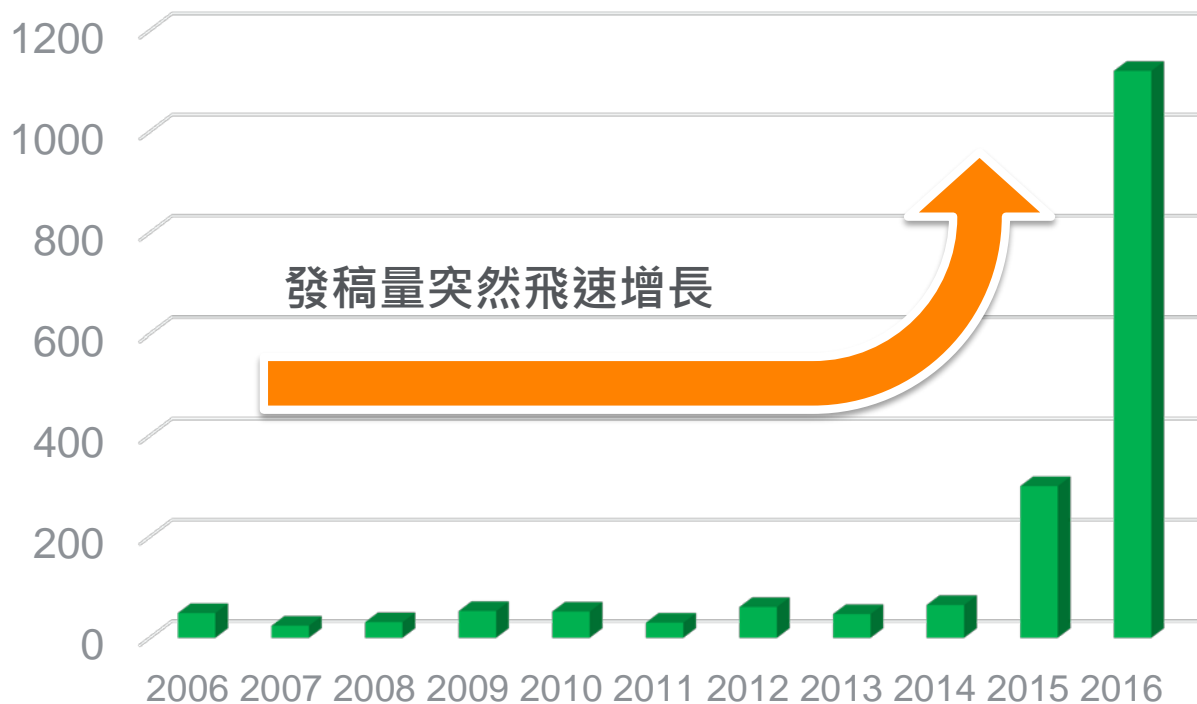為了保護科研界利益免受侵害，如果發現期刊或會議論文集涉及舞弊行為，Ei將取消對相關期刊的**收錄**。

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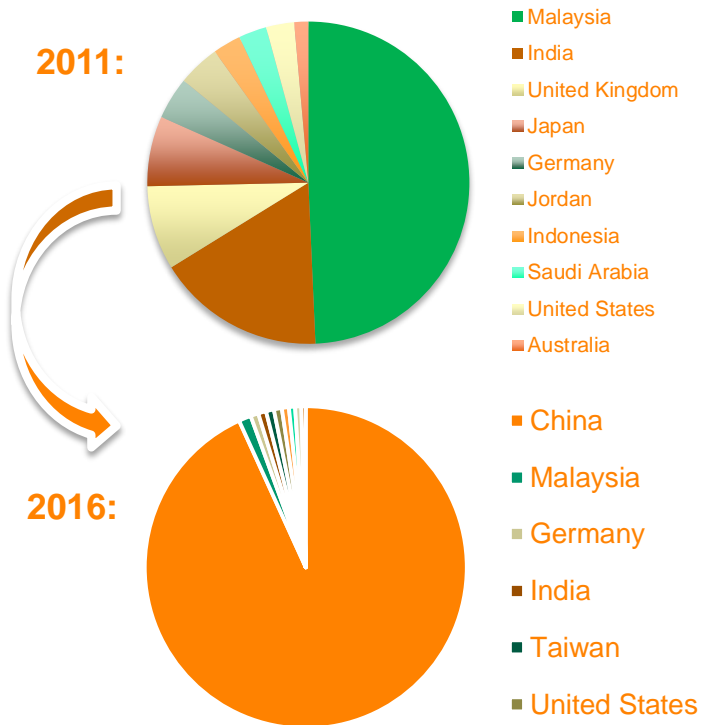
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例：在以橡膠、纖維、塑料為主題的德語期刊上發表的1000多篇無關論文

A specialized German journal, published monthly, covering topics about rubber, fibres, and plastics. It reaches more than 10,000 readers worldwide – professionals and interested persons looking for competent information in these areas.

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- **Research on English Teaching Mode Based on Cultural Fusion under Network Cloud Technology (**基於文化融合網絡雲技術的英語教學模式研究**)**
- **Discussion on Innovation and Reform of Enterprise Management Information System (**企業管理信息系統創新與改革探討**)**

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- **College Volleyball Special Class Research Which is Commonly Used in Sports Practice Modes of Load Ball (**常用於負荷球運動練習模式的大學排球專項研究**)**

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例：通过评选被收録的出版物

例1：*IEEE Transactions on Pattern Analysis and Machine Intelligence (ISSN: 0162-8828)*

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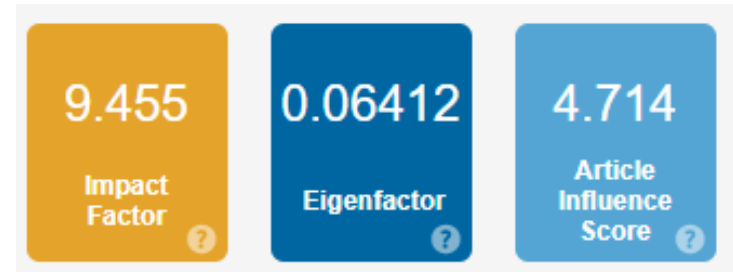
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Image Super-Resolution Using Deep Convolutional Networks

4 Author(s)   Chao Dong ; Chen Change Loy ; Kaiming He ; Xiaoou Tang   **View All Authors**

Abstract

Document Sections

1 Introduction

2 Related Work

3 Convolutional Neural Networks for Super-Resolution

4 Experiments

5 Conclusion

Authors

Figures

References

Citations

Abstract:
We propose a deep learning method for single image super-resolution (SR). Our method directly learns an end-to-end mapping between the low/high-resolution images. The mapping is represented as a deep convolutional neural network (CNN) that takes the low-resolution image as the input and outputs the high-resolution one. We further show that traditional sparse-coding-based SR methods can also be viewed as a deep convolutional network. But unlike traditional methods that handle each component separately, our method jointly optimizes all layers. Our deep CNN has a lightweight structure, yet demonstrates state-of-the-art restoration quality, and achieves fast speed for practical on-line usage. We explore different network structures and parameter settings to achieve trade-offs between performance and speed. Moreover, we extend our network to cope with three color channels simultaneously, and show better overall reconstruction quality.

例2：

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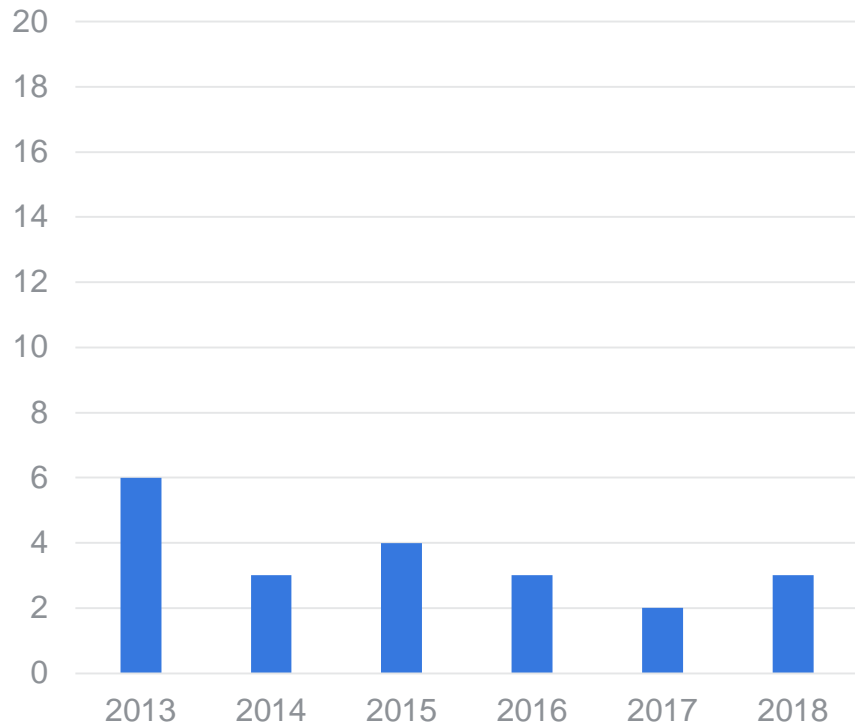
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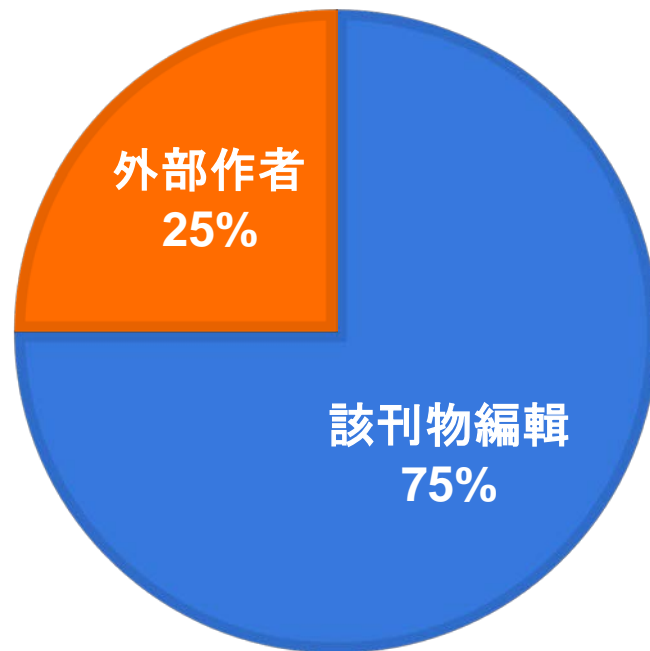
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這些"同行評審"過的會議文章與會議的宗旨/範圍相符嗎？所述會議宗旨/範圍有說服力嗎？

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- Traffic States Detection based on Block Matching (基於塊匹配的流量狀態檢測)
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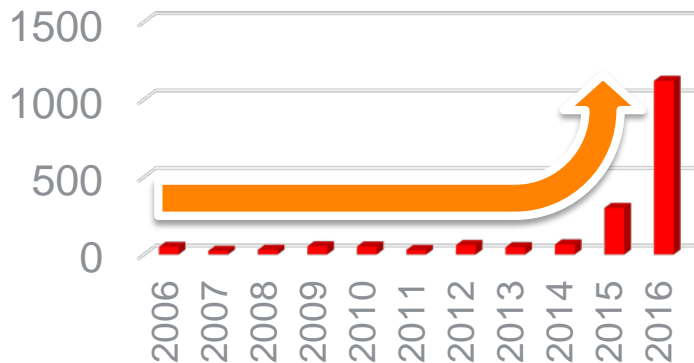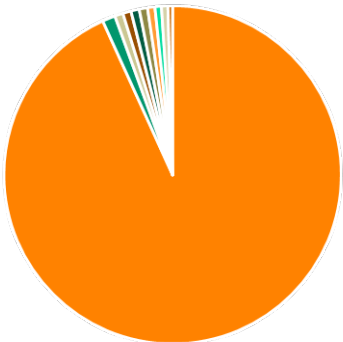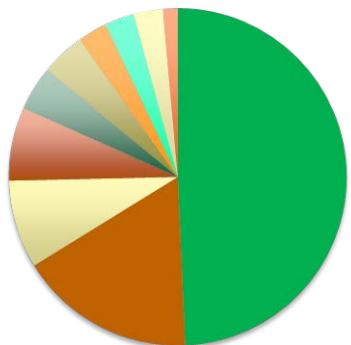
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A Massive Case Of Fraud
Chemical & Engineering News
February 18, 2008

Journal editors are left reeling as publishers move to rid their archives of scientist's falsified research

William G. Schulz

A CHEMIST IN INDIA has been found guilty of plagiarizing and/or falsifying more than 70 research papers published in a wide variety of Western scientific journals between 2004 and 2007, according to documents from his university, copies of which were obtained by C&EN. Some journal editors left reeling by the incident say it is one of the most spectacular and outrageous cases of scientific fraud they have ever seen. …

The Futile Cycle
A Wandering Through Life and Science

FEBRUARY 3, 2008
The First Casualty
Posted by Eric at 3:31 pm | Category: Academia, Links, News

In the first major casualty of the etBLAST algorithm and Deja Vu database has been found at Harvard Medical School, where Prof. Lee Simon's review paper has been found to have large sections copied from another professor's paper.

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需要避免的最嚴重問題

以下是科研**界所**面臨的三種最為常見的道德不端行為：

1. **造假**
   編造研究數據

2. **篡改**
   改寫已有的研究數據

3. **剽竊**
   將以往的其他成果假裝為自己的

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致作者的建議

請 ...

- 要符合期刊的宗旨和範圍以及編輯方針

- 要有道德地進行研究

- 要堅持遵從出版倫理指南

- 要有選擇性地決定在哪裏發表以及與誰發表

- 要警惕不切實際的快速審稿及不透明的審稿結果

- 要在接受您論文的會議上進行演講

請不要...

- 不要理会聲稱與Ei或愛思唯爾有合作關系并保證論文被Compendex收錄的出版代理商或經紀商

- 不要剽竊

- 不要向期刊和/或會議壹稿多投

- 不要向假會議提交論文

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請留意我們的選擇標準

致編輯/出版商的建議

請 …

- 要保證可信且透明的同行評審流程並包含對撤稿有明確的方針
- 要只發表與期刊宗旨和範圍相符的論文
- 要遵從得到認可的倫理指南
- 出版倫理聲明必須要能從期刊主頁訪問
- 要對采納的論文很有選擇性、並保證所發表的內容適合於國際讀者群

請不要…

- 不要與國內或其他地方的出版代理商或經紀商合作，尤其是當他們聲稱與愛思唯爾有合作時－他們並沒有！
- 不要使用或宣傳具有誤導性的指標
- 不要隱藏出版商/編輯的聯系方式或使用通用域名電子郵箱
- **不要收取隱藏費用或含糊期刊出版或商業行為**

請留意我們的評選標準

THINK

準備提交研究成果的目標刊物是否可信？
該刊物是否適合發表自己的工作？

CHECK

用清單來評估該刊物

SUBMIT

只有當能對我們的清單上的問題回答"是"的
時候，提交論文稿

來源： **http://thinkchecksubmit.org/**

SUBMIT

If you can answer 'yes' to most or all of the questions on the list.

Complete the check list and submit your article only if you are happy you can answer 'yes' to most or all of the questions.

- You need to be confident your chosen journal will have a suitable profile among your peers to enhance your reputation and your chance of gaining citations.

- Publishing in the right journal for your research will raise your professional profile, and help you progress in your career.

- Your paper should be indexed or archived and be easily discoverable.

- You should expect a professional publishing experience where your work is reviewed and edited.

- Only then should you submit your article.
  – Have you heard of the editorial board members?
  – Do the editorial board mention the journal on their own websites?

- Is the publisher a member of a recognized industry initiative?
  – Do they belong to the Committee on Publication Ethics (COPE)?
  – If the journal is open access, is it listed in the Directory of Open Access Journals (DOAJ)?
  – If the journal is open access, does the publisher belong to the Open Access Scholarly Publishers' Association (OASPA)?
  – Is the publisher a member of another trade association?

議標準的會議

完成檢查表並僅在能夠對所有或者大部分問題回答"是"的情況下參會或提交論文摘要。
•參與合適的會議能夠有機會保持得知自己領域的最新進展和成果。
•參與合適的會議對自己的職業生涯有益並且能擴展自己學會界的人脈。
•通過具有同行評審、編輯專業出版社發表自己的會議論文得到索引並使之容易被發現的經驗有助於增加自身聲譽並有機會獲得更多引用。
•只有這些情況下請參會並演講自身的研究成果。
•是否確認」會議主見：是否以合適的方法介紹了所有信息（如參會費、截止日期、會議日期、編委會、議程細節以及會場）？
•有沒有曾經讀過該會議論文集的論文？

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來源：**https://thinkcheckattend.org**

更多資料請訪問

researcheracademy.com
elsevier.com/authors
elsevier.com/reviewers
elsevier.com/editors

Understanding the Publishing Process with Elsevier – complete guide

Publishing Ethics brochure – top reasons to publish ethically

Get Published – top tips on writing, reviewing and grant writing etc.

Get Noticed – new ways to promote your article and research

Open access – definitions and options

Career Planning Guide – download in 12 languages

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2018 CODiE Award Winner
—Best Content, Search, Discovery & Analytics Solution
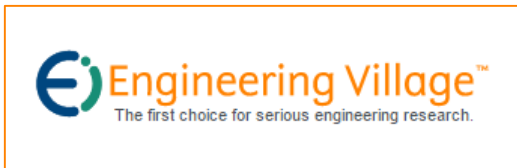
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100% 使用
(*US News & World Report*)

Compendex
Ei Backfile
Inspec
Inspec Archive

GEOBASE
GeoRef

Chimica
CBNB

EnCompassLIT
EnCompassPAT

PaperChem

NTIS

USPTO
EPO
WIPO
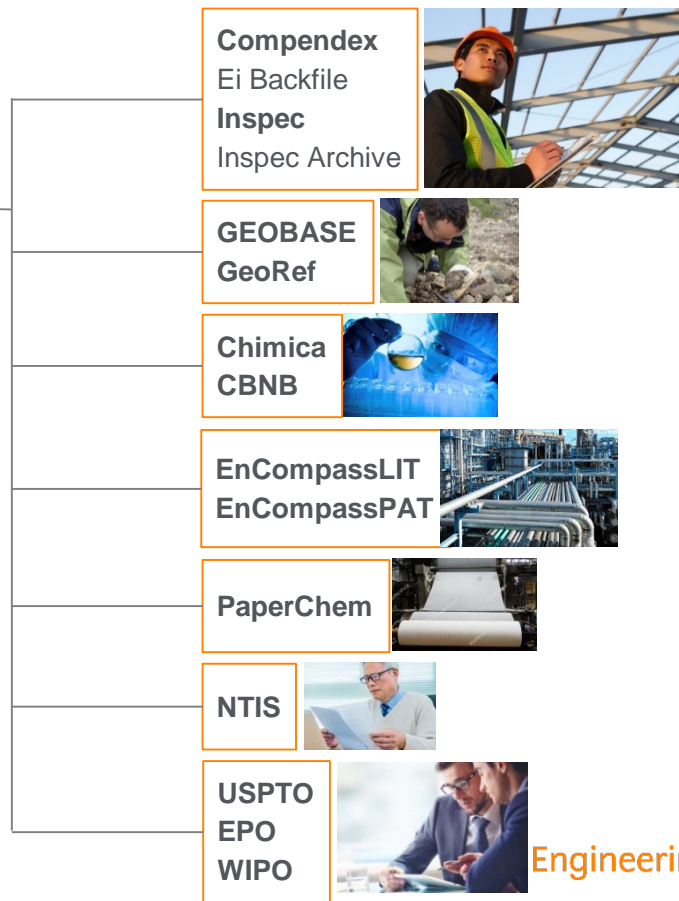
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Ei及Engineering Village 的裏程碑

Ei 與 Engineering Village 是已確立聲譽的品牌

長達135年的工程文獻索引歷史

1884
Engineering Index (Ei) ("Index Notes") founded

1887
Eiffel Tower Built

1919
Formula discovered for the chlorination of urban water

1954
1M Records in Engineering Index

1957 First satellite launched in space

1970
Compendex Launched

1977
Trans-Alaska Pipeline System completed

1991
World Wide Web became available to the public

1995
Engineering Village (EV) Launched

1998
Elsevier buys Ei

1998
First MP3 Player

2003
Ei Backfile Digitized (1884–1969)

2004 Exploration Rover became active on Mars

2008
First beam circulated Large Hadron Collider (CERN)

2009
Ei's 125th Anniversary

2013
Compendex at >16M Records

2015
Dissertations Added

2017
Books & Standards Added

2019

Compendex 已收錄超過2,560萬條文獻記錄

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Compendex
世界上涵蓋面最廣最完整的工程文獻數據庫

~2,560萬条文獻記錄(1884年至今)
并正在持续增长

>178萬条記錄
来自Ei Backfile

每年增加
1,300萬条記錄

1884年至1969年

1970年至今

通過DOIs實現全文鏈接
涵蓋190个工程相關領域
來自78 個國家的2,291個出版社

學術期刊

Compendex

NEW

NEW

行業刊物

會議論文集

NEW

博士畢業論文
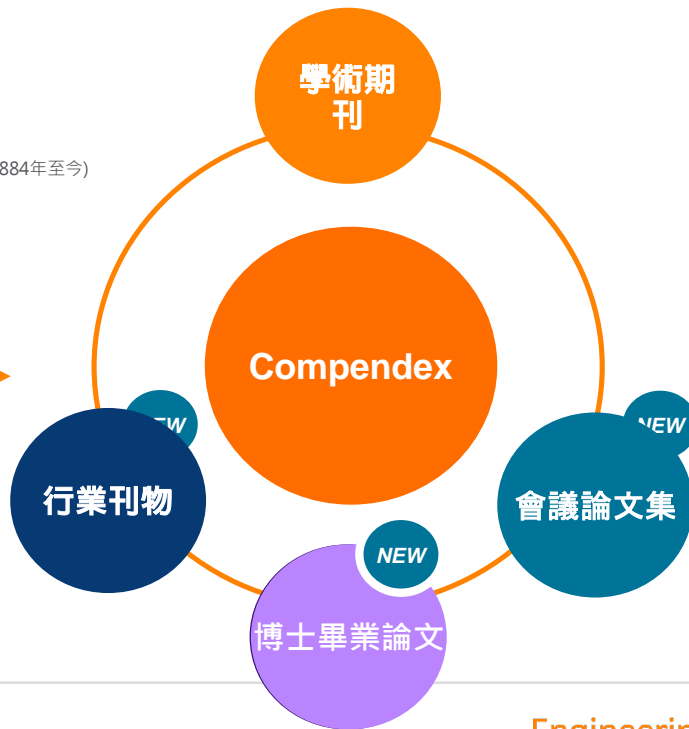
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涵蓋多樣化的內容

Artificial Intelligence (人工智能)
Intelligence demonstrated by machines

Neural Networks (神經網絡)
Computing systems inspired by biological neural networks

Industry 4.0 (工業4.0)
The current trend of automation and data exchange in manufacturing technologies

Corrosion (腐蝕)
The gradual destruction of materials by chemical and/or electrochemical reaction with their environment

Biomechanics (生物力學)
The study of the structure and function of the mechanical aspects of biological systems using the methods of mechanics

3D Printing (3D打印)
Creation of a three-dimensional object by joining/solidifying materials under computer control

Optical Waveguides (光波導)
The key elements of photonic devices to process optical signals.

Steel (鋼鐵)
A major component used in buildings, infrastructure, tools, ships, automobiles, machines, appliances, and weapons.

Secondary Batteries (二級電池)
A type of electrical battery which can be recharged many times after use

Nanotechnology (納米技術)
Molecular motors: nature's nanomachines

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Compendex收錄行業標準

添加了來自世界上最受認可的標準制定組織的重要行業技術標準，幫助學生、研究工作者、工程師們查找、發現所需的資料

質量
+
多樣性
+
相關性
=
為更好的查詢結果
提供更為全面的內容

以及更多

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Compendex收錄書籍

收錄內容更多樣化

更多來自工程領**域**領先出版商的**重要工程相**关書籍、
書籍章節，**拓寬了**寶貴的**工程內容廣**度。

質量
+
多樣性
+
相關性
=
為更好的查詢結果
提供更為全面的內容

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數值數據索引

索引的 化

問題:

在科研文獻中，數值數據有多種多樣的書寫方式，使得搜索數值數據往往難以得到全面的結果

我們的解決方法：

通過數值數據索引標準化數值數據

優點 ：

搜索數值或範圍時能夠獲得最全面的結果

- Compendex索引了62種不同物理化學性質
- 能在Compendex和Inspec數據庫中交叉搜索超過六百五十萬條記錄
- 460,000多種數值數據的書寫均得到匹配、轉換並標準化
- 簡便的搜索篩選器讓用戶利用科研單位搜索壹定數值範圍

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作者/機構檢索（**Beta測試中**）

用戶的問題： 由於作者的名字有表述差異，難以找全特定作者/機構所發表的文獻

我們的方案: 用戶們現在可以在Engineering Village的Compendex中利用經過標準化/消歧處理的作者、機構記錄查詢作者和機構信息。

實現的價值: 能夠更精確、更快獲取Compendex中的作者和機構信息

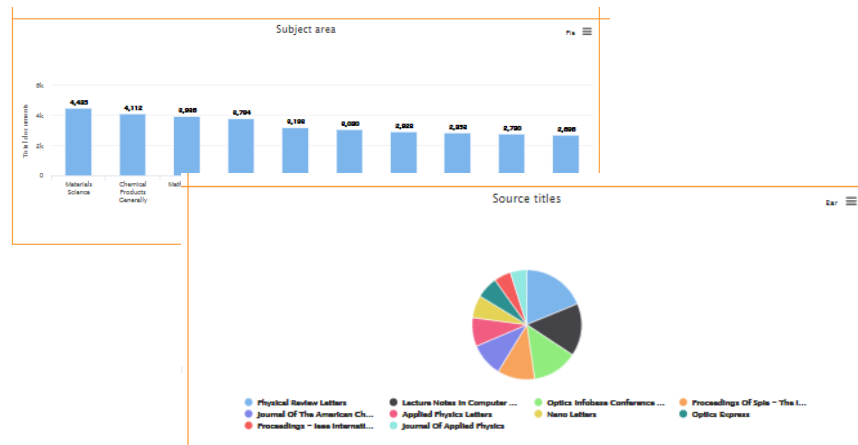Engineering Village™

Engineering School Profile
工程學校概述報告

界面的更新

Compendex的工程學校概述報告

工程學院院長，系主任和圖書館員往往需要通過跟踪新出版物，作者及主題趨勢來管理和分析工程學院的研究成果。然而，以往找到全面的數據不容易，創建匯總機構研究活動的報告很費時。

Engineering Village為Compendex客戶創建了**新的功能，幫助**總結了特定工程學院的研究成果。根據出版物、作者和主題趨勢分析和**追** 研究績效；

• **与**競爭工程學校**比**較；

• 生成有關研究活動的概述報告

Engineering school profile

National Cheng Kung University ☆

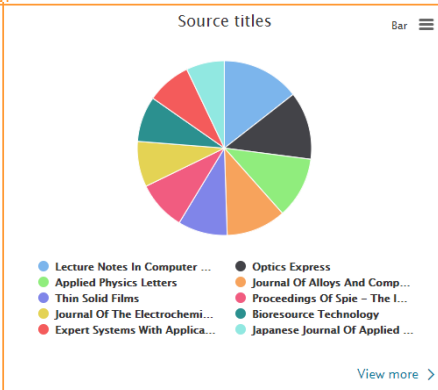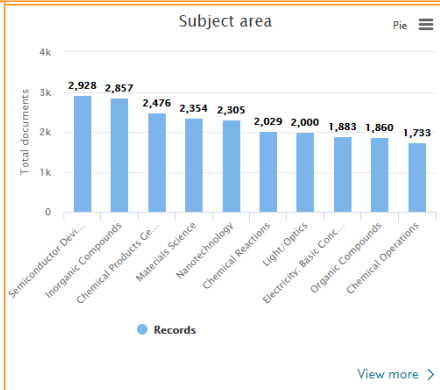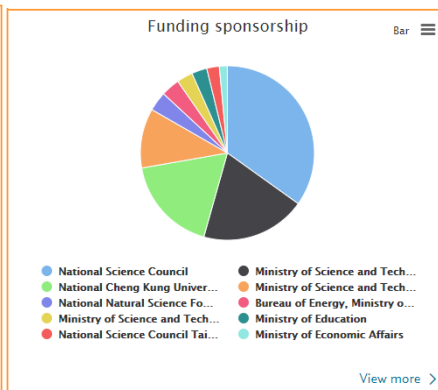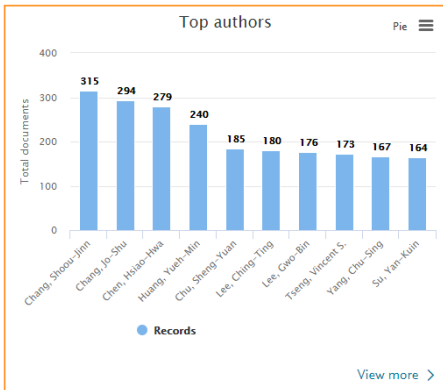**23,470 records** in Compendex

Filter by: 2009 to 2020 AND Select subject Area

Reset filters

Top authors
Pie

Author	Total documents
Chang, Shoou-Jinn	315
Chang, Jo-Shu	294
Chen, Hsiao-Hwa	279
Huang, Yueh-Min	240
Chu, Sheng-Yuan	185
Lee, Ching-Ting	180
Lee, Gwo-Bin	176
Tseng, Vincent S.	173
Yang, Chu-Sing	167
Su, Yan-Kuin	164

● Records

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Research focus
Bar

● Ii–Vi Semiconductors
● Iii–V Semiconductors
● Efficiency
● Substrates
● Temperature
● Zinc Oxide
● Thin Films
● X Ray Diffraction
● Light Emitting Diodes
● Scanning Electron Microsco...

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Funding sponsorship
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● National Science Council
● National Cheng Kung Univer...
● National Natural Science Fo...
● Ministry of Science and Tech...
● National Science Council Tai...
● Ministry of Science and Tech...
● Ministry of Science and Tech...
● Bureau of Energy, Ministry o...
● Ministry of Education
● Ministry of Economic Affairs

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Publishing trend
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Year	Total documents
2010	2,740
2011	2,906
2012	2,538
2013	2,615
2014	2,327
2015	2,125
2016	1,892
2017	1,672
2018	1,560
2019	296

● Records

Subject area
Pie

Subject	Total documents
Semiconductor Devi...	2,928
Inorganic Compounds	2,857
Chemical Products Ge...	2,476
Materials Science	2,354
Nanotechnology	2,305
Chemical Reactions	2,029
Light; Optics	2,000
Electricity; Basic Conc...	1,883
Organic Compounds	1,860
Chemical Operations	1,733

● Records

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Source titles
Bar

● Lecture Notes In Computer ...
● Applied Physics Letters
● Thin Solid Films
● Journal Of The Electrochemi...
● Expert Systems With Applica...
● Optics Express
● Journal Of Alloys And Comp...
● Proceedings Of Spie – The I...
● Bioresource Technology
● Japanese Journal Of Applied ...

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找到所需的			避免不想要的		
確定研究的獨特性	產生想法	保持與時俱進	不可靠的質量，準確性，可信性	內容的遺失	重複工作
了解新的學科領域	找到同行和合作者	追踪競爭工作	讀到不相關的內容	在多個系統中重複搜索	

以最少的時間和勞力取得最大的成果