

Elsevier Research Intelligence

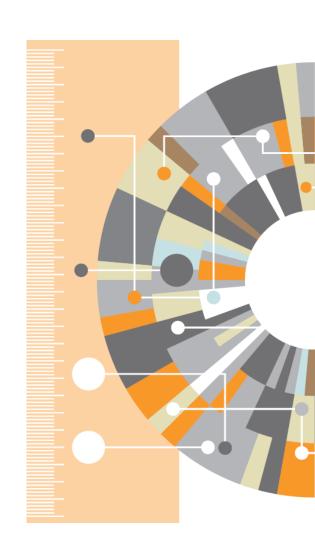
學術研究表現: 從國際合著談起

Elsevier 研究管理解決方案經理 何蕙菩(Rita) r.ho@elsevier.com



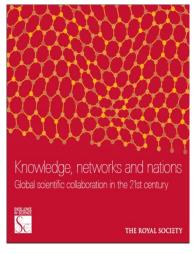
内容大綱

- 國際合作的現象:報告分析
- 專家網絡,啟動合作
- 從研究管理角度定位合著對象
- 評估合著產出



Elsevier協助國家及大學進行研究評估及管理分析

英國皇家學會 全球科研合作報告 2011



英國科學研究國際表現報告 BIS report 2011, 2013





美國29所研究大學聯盟 2012

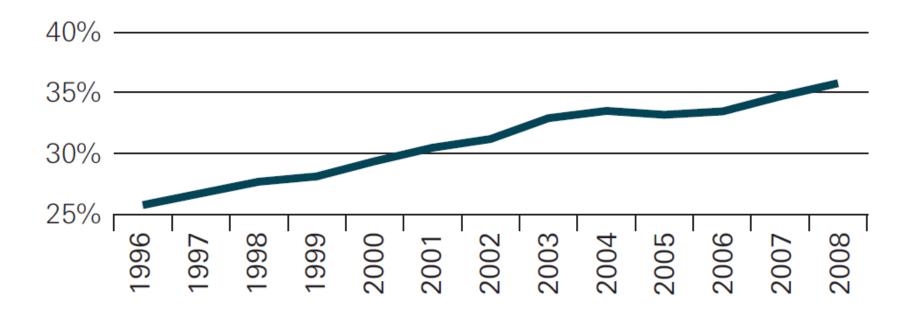




雪球指標 2012 **Snowball Metrics**

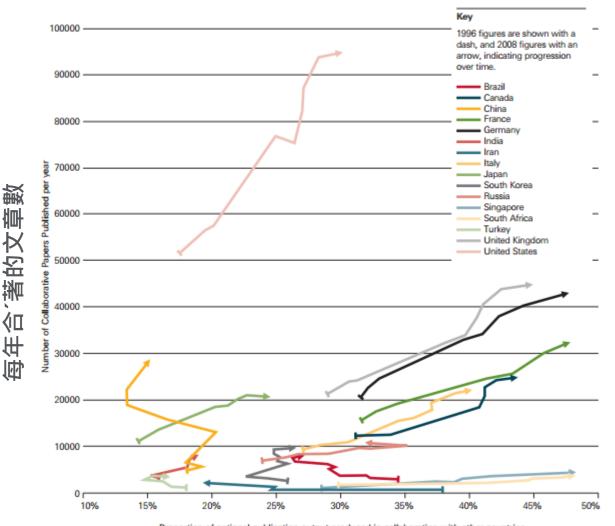
與研究型大學(劍橋、牛津、萊登大學等)共同開發指標,協助 大學進行研究管理策略規劃,如領域權重引用影響係數(FWCI) 產學合作、國際合作指標等

全球科研國際合作逐年增加



Proportion of the world's papers produced with more than one international author

英國皇家學會: 國際科研合作趨勢圖1996-2008



在美英日德等已開 發國家在過去十年 中,跨國合作的比 例也逐年提高

中巴印等新進國家 則是跨國合作增加 不明顯,甚至有停 滯現象

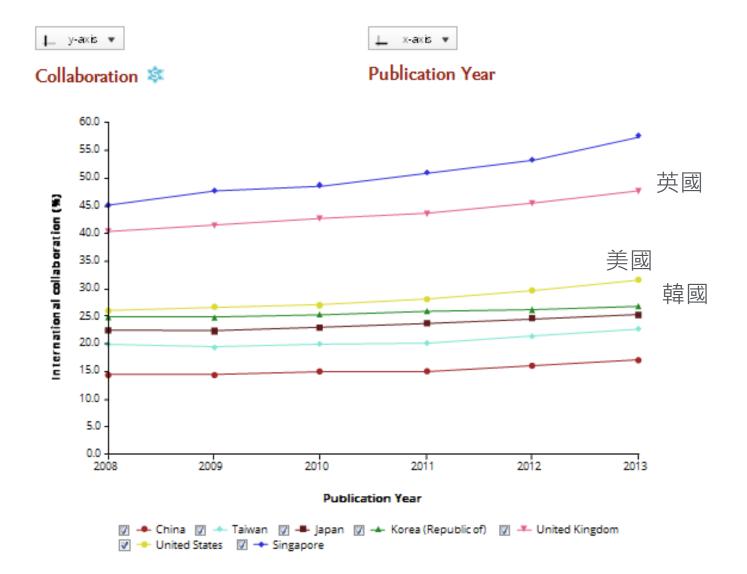
這樣的差距,反映 了該國家的研究強 度、研究資源的取 得程度、及研究社 群的規模

Proportion of national publication output produced in collaboration with other countries

國際合作所佔的比例

Knowledge, networks and nations: Global scientific collaboration in the 21st century, The Royal Society, 2011

近五年(2008-2013)各國國際合作比較



英國研究者具高度的國際合作,且引用影響力較高

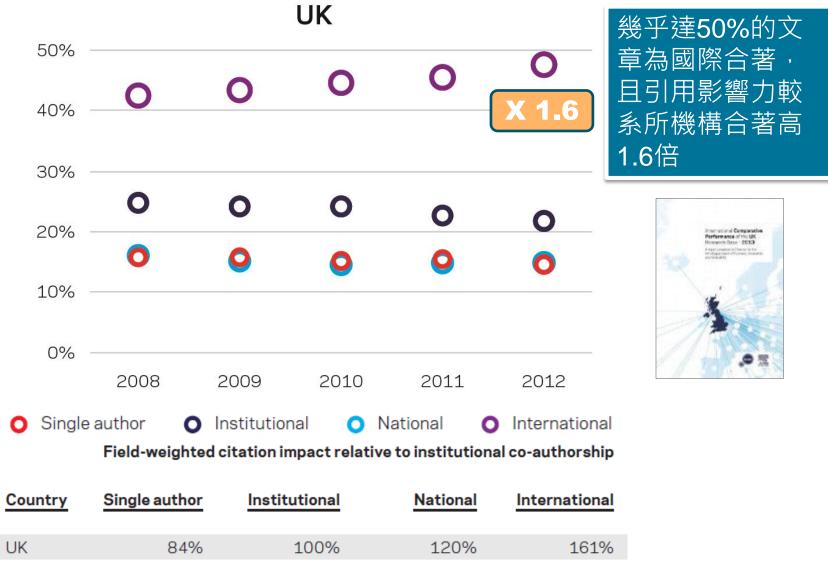


Figure 5.1 — Share of articles for the UK by co-authorship type, 2008-2012. Bubble size is proportional to field-weighted citation impact. Table 5.1 — Field-weighted citation impact of single-authored, nationally- and internationally- co-authored articles relative to institutional coauthorship for the UK and comparators, 2012.

許多全球性的議題透過國際合作來找適合的夥伴

"The number one reason is always to find the best partners to work with, and international collaboration gives us access to a wider set than is available in the UK alone. There are a number of global challenges sustainability for example, poverty, energy, security - where the issues go more widely than in UK-specific programmes, so your natural peers will be international."

Professor Luke Georghiou, Vice-President for Research and Innovation at the University of Manchester and Professor of Science and Technology Policy and Management in the Manchester Institute of Innovation Research at Manchester Business School

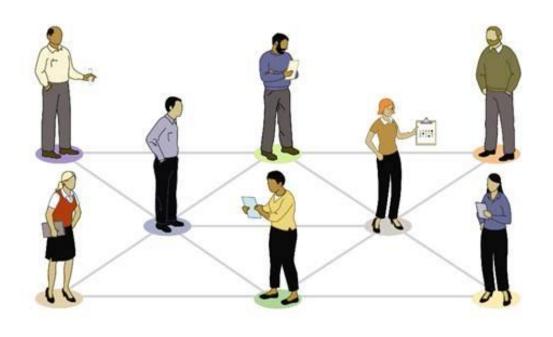


學術網絡的重要性

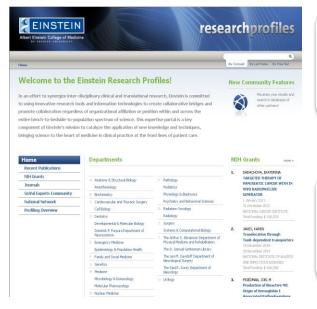


SciVal Experts 確認專家及啟動合作

- 機構典藏"國際化"
- 建置專家庫
- 將研究者串連(內部及外部)



Albert Einstein 醫學院: Expert網站增加合作交流及能見度



圖書館採用SciVal Experts做為科研文獻資 料服務的一部分

大約80%的流量來自於 搜尋引擎,比自行建置 的網站要高出許多

Teb 20, 2007 - Mar 25, 2007 90.821 val 519.575 4 90:01:48 as females PARKS 21,34% and 78.476 cm

http://www.einstein.vu.edu/rczone/

SciVal Experts Community Home **Recent Publications** With the latest release, we are tying together the community of organizations that are using SciVal Experts at their institution(s). In order to make each implementation more powerful, we have connected them all together through the SciVal Experts Community. When searching Recent Grants throughout the application you can switch from just the internal experts and data or from the entire community at any time. Please let us know what you think at usinfo@experts.scival.com. Recent Patents Most Frequent Journals Search the Community SciVal Experts Community DIRECT2Experts **Profiling Overview** By Concent Ry Last Name By Free Text

STANFORD SCHOOL OF MEDICINE SCHOOL OF MEDICINE







大約40%的點擊是來自於 美國以外的地方,也同樣 超出自行建置的網站

跟同類院校可以非常簡便 地串連網絡,以便進行更 深入的合作與交流

全球超過10萬研究人員的串連網絡,並在快速增長中

密西根大學的專家人才庫



可透過研究概念、文章片段 進行檢索

E.g. blood pressure Q By Concept By Last Name By Free Text Home

Welcome!

Michigan Experts is a searchable database of research expertise across disciplines from several schools/colleges or institutes at the University of Michigan. It has been developed to foster intramural and extramural collaborations, and interdisciplinary research to expand knowledge. While this tool is not comprehensive of all faculty members, nor exhaustive of individual productivity or expertise, it offers a rich representation of research talent and knowledge within the preeminent research enterprise at the University of Michigan. We invite you to search the database by concept, individual name, or "free text" excerpt (such as an abstract or RFA) to discover researchers, understand research expertise, and visualize connections among researchers.

Home Recent Publications Recent Grants Recent Patents Most Frequent Journals SciVal Experts Community DIRECT2Experts Profiling Overview

Organizations

Centers

- C Cancer Center
- I Institute for Healthcare Policy and Innovation
- 5 Samuel and Jean Frankel Cardiovascular Center

College of Engineering

A Aerospace Engineering

School of Dentistry

- A Academic Affairs
- B Biologic and Materials Science
- C Cariology, Restorative Sciences and Endodontics

Community Dentistry

D Dean's Office and Faculty Affairs Dental Hygiene

Training Resources



Office of Research

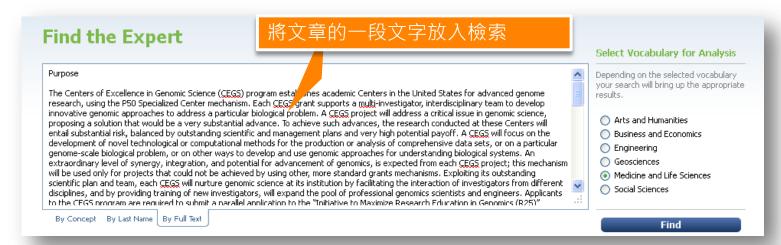
Recent Grants

more >

Dinesh Khanna 1.

ACT12339: Double-blind, randomized, 8-week placebocontrolled, and 16-week open label extension Study investigating the Safety, Pharmacokinetics and Pharmacodynamics of SAR100842 Given Orally to Patients with Diffuse Cutaneous Systemic Sclerosis 4/4/2044 0/20/2044

運用語意檢索比對適合的學者



50 Experts found Experts based on... **Publications** Grants Publications V Howard L Mcleod 43 391 UNC, Eshelman School of Pharmacy, Pharma... **Fingerprint** 202 201 Todd Robert Klaenhammer NCSU, College of Agriculture & Life Scie... Rating weight: Low Mid High Required James P Evans 56 31 0000 Genomics remove UNC, School of Medicine, Genetics Science 0 0 0 0remove Matthew Breen 104 Financing, Organized NCSU, College of Veterinary Medicine, Mo... 0 0 0 0remove Research 0 0 0 0 Ralph A Dean remove SciVal Experts NCSU, College of Agriculture & Life Scie... Research Personnel 0 0 0 0 remove Gary Churchill 運用Fingerprint技術 Weights and Measures \odot \circ \circ remove UNC, School of Medicine, Genetics 0000 Gener 確保找到的結果是 remove Charles M Perou rechnology. \odot \circ \circ UNC, School of Medicine, Genetics remove 相關的 Classification remove Ron Ross Sederoff NCSU, College of Natural Resources, Biot... Human Genome Project remove David F Ransohoff Genome, Human \odot \circ \circ remove UNC, School of Medicine, Medicine 0000 Nature remove David N Haves 133 Economics \odot \circ \circ \circ UNC, School of Medicine, Medicine remove

教授Lawrence的專屬頁面

Lawrence C An 🖶

Medical School, Internal Medicine - General Medicine

Home

Expert Overview

Fingerprint

Publications

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Similar Experts

Journals

Fingerprint Trends

Institutional Network

Coauthor Network

Research Network

Curriculum Vitae

Lawrence C An

Organizations



Fingerprint Trends



Research Network

Publications

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1. Justin Gatwood; Rajesh 2014 Balkrishnan; Steven R. Erickson; Lawrence C. An; John D. Piette; Karen B. Farris Addressing medication nonadherence by mobile phone: Development and delivery of tailored messages

Research in Social and Administrative Pharmacy, 2014,

2. Jeffrey T. Kullgren; Geoffrey C. 2013 Williams: Lawrence C. An Patient-centered financial incentives for health: Can employers get change for their dollars?

Healthcare. 2013;1(3-4):82-85.

з. Lawrence C. An: Michele R. S. Demers: Matthias A. Kirch: 2013 Shannon Considine-Dunn; Vijay Nair; Kohinoor Dasgupta; Naveen Narisetty; Ken Resnicow; Jasjit Ahluwalia

A randomized trial of an avatarhosted multiple behavior change

列出相同研究領 域之研究人員

Similar Experts	more >	
	Publications	
James D Geiger	84 Lulul	
■ Shobha V Malviya	110 111111.	
● Paul I Reynolds	40 III.	
■ Edward F Domino	423 milli.	
Kirk J Brower	111 _{.d.ld} lj.	

Journals more > Publications Nicotine and Tobacco... 5 American Journal of Pr... Journal of Medical Inte... Preventive Medicine 3 2 ■ Tobacco Control

教授Lawrence的學術合作網絡

Home **Expert Overview Fingerprint Publications** Grants **Patents** Similar Experts Journals Fingerprint Trends Institutional Network Coauthor Network **Research Network** Curriculum Vitae

Lawrence C An

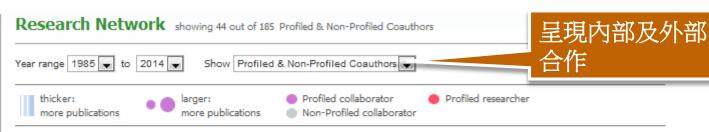
Organizations

Medical School

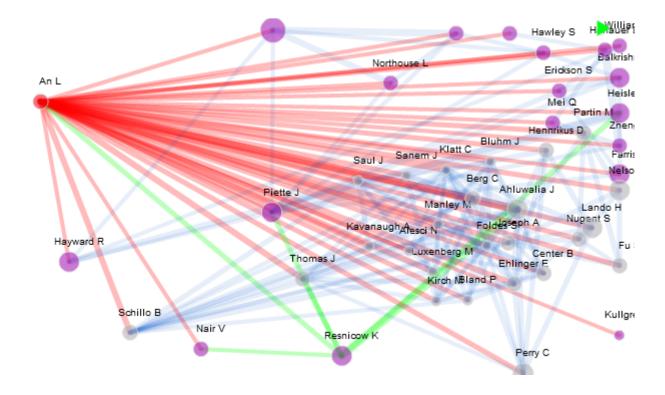
Internal Medicine - General Medicine

Current Appointments:

Associate Professor, Internal Medicine -General Medicine

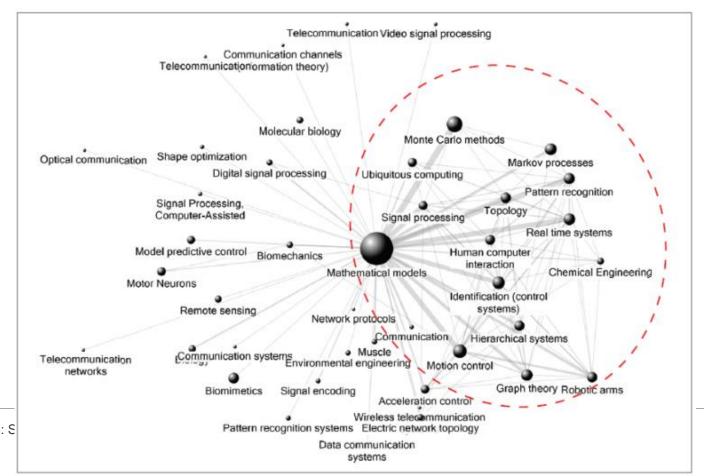


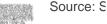
The visualization below creates a map of the connections between this researcher and their collaborators. The circles represent individual researchers and the lines connecting them represent papers that they have published together. The size of each indicates the number of publications; a larger line = more collaborations; a larger circle = more publications. The visualization continues to move because it is a forcedirected algorithm, constantly reshaping the visualization to find the best view. You may pause the movement by clicking anywhere in the box. This visualization ins based on Scopus publications.



可以了解學校整體、系所研究者的技術相關性

Using SciVal Experts, the university identified a wide range of researchers with potential to contribute to research that will help develop personalized technologies. Further keyword network visualization revealed the expertise of identified researchers to inspire new research collaborations.





主要原因: 收錄範圍廣、作者辨識佳

- Scopus 是全球最大的索摘引文資料庫,來自5000個出版社(經同儕審 核),具獨立的內容審查與諮詢委員會(CSAB),尤重亞洲地區的收錄
- Scopus資料權威性: 許多國際組織採用Scopus資料作為研究評估工具
- 文章同步更新,省去人工更新及維護成本
- 能整合其他的出版品及引用資料,當地文獻、專利、研究計畫等
- 作者辨識功能(求準率&求全率高達95%以上)
- 人工建置作業,力求作者、系所資料正確











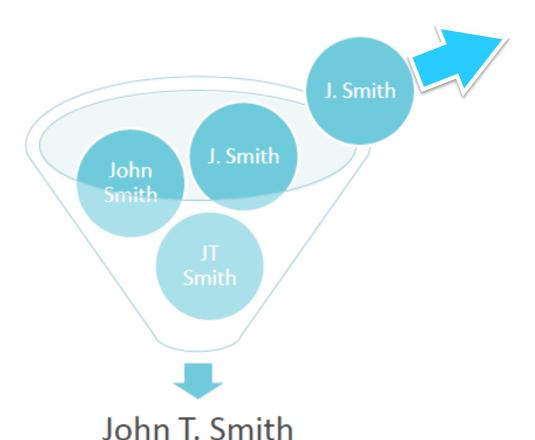








作者辨識功能



- 自動演算法: 將作者姓名、 單位、email、期刊、主 題等資料歸類
- 手動修正: Elsevier 團隊
- 整合 ORCID
- 精準率及求全率達95% 以上



了解機構競爭優勢,確認合作對象

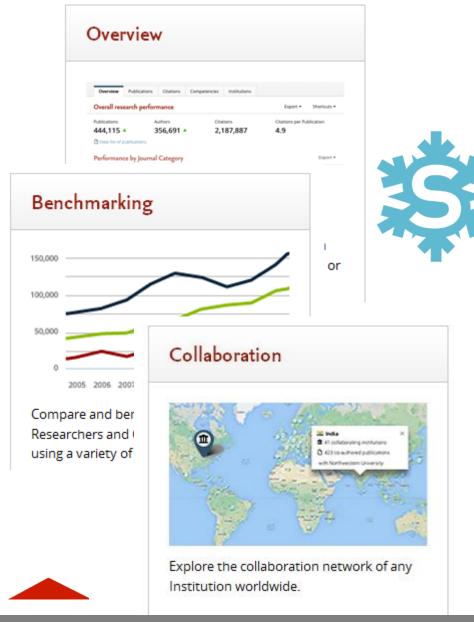


SciVal解決方案

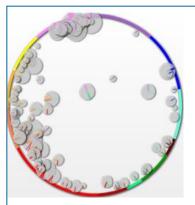
了解本身研究強項 與其他機構比較

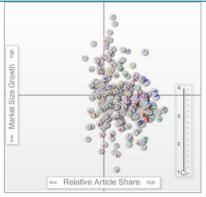
確認目前及未來可 能合作對象

衡量合著的影響力



透過視覺化及BCG矩陣分析. 了解機構研究競爭優勢



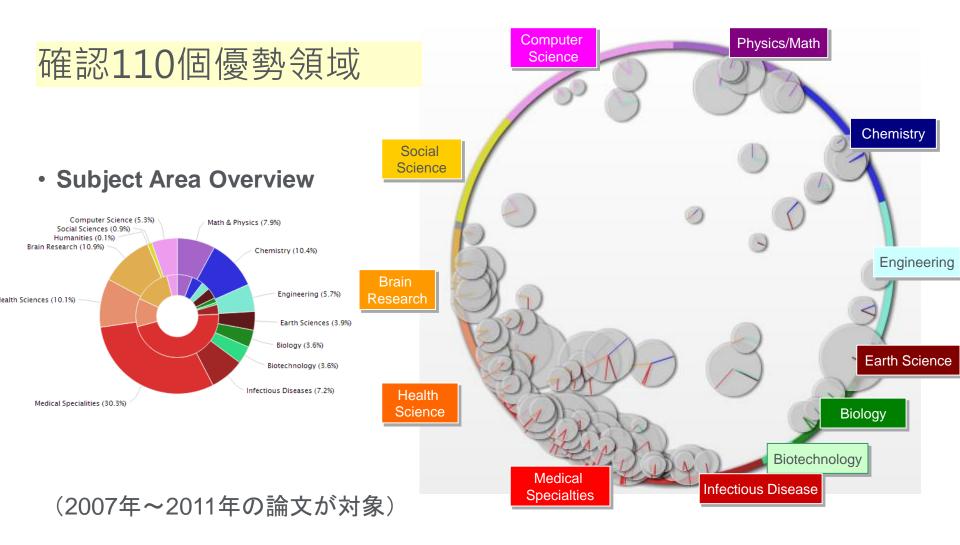




- 依文章共被引方式分類,打破 學科限制,跨領域的研究主題 可被定義出來
- 確認該機構之競爭優勢領域及 潛在競爭優勢領域
- 提供機構或國家研究投入的方 向
- 根據特定的領域尋找潛在合作 對象
- 確認重要學者,做為招募對象

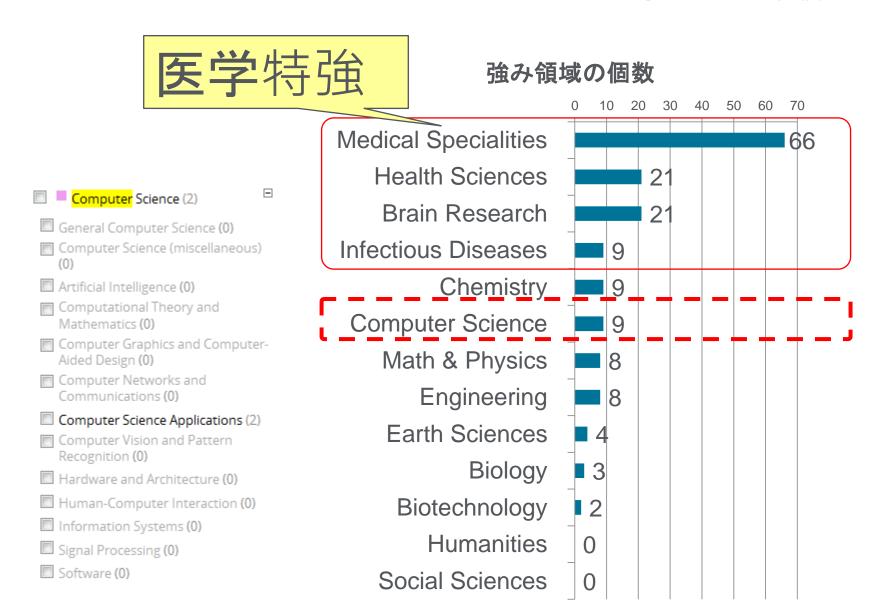
收錄全球220個國家,4600家研究機構的科學研究成果 使用對象包括學術機關、政府決策單位、經費管理者等

日本某大學的實際案例

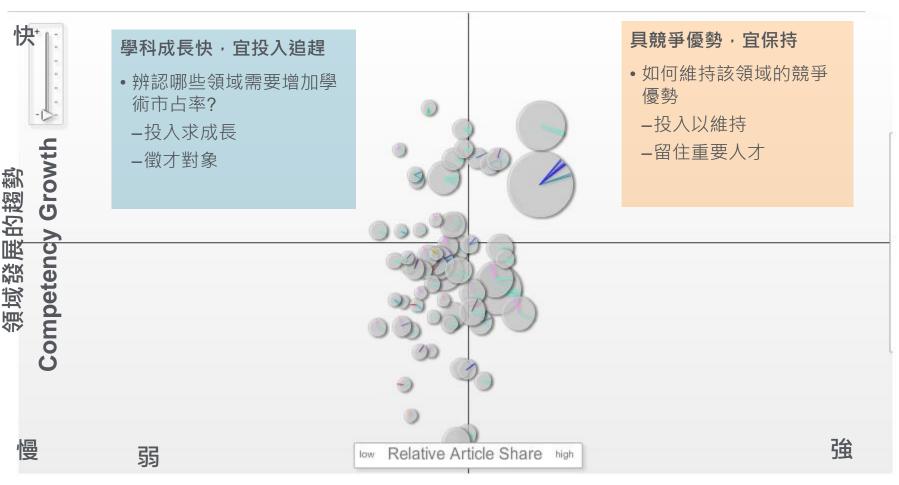


子領域分析

子領域達500多個



制定領域發展策略



領域文獻數占比

選定投入領域,尋找適合機構

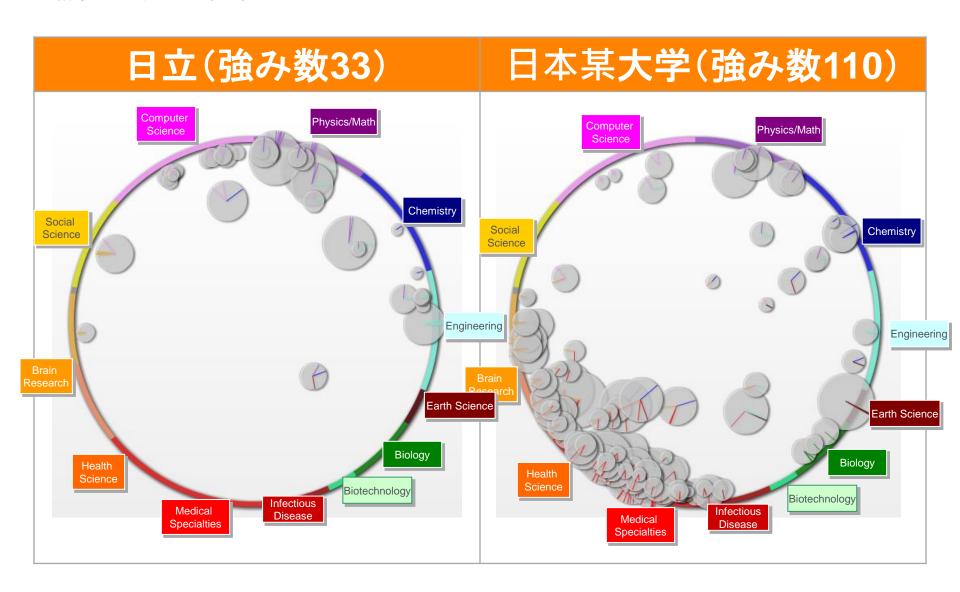
Competency EC #95

Algorithms; Mathematical morphology; Image processing

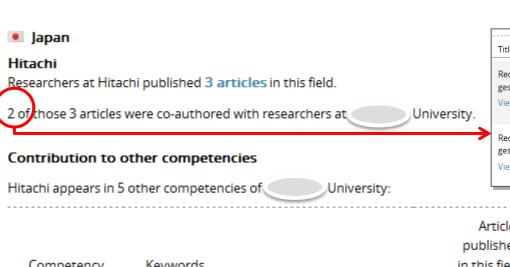
圖像分析

Summar	y Trends	Disciplines	Institutions	Authors	Compare	Methodology	
Institutio		ions ·				Articles publisl in this f	
1. N	lortheastern Universit		China			5	
2. 5	hanghai Jiaotong Univ		Chi	na		6	
3. H	litachi		Japa	Japan		3	
4. 5	outheast University		Chi	na		2	
5. H	lebei Polytechnic Univ		Chi	na		2	
6. H	luazhong University of	nology	Chi	China		3	
7. K	anazawa Institute of T		Japa	an		2	
8. K	Kanazawa University			Japa	an		2
9. K	inki University		Japa	an		2	
10. U	niversity of Toyama		Japa	Japan			

機構競爭優勢比對



日本某大學與日立共同合著



Title Authors Journal Recognition of grouping patterns in trademarks based on the Iguchi, H. et al. 2007 IEEJ Transactio gestalt psychology Electronics. Information ar View abstract | View in Scopus Systems Recognition of grouping patterns in trademarks based on the Iguchi, H. et al. Electronics and gestalt psychology Communication View abstract | View in Scopus

Competency Keywords Algorithms; Mathematical morphology; EC #95 Image processing

Articles published Fractionalized in this field article count 3 2.0

Electronics and Communications in Japan



Volume 92, Issue 10, October 2009, Pages 49-60 Recognition of grouping patterns in trademarks based on the gestalt psychology Iguchi, H.a, Abe, K.b, Misawa, T.C, Kimura, H.d, Daido, Y.e

- a Hitachi Ltd., Japan
- b Kinki University, Japan
- ^C University of Toyama, Japan
- University, Japan
- E Kanazawa Institute of Technology, Japan

透過SciVal Experts的學者檔案尋找相似領域的專家



HARUHIKO KIMURA 木村 春彦



Institute of Science and Engineering

Faculty of Electrical and Computer Engineering

Title Professor

H-Index: 4



Institutional Network	
■ Kanazawa Institute of Technology	17
University of Toyama	17
Kanazawa Seiryo University	10
Ishikawa National College of Technology	7
Industrial Research Institute of Ishikawa	5
■ Kinki University	5
■ Fukuoka Institute of Technology	5
■ Nippon Telegraph & Telephone	3
■ Kogakuin University	2
National University Corporation University of Fukui	2
Hitachi, Ltd.	2

more >

10

10

8

Publications





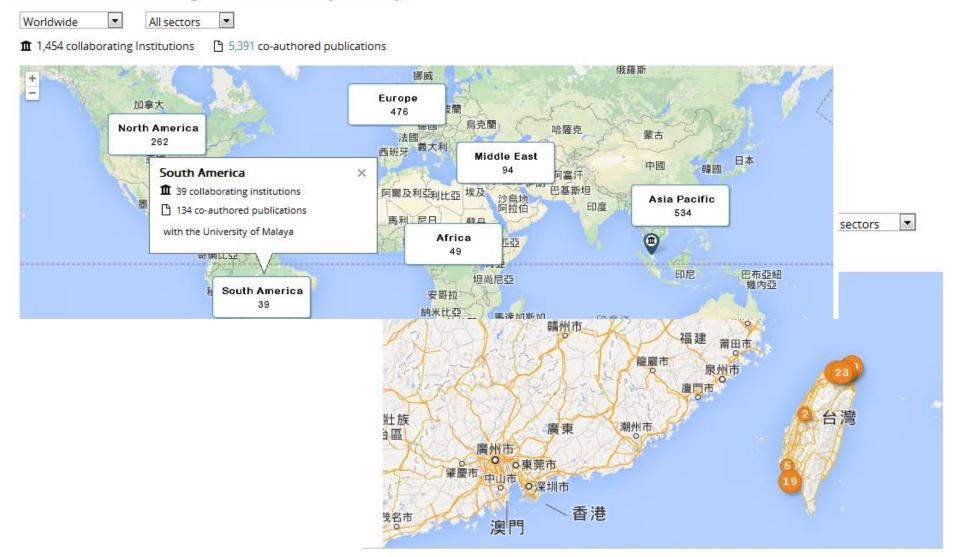


國際合著成果與其他學校相比



Collaboration status w/ other institutions 合作現況

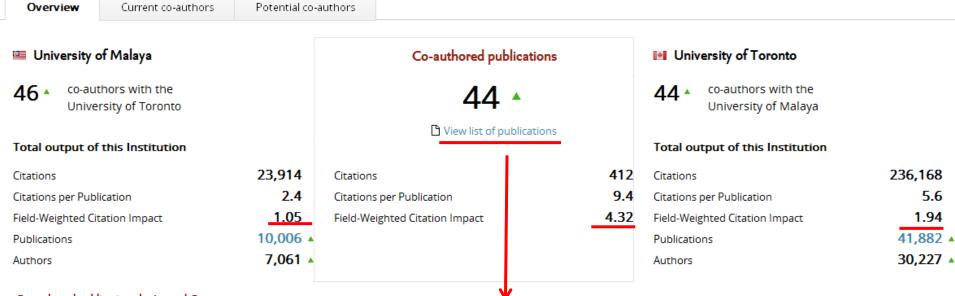
Institutions collaborating with the University of Malaya



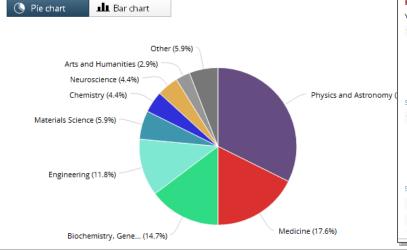
合作現況探討

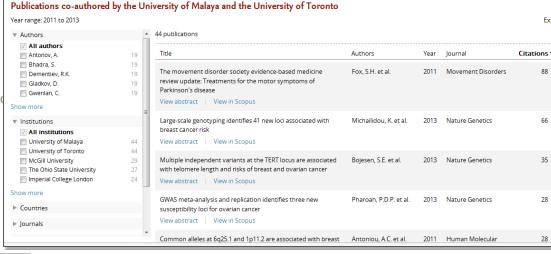
Collaboration with the University of Toronto

Year range: 2011 to 2013 Export ▼ Shortcuts



Co-authored publications by Journal Category





圖書館服務與食物







Scopus



SciVal

Elsevier Research Intelligence

謝謝聆聽