

# Algorithmica

## ◎ 期刊品質

1. 是否為 SCI 或 SSCI 期刊：是的。
2. 其他索引：  
MathSciNET --- Science Citation Index --- Compendex --- INSPEC
3. 出版機構隸屬：Springer New York
4. 期刊類型：跨學科期刊。
5. 出版機構類型：營利性期刊。
6. 發行年度：1986 年迄今。

### 標準量化指標

7. 總引用次數 (Total Citations)：1530

總引用次數	1530
近兩年引用次數	118
影響指數	0.825

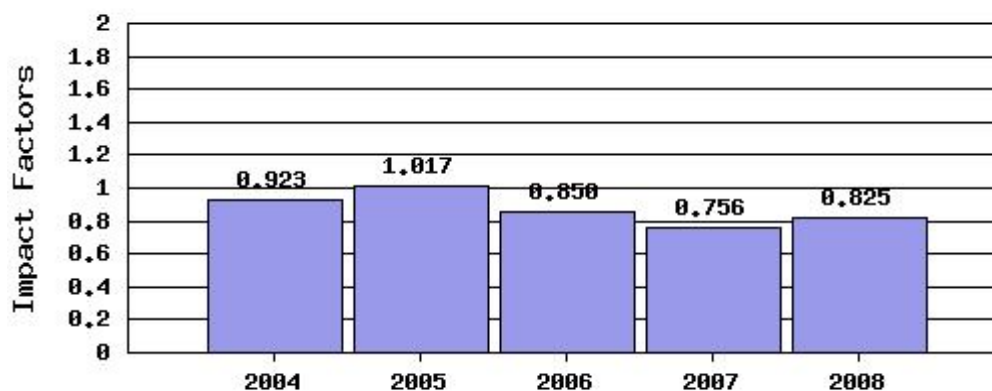
- 自我引用次數 (Self Cites)：36

自我引用次數	36 (2% of 1530)
近兩年期刊自我引用次數	3 (2% of 118)
扣除期刊自我引用次數後的影響指數	0.804

8. 影響指數 (Impact Factor)：0.825

近五年影響指數 (5-Year Journal Impact Factor)：1.222

ALGORITHMICA



JCR Years  
(影響指數趨勢圖)

### 9. 總體影響指數 (Aggregate Impact Factor) :

1.255 in Computer Science, Software Engineering

0.989 in Mathematics, Applied

### 10. 領域排名 (Rank in Category) :

領域	總期刊數	影響指數排名	四分位百分比排名 (Quartile in Category)
COMPUTER SCIENCE, SOFTWARE ENGINEERING	86	60	Q3
MATHEMATICS, APPLIED	175	83	Q2

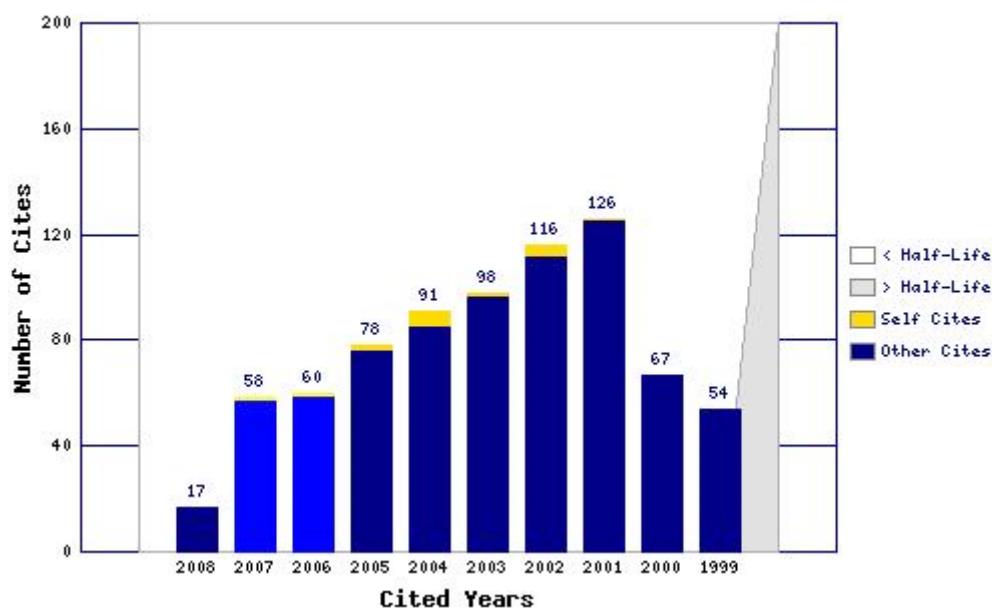
\*\*Q1 為該領域影響係數名次前 25%，Q2 為 25%-50%，Q3 為 50%-75%，Q4 則為後 75%。

### 11. 被引用半衰期 (Cited Half Life) : 10 years

以下為此期刊文獻引用次數以及累積總和百分比的分析：

年度	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998-all
引用次數	17	58	60	78	91	98	116	126	67	54	765
累積總和百分比	1.11	4.90	8.82	13.92	19.87	26.27	33.86	42.09	46.47	50.00	100

以下為此期刊每年文獻引用次數及其分析：



- 白色 / 灰色區塊代表期刊被引用半衰期。
- 黃色區塊代表期刊自我引用的次數。
- 深藍色區塊代表期刊非自我引用的次數。
- 藍色區塊的資料為影響指數的計算依據。

12. 特徵因子分數 (Eigenfactor Score) : 0.00559

13. 論文影響分數 (Article Influence Score) : 0.800

14. 立即引用率 (Immediacy Index) : 0.230

15. 總體立即引用率 (Aggregate Immediacy Index) : 0.182

### 其他期刊品質指標

16. 編輯品質：優。

17. 即時性：準時。

## ◎ 期刊資訊大要

### 18. 期刊聯絡資訊：

- **Publishing Manager**  
Springer New York  
Computer Science Editorial  
Jennifer Evans  
Spring St. 233  
10013 New York  
USA  
Phone:+1781681-0625  
E-mail:[jennifer.evans@springer.com](mailto:jennifer.evans@springer.com)
- **Production Manager**  
Springer New York  
David Seidenfeld  
Spring Street 233  
10013 New York  
USA  
Phone:+1212620-8058  
E-mail:[david.seidenfeld@springer.com](mailto:david.seidenfeld@springer.com)

### 19. 主編電子郵件以及期刊網址：

- Editor-in-Chief  
**Prof. Ming-Yang Kao**  
Department of Electrical Engineering and Computer Science  
Northwestern University  
2145 Sheridan Road, Room M324  
Evanston, IL 60208, USA  
[kao@northwestern.edu](mailto:kao@northwestern.edu)
- Application Experience-Editor:**D. T. Lee** (來自台北)  
**Prof. D. T. Lee**  
Institute of Information Science  
Academia Sinica  
Nankang, Taipei 11529  
Taiwan
- Bernard Chazelle (您的論文文獻之一)
- 期刊首頁連結：<http://www.springer.com/computer/theoretical+computer+science/journal/453>

### 20. 目標讀者群：研究人員、學生和專業人員。

### 21. 接受文章類型：

理論性或實務性的研究論文皆可，主要是各種與演算法有關的領域，例如超大型積體電路研究、分散式計算、平行處理等。

Algorithmica is an international journal which publishes theoretical papers on algorithms that address problems arising in practical areas, and experimental papers of general appeal for practical importance or techniques. The development of algorithms is an integral part of computer science. The increasing complexity and scope of computer applications makes the design of efficient algorithms essential.

Algorithmica covers algorithms in applied areas such as: VLSI, distributed computing, parallel processing, automated design, robotics, graphics, data base design, software tools, as well as algorithms in fundamental areas such as sorting, searching, data structures, computational geometry, and linear programming.

In addition, the journal features two special sections: Application Experience, presenting findings obtained from applications of theoretical results to practical situations, and Problems, offering short papers presenting problems on selected topics of computer science.

相關連結：<http://www.springer.com/computer/theoretical+computer+science/journal/453>

## 22. 宗旨及範圍：

The development of algorithms is an integral part of computer science. The increasing complexity and scope of computer applications makes the design of efficient algorithms essential.

Algorithmica is an international journal which publishes original papers on algorithms that are either (i) theoretical papers addressing problems arising in practical areas or (ii) experimental papers that have general appeal because of their practical importance or techniques. Papers are expected to make significant contributions, judged in terms of theoretical analysis, simulations, or algorithm behavior on data from applications. The areas listed below are representative areas; papers in other areas are certainly welcome.

The fields of interest include algorithms in applied areas such as: VLSI, distributed computing, parallel processing, automated design, robotics, graphics, data base design, software tools, as well as algorithms in fundamental areas such as sorting, searching, data structures, computational geometry, and linear programming. It is expected that the areas covered by this journal will change as new technologies, methodologies and applications develop.

In addition to these regular papers, the journal features two special sections: Application Experience and Problems.

The objective of the Application Experience section is to publish findings obtained from applications of theoretical results to practical situations. Findings include, but are not limited to, difficulties encountered in the course of the implementation or testing of algorithms (e.g., handling of degenerate cases which are often not addressed in detail but which actually occur in practice), nontrivial deviations of actual running times of the implemented algorithms from the asymptotic analytical studies, comparisons of actual performance of various algorithms proposed, and discussions of applicability of theoretical studies in practice. All submissions will be subject to the reviewing process and copies of source codes should be made available upon request by the Editor for reviewing purposes.

The Problems section publishes short papers presenting problems on selected topics of computer science. Special emphasis will be given to papers surveying open problems in a specific area of interest. Contributions will begin with a title and an introductory statement identifying a theme of research, followed by a list of related problems which to the author's knowledge are as yet unsolved. Authors are encouraged to annotate the text with comments, background material and appropriate references. All submissions will be subject to the reviewing process.

相關連結：<http://www.springer.com/computer/theoretical+computer+science/journal/453>

## 23. 出版數量：12 本 / 年

24. 每年出版論文的數量：一年平均出版 88 篇論文 (2009 年出版 96 篇，2008 年出版 79 篇)。

## 25. 主編的信：

Algorithmica is an international journal which publishes theoretical papers on algorithms that address problems arising in practical areas, and experimental papers of general appeal for practical importance or techniques. The development of algorithms is an integral part of computer science. The increasing complexity and scope of computer applications makes the design of efficient algorithms essential.

Algorithmica covers algorithms in applied areas such as: VLSI, distributed computing, parallel processing, automated design, robotics, graphics, data base design, software tools, as well as algorithms in fundamental areas such as sorting, searching, data structures, computational geometry, and linear programming.

In addition, the journal features two special sections: Application Experience, presenting findings obtained from applications of theoretical results to practical situations, and Problems, offering short papers presenting problems on selected topics of computer science.

## ◎ 出版格式

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26. 紙本及 / 或電子格式：皆有。

27. 是否為公開存取期刊？投稿人可以自由選擇。

“The authors can choose if they want to open access. The majority of our journals offer the option of having articles made available with open access, free to anyone, anytime, and anywhere in the world in return for payment of an open access publication fee.

If authors choose open access in the Springer Open Choice program, they will not be required to transfer their copyright. The final published version of all articles can be archived in institutional or funder repositories and can be made publicly accessible immediately. For PubMed Central we are happy to deposit the article’s full-text XML simultaneously with its publication.”

## ◎ 期刊投稿人

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28. 投稿人的學術背景：大部分為研究人員和教授。

29. 作者種族多元化與否？是的。

30. 台灣投稿者所佔的比例為多少？2008年至2009年，約4%的作者來自台灣。

31. 投稿人是否來自各個不同的大學機構？是的。

32. 編輯委員會成員：

<http://www.springer.com/computer/theoretical+computer+science/journal/453?detailsPage=editorialBoard>

33. 此期刊編輯人員是否正在異動？否。

## ◎ 作者文章與期刊關聯

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34. 此期刊是否曾經出版過相同主題的論文？是的。

35. 此期刊最近一次出版和我們論文主題相同的文章是什麼時候？

- **Title:**Optimal External Memory Planar Point Enclosure  
**Author(s):**Arge, L; Samoladas, V; Yi, K  
**Source:**ALGORITHMICA Volume:54 Issue:3 Pages:337-352 Published:2009  
**Times Cited:**0
- **Title:**Linearized Suffix Tree:an Efficient Index Data Structure with the Capabilities of Suffix Trees and Suffix Arrays  
**Author(s):**Kim, DK; Kim, M; Park, H  
**Source:**ALGORITHMICA Volume:52 Issue:3 Pages:350-377 Published:2008  
**Times Cited:**1
- **Title:**Space efficient dynamic orthogonal range reporting  
**Author(s):**Nekrich, Y  
**Source:**ALGORITHMICA Volume:49 Issue:2 Pages:94-108 Published:2007  
**Times Cited:**1

36. 論文是否和編輯目標一致？

是的，<http://www.springer.com/computer/theoretical+computer+science/journal/453>

37. 論文是否為此期刊偏好的量化或質化的研究？是的。(量化研究)

38. 此期刊出版過的論文有和我們論文的研究方法一樣的嗎？是的。

- **Title:**On Sorting, Heaps, and Minimum Spanning Trees  
**Author(s):**Navarro, G; Paredes, R  
**Source:**ALGORITHMICA Volume:57 Issue:4 Pages:585-620 Published:2010  
**Times Cited:**0
- **Title:**Homogeneous String Segmentation using Trees and Weighted Independent Sets  
**Author(s):**Damaschke, P  
**Source:**ALGORITHMICA Volume:57 Issue:4 Pages:621-640 Published:2010  
**Times Cited:**0
- **Title:**A Constant-Competitive Algorithm for Online OVSF Code Assignment  
**Author(s):**Chin, FYL; Ting, HF; Zhang, Y  
**Source:**ALGORITHMICA Volume:56 Issue:1 Pages:89-104 Published:2010  
**Times Cited:**0

39. 如果我們的論文提出一個嶄新的技術，此期刊是否曾出版類似的文章？是的。

**Title:**On the Quantum Query Complexity of Local Search in Two and Three Dimensions  
**Author(s):**Sun, XM; Yao, ACC  
**Source:**ALGORITHMICA Volume:55 Issue:3 Pages:576-600 Published:2009  
**Times Cited:**0

## ◎ 期刊文獻和論文文獻的關聯

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40. 此期刊在我們論文被引用的次數：一次。

41. 類似研究主題的作者是否也投稿至此期刊？是的。

- 您的論作文獻中，其中一位作者 Bernard Chazelle 除了投稿至本期刊外，也是本期刊的 Problems-Editor。
- 您的論作文獻中，其中一位作者 Edelsbrunner, H. 也曾投稿至本期刊。
- Klein, R., Nurmi, O., Ottmann, T., and Wood, D. "A dynamic fixed windowing problem," *Algorithmica*, Vol. 4 (1989).

## ◎ 論文寫作風格和期刊相符

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42. 特刊或是期刊主題：無。

43. 字數或頁數限制：20 頁為上限。

## ◎ 接受、審查容易程度

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44. 積存量：無法得知。

45. 平均審查時間：三至六個月。

46. 退稿率：無法得知。