



使用手冊



長智文化事業有限公司
IG Knowledge Ltd.

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ACM Digital Library 簡介

ACM Digital Library 是由全球最大的電腦教育及科學機構 — 美國計算機協會 (Association for Computing Machinery, ACM) 所出版的資料庫，集合電腦科學領域中頂尖的作者、編輯群和評論者，提供高品質和可靠的資訊來源。資料庫內容包含由 ACM 本身及其附屬機構所出版的全文文章，並提供電腦文獻指引(the Guide to Computing Literature)，涵蓋整個電腦領域的文摘與索引服務。且提供分析工具來幫助分析電腦科學領域出版品、作者及機構。

ACM Digital Library 使用

■ 首頁：<http://dl.acm.org/>

The screenshot shows the ACM Digital Library homepage. At the top left, there are logos for ACM Digital Library and the Association for Computing Machinery. On the top right, there are navigation links: 'Browse', 'About', 'Sign in', and 'Register'. A red box highlights the 'Sign in' link. Below the navigation, there is a search bar with the text 'Search' and a magnifying glass icon. A red box highlights the search bar. To the right of the search bar, there is a red box containing the text '機構名稱' (Institution Name). Below the search bar, there is a red box containing the text '一般檢索' (General Search) and another red box containing the text 'Advanced Search' and '進階檢索' (Advanced Search). In the center, there is a welcome message: 'Welcome to the ACM Digital Library. A community engaged with a repository of resources to support computing research and practice. Please explore and use the [Feedback] button on any page to help us shape the new site.' Below the welcome message, there is a row of seven circular icons: 'Journals', 'Magazines', 'Proceedings', 'ACM Books', 'SIGs', 'Conferences', and 'People'. A red box highlights this row of icons. Below each icon is a red circle with a number from 1 to 7. At the bottom right, there is a 'Youtube Channel' link.

- 1 **Journals**：所有 ACM 出版的期刊總頁面。
- 2 **Magazines**：所有 ACM 出版的雜誌總頁面。
- 3 **Proceedings**：ACM 與 ACM SIGs 所贊助舉辦的會議論文頁面。
- 4 **ACM Books**：ACM 電子書頁面 (不包含在 ACM Digital Library 訂閱可使用項目中，需另行購買)。
- 5 **SIGs**：ACM 的特殊興趣團體 (Special Interest Groups, SIG) 頁面。
- 6 **Conferences**：ACM 與 ACM SIGs 所贊助舉辦的會議資訊頁面。
- 7 **People**：ACM Digital Library 中的作者頁面。

* 若要用個人化功能，需登入個人的 ACM Web account

* 直接在檢索框輸入關鍵詞進行快速檢索(Quick Search)後，在檢索結果的左側會有條件選項，可以透過條件選項縮限檢索結果；若想第一次檢索時直接限定多個條件，請選進階檢索(Advanced Search)



■ Journals/Magazine (期刊/雜誌頁面)

(Magazines 的顯示方式基本上如同 Journals, 所以僅以 Journals 頁面為例。)

在整個ACM DL中檢索

Search ACM Digital Library

Advanced Search

ACM Journals

Search within the ACM Journals

僅在ACM Journals當中檢索

Home > ACM Journals

About ACM Journals

ACM publishes more than 50 scholarly peer-reviewed journals in dozens of computing and information technology disciplines. Available in print and online, ACM's high-impact, peer-reviewed journals constitute a vast and comprehensive archive of computing innovation, covering emerging and established computing research for both practical and theoretical applications. ACM journal editors are thought leaders in their fields, and ACM's emphasis on rapid publication ensures minimal delay in communicating exciting new ideas and discoveries.

Recommend ACM DL

ACM JOURNALS

View: Grid View List View

選擇塊狀(Grid)或條列(List)方式
顯示下方的期刊清單
[此處為塊狀方式(Grid View)]

- CSUR**
ACM Computing Surveys
- DGOV**
Digital Government:
Research and Practice
- DTRAP**
Digital Threats: Research
and Practice
- HEALTH**
ACM Transactions on
Computing for Healthcare
- IMWUT**
Proceedings of the ACM
on Interactive, Mobile,
Wearable and Ubiquitous
Technologies
- JACM**
Journal of the ACM

各頁面最上方的黑色功能列中為固定顯示，此功能列上的檢索框皆設定為在整個 ACM Digital Library 中檢索。進入每個子頁面的檢索功能條，則限定僅檢索子頁面之下的內容。點擊頁面下方的各期刊名稱，即可進入該期刊的主頁。

單本期刊主頁 (以 ACM Computing Surveys 為例)

Journal Home Latest Issue Archive Authors Editors Reviewers Affiliations Award Winners About Contact Us

ACM Computing Surveys

Search within CSUR

僅在這本期刊中檢索

Home > ACM Journals > ACM Computing Surveys

ACM Computing Surveys

進入當期頁面

ACM Association for Computing Machinery

These comprehensive, readable surveys and tutorial papers give guided tours through the literature and explain topics to those who seek to learn the basics of areas outside their specialties in an accessible way. The carefully planned and presented introductions in *Computing Surveys (CSUR)* are also an excellent way for researchers and professionals to develop perspectives on, and identify trends in complex technologies. Contributions ... (More)

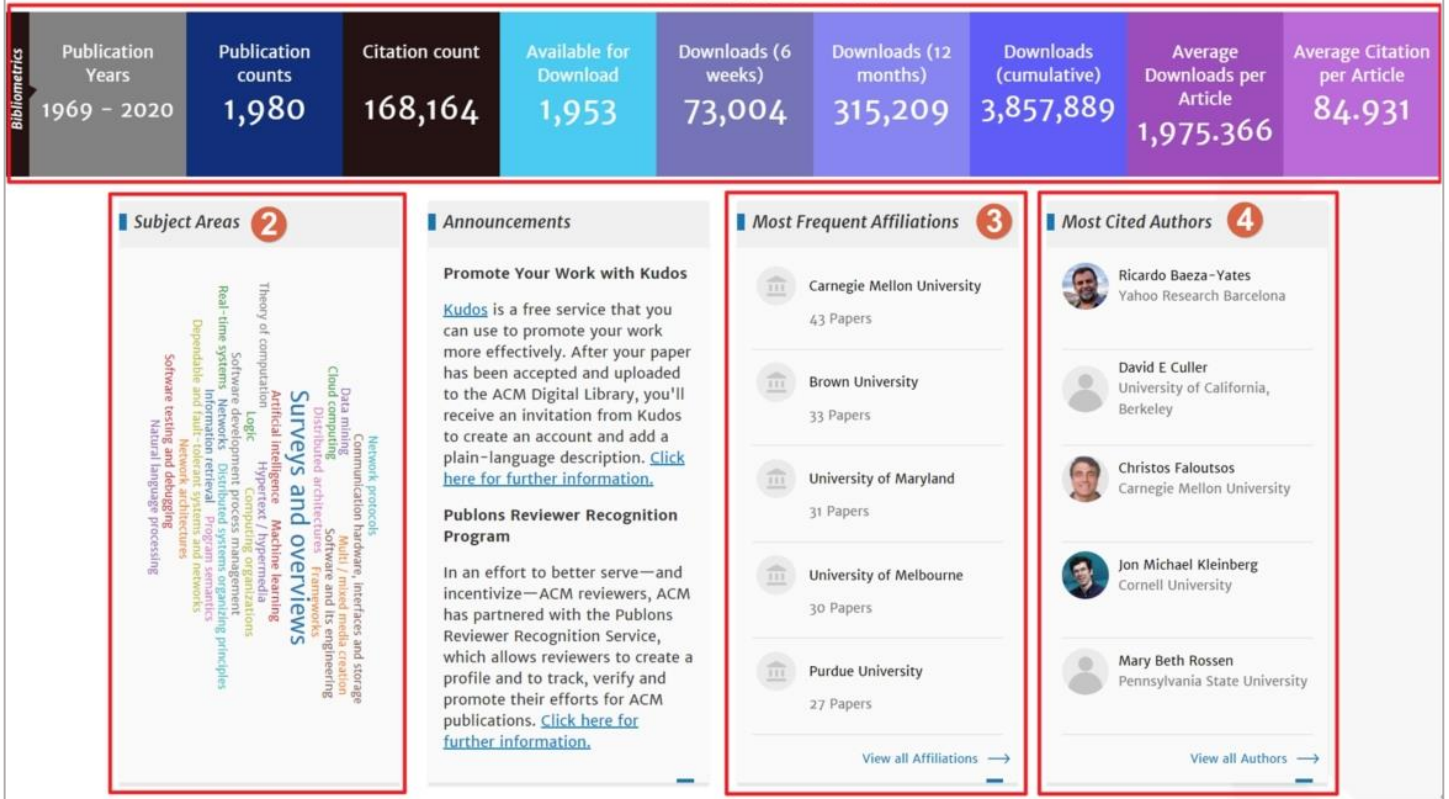
Editor-in-Chief: Albert Zomaya

設定獲取期刊出刊通知 (個人化功能)

Get Alerts for this Journal

Twitter LinkedIn Facebook Email RSS

有關本刊的計量資訊



1 期刊功能標籤說明：

- **Latest Issue**：最新一期。
- **Archive**：過往的刊期。
- **Authors**：本刊中的作者。
- **Editors**：本刊的編輯群。
- **Reviews**：給本刊評論者的資訊 — 評審的過程、標準、決定.....等等資訊，投稿者也可以從這裡了解投稿後的評審流程。
- **Affiliations**：本刊作者所屬機構。
- **Award Winners**：與本刊相關的得獎者。
- **About**：提供 編輯憲章(Charter)、投稿呼籲 (CFTs=Call for Paper)、本刊的通知(Announcement)、以及刊物被那些資料庫/服務收錄其摘要與索引(Abstracting and Indexing)的資訊。
- **Contact Us**：本刊的管理者的連絡資訊。

2 Subject Areas：本期刊中常見的主題。點選本期刊中常見的主題，就會執行含該主題在這本期刊中的檢索結果顯示。

3 Most Frequent Affiliations：最常投稿本刊的作者所屬機構。

4 Most Cited Authors：最常被引用的作者。



■ Proceedings (會議錄頁面)

ACM Proceedings Conferences when & where ICPS Proceedings

ACM Proceedings

Search with ACM Proceedings

在所有ACM Proceedings中檢索

Home > ACM Proceedings

ACM Proceedings

Conference proceedings capture innovation across the spectrum of computing fields by publishing refereed research findings and invited papers from ACM conferences, workshops and symposia. In the field of computing, conferences constitute a vital channel for publications because they are the venue where cutting edge research is presented and discussed. ACM and its SIGs convene more than 170 conferences, symposia and workshops each year.

Search Proceedings by title:

Browse Proceedings alphabetically 會議依照A-Z排列

3 Conferences

3DAPAS: Dynamic Distributed Data-Intensive Applications, Programming Abstractions, and Systems 1 Proceedings

3DAPAS '11: Proceedings of the 2011 workshop on Dynamic distributed data-intensive applications, programming abstractions, and systems View Conference →

3DOR: 3D Object Retrieval

3DVP: 3D Video Processing

A 204 Conferences

B 49 Conferences

❶ ACM Proceedings：是由 ACM 與 ACM SIGs 所贊助舉辦會議的論文

❷ ICPS Proceedings：非 ACM 與 ACM SIGs 所贊助舉辦會議，但是會議論文由 ACM 所出版的。

以上每個會議名稱點擊打開後，會顯示所曾舉行過年份的會議，點入該年份的會議名稱，會進入該年份會議的 conference 頁面



Conferences when & where (會議舉辦時間與地點頁面)

本頁面提供近期以及未來，將舉辦的會議資訊。

Home > Conferences > Upcoming events

Upcoming and Past Conferences

ACM's Special Interest Groups (SIGs) sponsor more than 170 computing conferences, workshops, and symposia around the world. These events, which mirror the state-of-the-art in their respective fields, attract renowned experts from a broad range of computing.

View List of ACM Conferences →

1 Search by Title

Choose from a specific SIG Choose Conference Apr 20, 2018 - Jan 20, 2021

City State Country

Clear All Search

2 353 Results Sort By: Latest

Conference Name	Date	Location	Official Website
ASPDAC '21 Sponsor: SIGDA ASPDAC '21: 26th Asia and South Pacific Design Automation Conference	January 18 - 21, 2021	Tokyo, Japan	ASPDAC '21 Website
No Available Proceeding yet			
Middleware '20 Sponsor: Middleware '20: 21st International Middleware Conference	December 7 - 11, 2020	Delft, Netherlands	
No Available Proceeding yet			

3 地圖 衛星檢視

- 1 設定條件以檢索未來的會議。
- 2 檢索結果顯示。
- 3 互動式地圖 — 📍 表示未來將舉辦的會議, 📍 表示已舉辦過的會議

ACM Books (需額外訂購)

ACM 自 2014 年起，與 Morgan & Clayppol 出版社合作，啟動了一個新的電子書系列出版企劃 — ACM BOOKS，來扮演重要角色以服務社群。也更增強 ACM Digital Library 中豐富的期刊與會議出版品的組合。

ACM BOOKS 電子書系列預計將涵蓋所有計算機科學領預中的主題，本系列初始將專注於四種類型的書籍：

- 研究生等級之教科書
- 研究專書 -- 提供發展成熟和新興領域的概述
- 從業人員等級的專業書籍
- 專論計算機史與計算機對社會影響之書籍



ACM Books (電子書頁面)

Books Home Archive Forthcoming Books Authors Affiliations Award Winners

ACM Books

Search within ACMBOOKS

在所有ACM Books中檢索

Home > ACM Books

ACM Books

ACM Books is a series of scholarly research monographs and graduate-level texts, authored by computer scientists and practitioners at the forefront of computing technology and includes books across the entire spectrum of computer science, geared to researchers, educators, practitioners and students. Comprehensive in its coverage of both established and emerging computing fields, the series focuses on graduate-level textbooks, research monographs, practitioner-level professional books, and books devoted to the history and social impact of computing. The ACM Books editorial board is composed of world-renowned professionals who represent the field's major areas of study.

[Recommend ACM DL](#)


ACM BOOKS
[Browse Books in the ACM Guide to Computing Literature](#)

New Releases

**點擊書籍圖片或書名
可進入該電子書頁面**



Computing and the National Science Foundation, 1950--2016: Building a Foundation for Modern Computing

Peter A. Freeman,
W. Richards Adrion, +1

2019

This organizational history relates the role of the National Science Foundation (NSF) in the development of modern computing. Drawing upon new and existing oral histories, extensive use of N...

[Read More](#) →



Providing Sound Foundations for Cryptography: On the Work of Shafi Goldwasser and Silvio Micali

Oded Goldreich

2019

Cryptography is concerned with the construction of schemes that withstand any abuse. A cryptographic scheme is constructed so as to maintain a desired functionality, even under malicious attempts aim...

[Read More](#) →



Concurrency: the Works of Leslie Lamport

Dahlia Malkhi

2019


This book is a celebration of Leslie Lamport's work on concurrency, interwoven in four-and-a-half decades of an evolving industry: from the introduction of the first personal computer to an...

[Read More](#) →

單本電子書的頁面

Home > ACM Books > *The Handbook of Multimodal-Multisensor Interfaces: Language Processing, Software, Commercialization, and Emerging Directions - Volume 3*

The Handbook of Multimodal-Multisensor Interfaces: Language Processing, Software, Commercialization, and Emerging Directions - Volume 3 · July 2019



Editors: Sharon Oviatt, Björn Schuller, Philip R. Cohen, +3

Publisher: Association for Computing Machinery and Morgan & Claypool

ISBN: 978-1-970001-75-4

DOI: <https://doi.org/10.1145/3233795>

Pages: 813

Appears In: ACM Books

電子書提供的格式

[PDF](#)

[ePub](#)

**(個人化功能)
儲存至個人資料夾**

[Save to Binder](#)

[Export Citation](#)

[Twitter](#) [LinkedIn](#) [Facebook](#) [Email](#)

有關本書的計量資訊

Bibliometrics	Citation count	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)
	14	1,752	2,060	2,060

■ SIGs (特別興趣團體)

ACM 的特別興趣團體 (Special Interest Groups, SIGs) 是來自全球領先的思想家的原始研究, 和個人觀點的主要來源, 涉及廣泛的電腦學科。目前在 ACM 之下包含 37 個 SIGs, 每一個 SIG 皆在各自的專業範圍內培養技術社群, 旨在提高其成員的技能, 使其與新趨勢保持同步, 並提供與同儕建立聯繫的機會。SIG 出版通訊和雜誌, 透過多種認可計劃鼓勵卓越發展, 並在本地至全球範圍組織會議和活動。

SIGs (SIGs 主頁面)

The screenshot shows the ACM SIGs website interface. At the top, there is a search bar with the text "在SIGs中檢索" and "Search within SIGs". Below the search bar, there is a navigation breadcrumb "Home > All Sigs". The main content area features a description of SIGs: "ACM's Special Interest Groups (SIGs) are a primary source of original research and personal perspectives from the world's leading thinkers across a broad spectrum of computing disciplines. SIGs foster technical communities within their respective specialties and aim to advance the skills of their members, keeping them abreast of emerging trends and offering opportunities for networking with colleagues. SIGs publish newsletters and magazines, encourage excellence through multiple recognition programs, and organize conferences and activities on a local-to-global scale." To the right of this text is a "Recommend ACM DL" button and the ACM SIGS logo. Below the description, there are two view options: "Grid View" (selected) and "List View". To the right of these options is the text "選擇塊狀(Grid)或條列(List) 顯示期刊清單". The main content area is a grid of 12 SIG categories, each with a logo and a brief description:

SIGACCESS The ACM Special Interest Group on Accessible Computing promotes the professional	SIGACT Special Interest Group on Algorithms & Computation Theory	SIGADA Special Interest Group on Ada Programming Language	SIGAI Special Interest Group on Artificial Intelligence	SIGAPP Special Interest Group on Applied Computing	SIGARCH Special Interest Group on Computer Architecture
SIGBED Special Interest Group on Embedded Systems	SIGBIO Special Interest Group on Bioinformatics, Computational Biology	SIGCAS Special Interest Group on Computers and Society	SIGCHI Special Interest Group on Computer-Human Interaction	SIGCOMM Special Interest Group on Data Communication	SIGCSE Special Interest Group on Computer Science Education



此處以 SIGGRAPH (Special Interest Group on Computing Graphics, 電腦圖形學特別興趣小組) 頁面為例

SIGGRAPH
Special Interest Group on Computer Graphics

Search within SIGGRAPH

在SIGGRAPH中檢索

Home > SIGs > SIGGRAPH

SIGGRAPH • Special Interest Group on Computer Graphics

The ACM Special Interest Group on Computer Graphics (SIGGRAPH) promotes the generation and dissemination of information on computer graphics and interactive techniques. Everyone is welcome to apply for membership, but most members are researchers, developers, or users from the technical, academic, business, and artistic communities. Membership in ACM SIGGRAPH includes a monthly ACM SIGGRAPH email newsletter, a siggraph.org email address, discounts on conference registrations, and free access to ACM SIGGRAPH publications in the ACM Digital Library.

Join SIG

Recommend ACM DL

SIGGRAPH Website

下一場會議資訊

Next Conference

I3D '20
Sponsor: SIGGRAPH

I3D '20: Symposium on Interactive 3D Graphics and Games

September 15 - 17, 2020

San Francisco, CA, USA

I3D '20 website

有關本團體的計量資訊

Bibliometrics	Publication Years	Publication counts	Available for Download	Citation count	Downloads (cumulative)	Downloads (6 weeks)	Downloads (12 months)	Average Citation per Article	Average Downloads per Article
	1969 - 2019	40,510	34,646	913,918	23,056,537	334,275	1,380,914	22.56	665.489

即將舉行的會議資訊

Upcoming Conferences

Conference Name	Date	Location	Sponsors	Website
I3D '20 Sponsor: SIGGRAPH	September 15 - 17, 2020	San Francisco, CA, USA		I3D '20 Website

- ❶ SIG Home : 每個 SIG 的主頁面。
- ❷ Publications : 該 SIG 團體的刊物與會議資訊頁面。
- ❸ Upcoming Events : 該 SIG 團體未來將舉辦的會議資訊頁面。
- ❹ Authors : 屬於該團體的作者群頁面。
- ❺ Affiliations : 屬於該團體作者的所屬機構群頁面。
- ❻ Award Winners : 曾獲獎的 ACM 作者。



■ ACM Conferences (ACM 會議頁面)

ACM Conferences

Conferences when & where

ICPS Proceedings

ACM Conferences

Search within ACM Conferences

在ACM Conference中檢索

Home > ACM Conferences

ACM Conferences

ACM and ACM Special Interest Groups (SIGs) sponsor more than 170 computing conferences, workshops, and symposia around the world. These events, which range in size from conferences with tens of thousands of attendees to small workshops, mirror the state-of-the-art in their respective fields and attract renowned experts from a broad range of computing disciplines, who submit leading-edge research papers for presentation at the conference and inclusion in the published proceedings. Many of these conferences have earned preeminent status in their respective fields, attracting attendees from around the globe.

Recommend ACM DL

acm
CONFERENCES

View: Grid View List View

選擇塊狀(Grid)或條列(List)
顯示期刊清單

ACM SE ACM Southeast Regional Conference	ANCS Architecture for Networking and Communications Systems	APGV Applied Perception in Graphics & Visualization	ASE Automated Software Engineering	ASIA CCS ACM Symposium on Information, Computer and Communications Security	ASPAC Asia and South Pacific Design Automation Conference
ASPLOS Architectural Support for Programming Languages and Operating Systems	ASSETS ACM SIGACCESS Conference on Computers and Accessibility	AUS-CE Australian Computing Education	BCB Bioinformatics, Computational Biology and Biomedicine	C&C Creativity and Cognition	CCS Computer and Communications Security

- ① **ACM Conferences** : ACM 所贊助舉辦的會議資訊
- ② **Conferences when & where** : 提供近期與未來將舉辦的會議資訊
- ③ **ICPS Proceedings** : 非 ACM 與 ACM SIGs 所贊助舉辦會議, 但是會議論文由 ACM 所出版的。



■ People (作者頁面)

Home > People

People

The world's leading computer scientists, educators and practitioners submit their work for publication in ACM's proceedings, journals, magazines and books. Discover ACM's community of authors across the broad spectrum of computing disciplines through their ACM DL Author Profiles.

Authors: Claim your author profile, enhance it with your contact information and social identities, and build your connections.

檢索作者姓名

Find by Name: Showing 1 - 20 of 23,282 Authors

per page: 10 20 50 Sort By: Latest Published

1 縮限條件過濾作者

2 作者資料顯示排序

3

4

5

6

Subjects

- Artificial Intelligence, Machine Learning, Computer Vision, Natural language processing
- Society and the Computing Profession
- Networks and Communications
- Human Computer Interaction
- Computational Theory, Algorithms and Mathematics
- More (8)

Affiliations

- Carnegie Mellon University (508)
- Massachusetts Institute of Technology (395)
- Stanford University (367)
- University of California, Berkeley (352)
- Microsoft Research (312)
- More (15)

Wei Wang
University of New South Wales

E. Bertino
Purdue University

J Dongarra
The University of Tennessee, Knoxville

J. Han
University of Illinois at Urbana-Champaign

B Shneiderman
University of Maryland

Moshe Y. Vardi
Rice University

❶ 提供下列特定條件，以便限縮過濾作者：

Subjects：主題

Affiliations：所屬機構

ACM Designations：ACM 成員 (member/fellow/senior member/distinguished member)

Geography：國家

Publication Date：文章出版日期

❷ 作者顯示排序項目，預設為 Latest Published (最新出版)，另有下列選項：

Most Published：出版文章最多

Given Name a..Z：名字，由 a 到 Z

Given Name Z..a：名字，由 Z 到 a

Surname a..Z：姓氏，由 a 到 Z

Surname Z..a：姓氏，由 Z 到 a



- ③ **ACM 相關獎項標記**：若作者曾獲得 ACM 相關獎項，或者屬於 ACM 成員 (ACM Fellow)，此處會出現相關的標記
- ④ **作者資訊**：作者的電子郵件信箱資訊，以及作者的網頁連結
- ⑤ **View Profile**：觀看作者的 ACM 個人資訊頁面
- ⑥ **Quick View**：顯示作者個人的資訊快覽

Profile (作者資訊頁面)

點選 Profile，可完整顯示作者的所有資訊，包含計量資料 (如以下範例)

Justin M Solomon Search for Justin M Solomon's work 🔍
 在該作者發表的文章中檢索

Home > Justin M Solomon

Justin M Solomon
 Massachusetts Institute of Technology · Stanford University · MIT Computer Science and Artificial Intelligence Laboratory

① **Most frequent co-Author**: Adrian Butscher, Stanford University

② **Most cited colleague**: Leonidas John Guibas, Stanford University

③ **Last year's Top subject**: Computer graphics

④ **Last year's Top keyword**: Hexahedral meshing

⑤ **Most frequent Affiliation**: Massachusetts Institute of Technology, 14 Papers

Bibliometrics

Average Citation per Article	Citation count	Publication counts	Publication Years	Available for Download	Average Downloads per Article	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)
17.419	749	43	2007 - 2020	31	570.129	1,303	5,483	17,674

此作者的計量資訊

⑥ **Subject Areas**: Computational geometry, Project and people management, Document types, Randomness, geometry and discrete structures, Point-based models, Machine learning, Design and analysis of algorithms, Neural networks.

⑦ **Published Items by Year**: Bar chart showing publication counts from 2007 to 2020. Peak in 2017 (6 items).

⑧ **Keywords**: 1,35 (Computer Graphics), Computational Geometry and Object Modeling, Geometric Algorithms, Shape analysis, languages and systems, optimal transportation, singularity graph, shape matching.

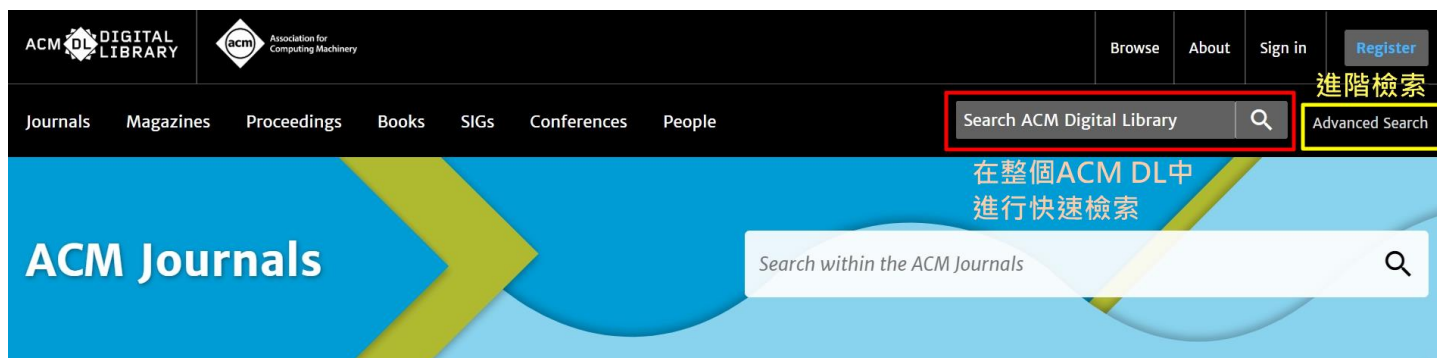
⑨ **Colleague Collaboration**:

Adrian Butscher	7
Mirela Ben-Chen	6
Leonidas J Guibas	5
David Bommes	3
Gabriel Peyré	3
Sebastian Claiici	3
Vladimir Kim	3
Eitan Grinspun	2

- ① **Most frequent co-Author**：最常合作的合作者
- ② **Most cited colleague**：最常被引用的合作者
- ③ **Top subject**：投稿文章最常見的主題
- ④ **Last year's Top Keywords**：去年最常用的關鍵字 (關鍵字是作者自行給予)
- ⑤ **Most frequent Affiliation**：作者最常投稿時所屬的機構
- ⑥ **Subject Area**：文章所屬主題
- ⑦ **Published Items by Year**：文章出版年份
- ⑧ **Keywords**：作者自行給予文章的關鍵字
- ⑨ **Colleague Collaboration**：文章合作的合作者

檢索功能

ACM Digital Library 中的檢索，分為**快速檢索**(Quick Search)與**進階檢索**(Advanced Search)兩種，在 ACM Digital Library 的首頁，以及每一個 ACM Digital Library 的頁面的右上方，均會顯示快速檢索框，以及進階檢索的連結，如下圖所示。



Advanced Search (進階檢索)

Advanced Search

Search

Search anything within the ACM Digital Library or go to your [Saved Searches](#)

Search items from:

The ACM Full-Text collection ▼ ⓘ **1**

Search Within ⓘ **2**

Anywhere ▼ Enter Search term +

Filters ⓘ

Published in ▼ Match All ▼ Enter Search term +

Publication Date ⓘ **3**

All dates

Last

Please Select ▼

Custom range

From: Select Month ▼ Select Year ▼

To: Select Month ▼ Select Year ▼

按 + 可以增加檢索欄位

- 1 設定檢索 ACM 僅含全文的內容，或包含書目資料的部份 (ACM Guide to Computing Literature)
- 2 設定檢索的欄位 (ex: 文章題名,作者...等)，或設定限定條件 (ex: 出版於某期刊, 經費來源單位...等)
- 3 限定出版品的年月



檢索技巧

1. 布林邏輯

可使用布林爾運算元符 AND, OR 和 NOT 來縮小或擴大搜索結果。

在預設的情況下，除非在編輯查詢輸入中，指定其他運算符，否則在“Search Within”之間會假定為 AND 關係。

2. 檢索詞組

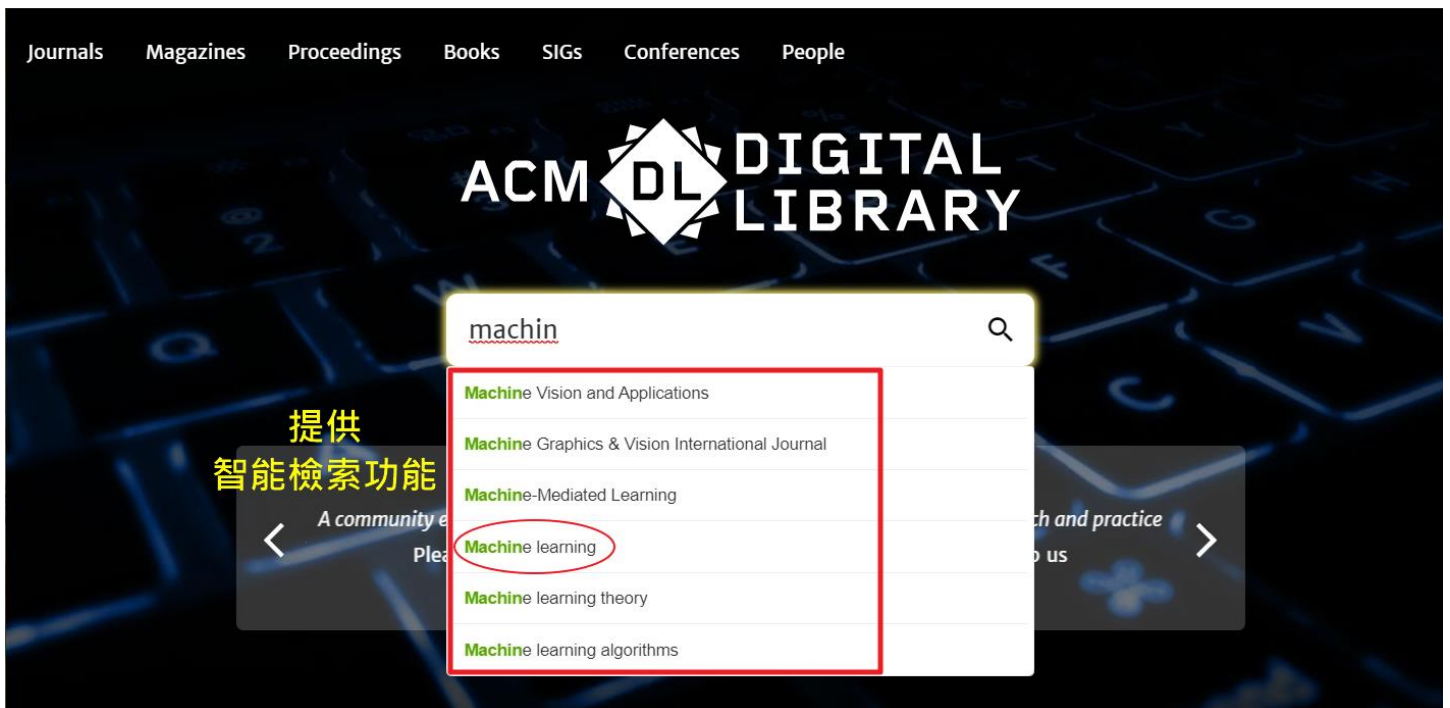
將詞組放在引號 “ ” 中，以檢索與該詞組完全相符的結果。

3. 通配符

- 使用星號 * 指定任意數量的未知字符。例如，如果您搜索 comput *，搜索引擎將提供包含 comput 單詞的結果，例如 compute, computing, computing 等。
- 使用問號 ? 指定任何單個未知字符。例如，如果您搜索 compute ?, 搜索引擎將提供如 computer 或 computed 之類的詞的結果，而不包 computers，因為問號僅代表一個字符。
- 注意：在搜索詞的開頭，或在引號內搜索短語時，不能使用通配符。

檢索範例

以 machine learning 為例，在首頁快速檢索框內，輸入檢索詞彙後，按下放大鏡按鈕，執行檢索。



檢索結果畫面

The screenshot shows the ACM Search Results interface. At the top, there is a search bar with the text "Search 在快速檢索結果中，進行二次檢索" and a magnifying glass icon. Below the search bar, there are buttons for "41,358 Results", "Edit Search", and "Save Search". The page is divided into several sections: "Applied Filters" on the left, "RESULTS" in the center, and "VIDEOS", "SOFTWARE", "DATASET", and "PEOPLE" as tabs. The "RESULTS" section shows a list of search results, including "Session details: Session 6: Machine Learning for Physical Design (part 2)" and "Session details: Session 3: Machine Learning for Physical Design (part 1)". The "Applied Filters" section has a dropdown menu for "Machine Learning" and a "Clear All" button. The "RESULTS" section has a "Select All" checkbox and a "Relevance" dropdown menu. The "VIDEOS", "SOFTWARE", "DATASET", and "PEOPLE" tabs are also visible.

Search Results

Search 在快速檢索結果中，進行二次檢索

檢索結果數量 重新設定檢索 擴展檢索結果至在DL中僅含書目資料的部份

41,358 Results Edit Search Save Search

Searched The ACM Full-Text Collection (587,262 records) Expand your search to The ACM Guide to Computing Literature (2,798,803 records)

Applied Filters

Machine Learning

Clear All

RESULTS VIDEOS SOFTWARE DATASET PEOPLE

Showing 1 - 20 of 41,358 Results

per page: 10 20 50 Relevance

檢索結果類型

勾選檢索結果

檢索結果顯示依據

利用系統預設條件縮限檢索結果

Initial Search Conditions

People

Names

Institutions

Authors

Editors

Reviewers

Publications

Journal/Magazine Names

Proceedings/Book Names

All Publications

Content Type

Media Formats

Paper Award

Publisher

SECTION

Session details: Session 6: Machine Learning for Physical Design (part 2)

Ismail Bustany

ISPD '20: Proceedings of the 2020 International Symposium on Physical Design • March 2020 • <https://doi.org/10.1145/3389222>

SECTION

Session details: Session 3: Machine Learning for Physical Design (part 1)

Patrick Groeneveld

ISPD '20: Proceedings of the 2020 International Symposium on Physical Design • March 2020 • <https://doi.org/10.1145/3389218>

RESEARCH-ARTICLE

ISPD 2020 Physical Mapping of Neural Networks on a Wafer-Scale Deep Learning Accelerator

Michael James, Marvin Tom, Patrick Groeneveld, Vladimir Kibardin

ISPD '20: Proceedings of the 2020 International Symposium on Physical Design • March 2020, pp 145-

系統預設縮限檢索結果條件有下列幾項：

People

Publication

Conferences

Reproducibility Badges (關於通過 ACM 論文額外審閱程序的標記，有數種)

Publication Date

(※關於 Reproducibility Badges 的完整說明，可參考 <https://www.acm.org/publications/policies/artifact-review-badging#functional>)

檢索結果顯示預設為依照相關性(Relevance)排列，檢索結果顯示有下列選項：

Relevance：相關性

Earliest：出版年代最早

Latest：出版年代最新

Downloaded：下載數 (高至低)

Cited：引用數(高至低)



勾選檢索結果：可儲存文章至個人資料夾(binder) [個人化功能]，或是匯出文章的書目資料（提供三種格式：BibTex/EndNote/ACM Ref）

匯出所勾選文章的書目資料 (個人化功能) **儲存所勾選文章**

per page: 10 20 50 | Downloaded ▾

[Export Citations](#) [Save to Binder](#)

游標移到此處可顯示文章的計量資料

PROCEEDING **KDD '06: Proceedings of the 12th ACM SIGKDD international conference on Knowledge discovery and data mining**
Tina Eliassi-Rad, Lyle Ungar, Mark Craven, Dimitrios Gunopoulos
This volume serves as the written record of the Twelfth ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD-06) held in Philadelphia, Pennsylvania on August 20- 23, 2006. The KDD conference provides a forum for novel research ...
10,490 161,575

PROCEEDING **KDD-2004**
Proceedings of the 10th ACM SIGKDD International Conference on Knowledge Discovery and Data Mining
August 22-25, 2004, Seattle, Washington, U.S.A.
Total Citations 10,490
Total Downloads 161,575
Last 12 Months 6,331
Last 6 weeks 1,605



文章頁面

點選檢索結果的文章題名，可進入到文章頁面，如下圖所示

The screenshot shows the article page for "DeepFovea: neural reconstruction for foveated rendering and video compression using learned statistics of natural videos". The page includes a navigation bar at the top with links like "Journal Home", "Latest Issue", "Archive", "Authors", "Affiliations", "Award Winners", "Editors", "Reviewers", "About", and "Contact Us". The article title is prominently displayed, along with the authors' names: Anton S. Kaplanyan, Anton Sochenov, Thomas Leimkühler, Mikhail Okunev, Todd Goodall, and Gizem Rufo. The publication information is "ACM Transactions on Graphics • November 2019 • Article No.: 212". The article is marked as "RESEARCH-ARTICLE" and "OPEN ACCESS". The abstract text is visible, starting with "In order to provide an immersive visual experience, modern displays require head mounting, high image resolution, low latency, as well as high refresh rate. This poses a challenging computational problem. On the other hand, the human visual system can consume only a tiny fraction of this video stream due to the drastic acuity loss in the peripheral vision. Foveated rendering and compression can save computations by reducing the image quality in the peripheral vision. However, this can cause noticeable artifacts in the periphery, or, if done conservatively, would provide only modest savings. In this work, we explore a novel foveated reconstruction method that employs the recent advances in generative adversarial neural networks. We reconstruct a plausible peripheral video from a small fraction of pixels provided every frame. The reconstruction is done by finding the closest matching video to this sparse input stream of pixels on the learned manifold of natural videos. Our method is more efficient than the state-of-the-art foveated rendering, while providing the visual experience with no noticeable quality degradation. We conducted a user study to validate our reconstruction method and compare it against existing foveated rendering and video compression techniques. Our method is fast enough to drive gaze-contingent head-mounted displays in real time on modern hardware. We plan to publish the trained network to establish a new quality bar for foveated rendering and compression as well as encourage follow-up research." The references section lists two papers: 1. Sami Abu-El-Hajja, Nisarg Kothari, Joonseok Lee, Paul Natsev, George Toderici, Balakrishnan Varadarajan, and Sudheendra Vijayanarasimhan. 2016. YouTube-8M: A Large-Scale Video Classification Benchmark. CoRR abs/1609.08675 (2016). 2. Martin Arjovsky, Soumith Chintala, and Léon Bottou. 2017. Wasserstein Generative Adversarial Networks. In Proceedings of the 34th International Conference on Machine Learning (Proceedings of Machine Learning Research), Doina Precup and Yee Whye Teh (Eds.), Vol. 70. PMLR, 214--223. The page also features a sidebar with "ACM Transactions on Graphics Volume 38, Issue 6" and a "PDF" button on the right.

ACM Digital Library 中的文章，總計有以下四種全文格式，但並非每篇章都提供四種全文格式，大部分的文章僅提供兩或三種（範例所提供之全文格式為 eReader 及 PDF 兩種格式）。

1. PDF Format

2. eReader：無須額外安裝軟體，透過瀏覽器網頁線上閱讀，提供外加功能，如文章目次與參考資料連結、線上筆記(透過 REMARQ®服務提供，需另在 REMARQ®註冊)等等。

3. Digital Edition：僅有部分 ACM Magazines 提供 Digital Edition 格式全文

4. HTML Format

參考書目提供對外連結透過 Google Scholar 與 CrossRef。有 ACM DL 圖示者 表示在 DL 內有全文。



ACM Transactions on Graphics
Volume 38, Issue 6
← Previous Next →

Abstract
References
Supplemental Material
Index Terms
Comments

ACM DL DIGITAL LIBRARY

Supplemental Material 補充資料

video

a212-kaplanyan.mp4
MP4
466.4 MB

Play stream Download

Available for Download

zip a212-kaplanyan.zip (460.1 MB)

Supplemental files.

Index Terms

DeepFovea

Computing methodologies

Computer graphics Machine learning

Recommended

The relightables: volumetric performance capture of humans with realistic relighting
We present "The Relightables", a volumetric capture system for photorealistic and high quality relightable full-body performanc...
[Read More](#)

Interactive reconstruction of Monte Carlo image sequences using a recurrent denoising autoencoder
We describe a machine learning technique for reconstructing image sequences rendered using Monte Carlo methods. Our...
[Read More](#)

PDF Help

Feedback

ACM 個人帳戶

註冊 ACM 個人帳戶

- ※ **請留意**：ACM Web account 登入需輸入 Username (在建立帳戶時系統會自動產生)，Username 並非註冊時所輸入的電子郵件地址，因此請您留意建立帳戶完後所收到的 email 通知，email 中會包含 Username 資料。
- ※ **遠端登入認證**：建立 ACM Web account 後，請先在機構的 IP address 之下，登入一次 ACM web account，之後即可在機構外(非機構 IP address 之下)，透過登入 ACM Web account，而可使用機構的 ACM DL 訂閱內容，此遠端認證可維持 6 個月。6 個月後需重新在機構的 IP address 之下，再次登入 ACM web account，則遠端認證可再維持 6 個月。

1. 點選 ACM 首頁(<https://dl.acm.org/>)右上方的 Register

ACM DL DIGITAL LIBRARY Association for Computing Machinery

Browse About Sign in **Register**

Journals Magazines Proceedings Books SIGs Conferences People

ACM DL DIGITAL LIBRARY

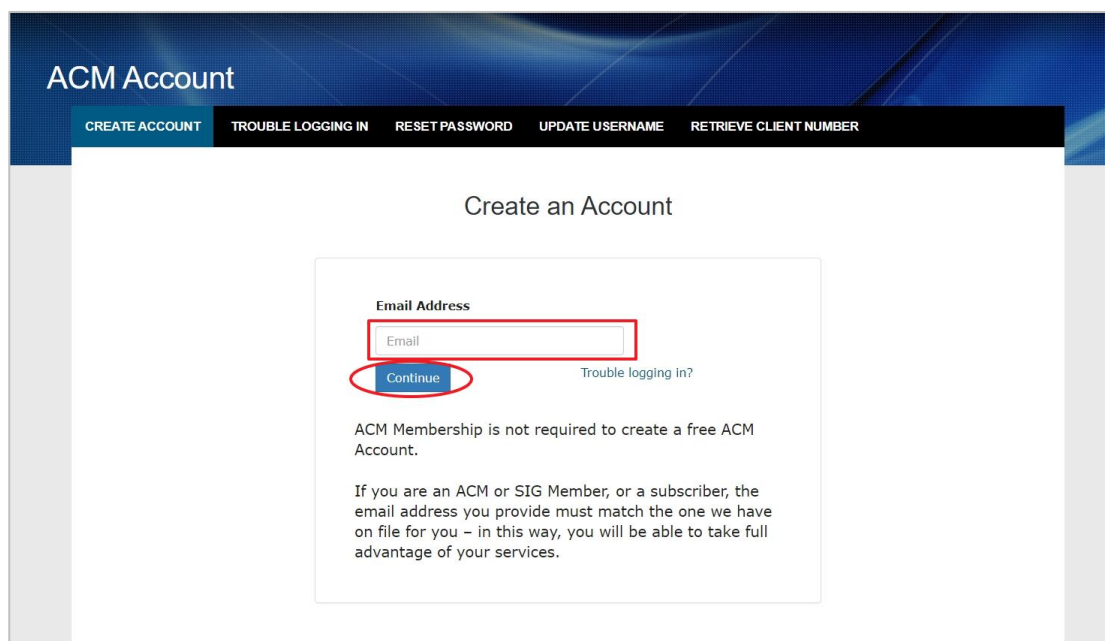
Search

Advanced Search

Welcome to the ACM Digital Library
A community engaged with a repository of resources to support computing research and practice
Please explore and use the [Feedback] button on any page to help us shape the new site.

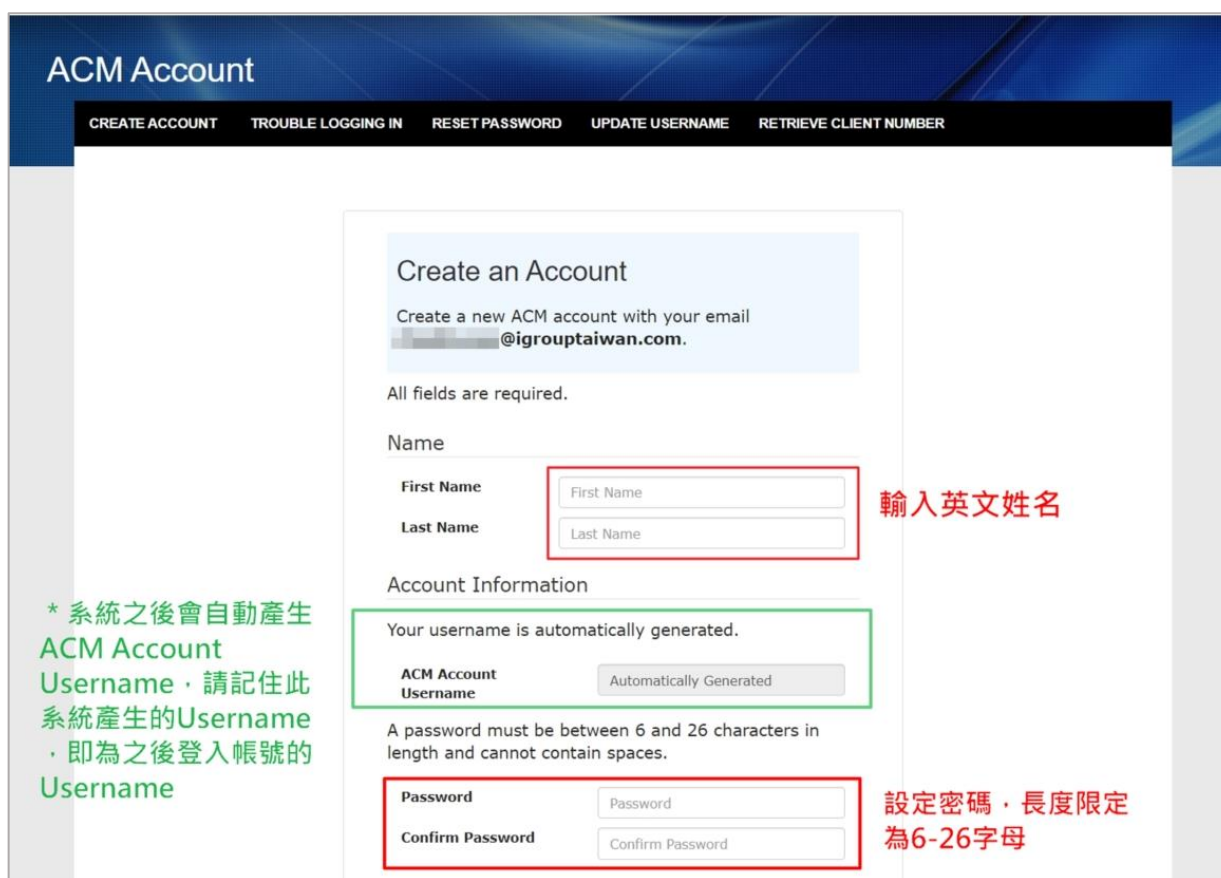


2. 輸入要建立 ACM account 要使用個人的機構 email address (需能收到系統發出的確認信)之後, 按下 Continue 按鈕。



The screenshot shows the 'ACM Account' creation interface. At the top, there is a navigation bar with links: CREATE ACCOUNT, TROUBLE LOGGING IN, RESET PASSWORD, UPDATE USERNAME, and RETRIEVE CLIENT NUMBER. The main heading is 'Create an Account'. Below this, there is a form with an 'Email Address' label and an input field containing 'Email'. A red box highlights the input field, and a blue circle highlights the 'Continue' button. To the right of the button is a link 'Trouble logging in?'. Below the form, there is a note: 'ACM Membership is not required to create a free ACM Account. If you are an ACM or SIG Member, or a subscriber, the email address you provide must match the one we have on file for you - in this way, you will be able to take full advantage of your services.'

3. 依照網頁上的指示, 依序填寫英文姓名、設定密碼、以及設定忘記密碼時提示問題與答案, 填寫完後按下 Continue 按鈕。



The screenshot shows the 'ACM Account' creation interface. At the top, there is a navigation bar with links: CREATE ACCOUNT, TROUBLE LOGGING IN, RESET PASSWORD, UPDATE USERNAME, and RETRIEVE CLIENT NUMBER. The main heading is 'ACM Account'. Below this, there is a form with the following sections:

- Create an Account**: Create a new ACM account with your email [redacted]@igrouptaiwan.com.
- All fields are required.**
- Name**:
 - First Name**: Input field with a red box around it.
 - Last Name**: Input field with a red box around it.
- Account Information**:
 - Your username is automatically generated.
 - ACM Account Username**: Input field with the text 'Automatically Generated'.
 - A password must be between 6 and 26 characters in length and cannot contain spaces.
 - Password**: Input field with a red box around it.
 - Confirm Password**: Input field with a red box around it.

Annotations in red text:

- 輸入英文姓名 (Input English name) - points to the First Name and Last Name fields.
- 設定密碼, 長度限定為6-26字母 (Set password, length limited to 6-26 letters) - points to the Password and Confirm Password fields.

Annotation in green text:

- * 系統之後會自動產生 ACM Account Username, 請記住此系統產生的Username, 即為之後登入帳號的Username (The system will automatically generate an ACM Account Username. Please remember the Username generated by the system, which is the Username for logging in later.) - points to the 'ACM Account Username' field.

Security Question and Answer

Set a question and answer for your account. Your answer is case-sensitive.

Keep your question and answer combination confidential: if you forget your password, you'll be able to reset it by answering your security question correctly.

Question

Answer

設定忘記密碼時的提示問題與答案，答案字母大小寫有區別

4. 接下來網頁會顯示系統自動稱成的 username，此 username 即為日後登入 ACM Digital Library 個人帳戶的 username，請記下此 username。系統同時會發送包含帳戶確認鏈結的確認 email，到初始註冊時的 email 信箱中。

ACM Account

CREATE ACCOUNT TROUBLE LOGGING IN RESET PASSWORD UPDATE USERNAME RETRIEVE CLIENT NUMBER

Your New ACM Account Information

An ACM Account has been created for you with this username:

系統會自動產生username，此即為日後登入Username

An email message, with a link to confirm your request for this account, will arrive at your email momentarily.

If you don't receive the email within a few minutes, [click here to resend it.](#)

Return to: idp.acm.org/

5. 在各位初始註冊時所填入的 email 信箱，會收到類似下列 email 通知(完成 ACM account 設定)。請依照 email 中指示，點擊鏈結。

File Edit View Go Message Events and Tasks Tools Help

台科大 FW: (台科大) Fwd: (台科大)

Get Messages Write Address Book Tag Quick Filter Calendar Tasks Search

From: ACMAccountNotify
Subject: Complete Your ACM Account
To: Kevin Klein

Please follow this link to complete setting up your account:

<https://accounts.acm.org/verify.cfm?ticket=FA9C1816ED29FCDF9CF23C828AC2DB74&ticket2=01DFE1813D12B58E33DFB0ZSCEFXXGER>

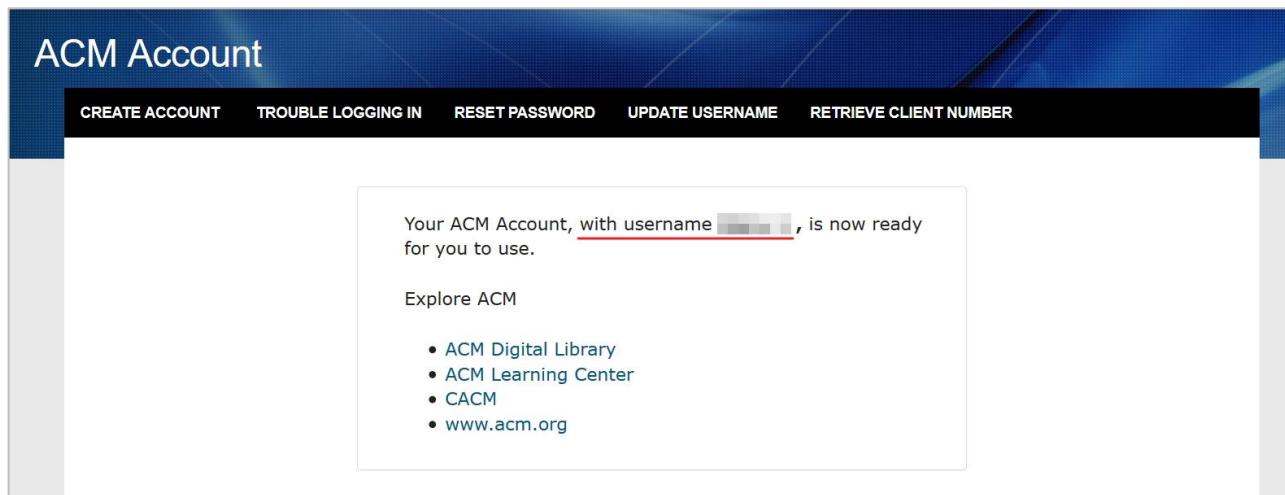
Please do not reply to this email. It is generated automatically, and replies will not reach a human reader. Please send your reply to ACM Member Services, at acmhelp@acm.org, instead, and a Member Services Representative will assist you.

ACM Member Services
acmhelp@acm.org
1-800-342-6626 (USA and Canada)
+1-212-626-0500 (Global)

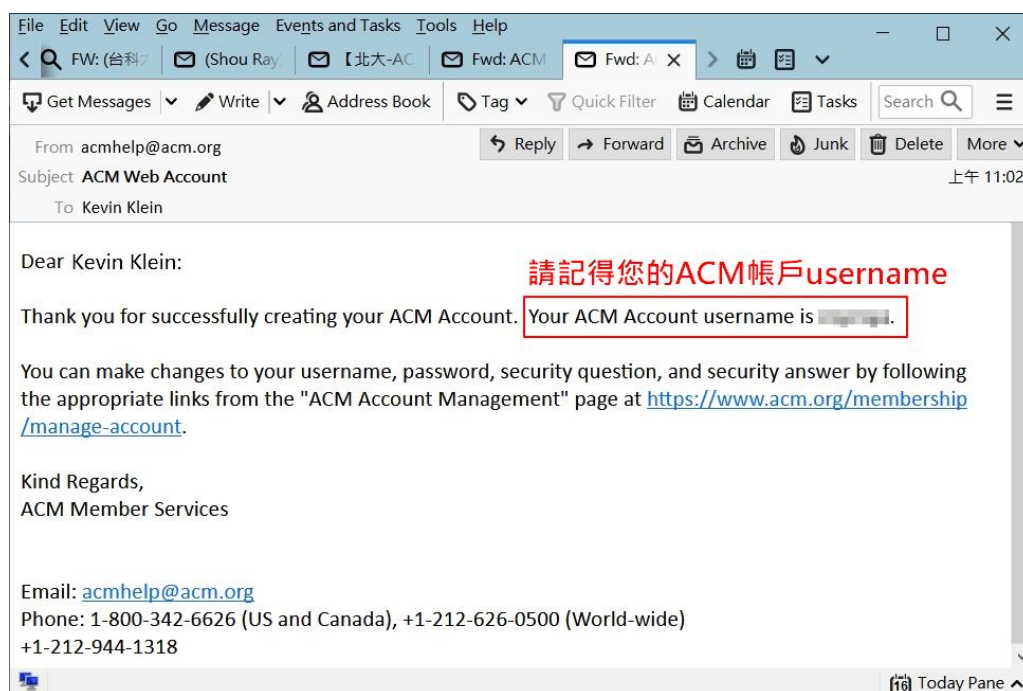
Today Pane



6. 點擊鏈結後，會顯示下列網頁資訊 (網頁上會再次顯示 username 資料)，即可完成創建 ACM account。

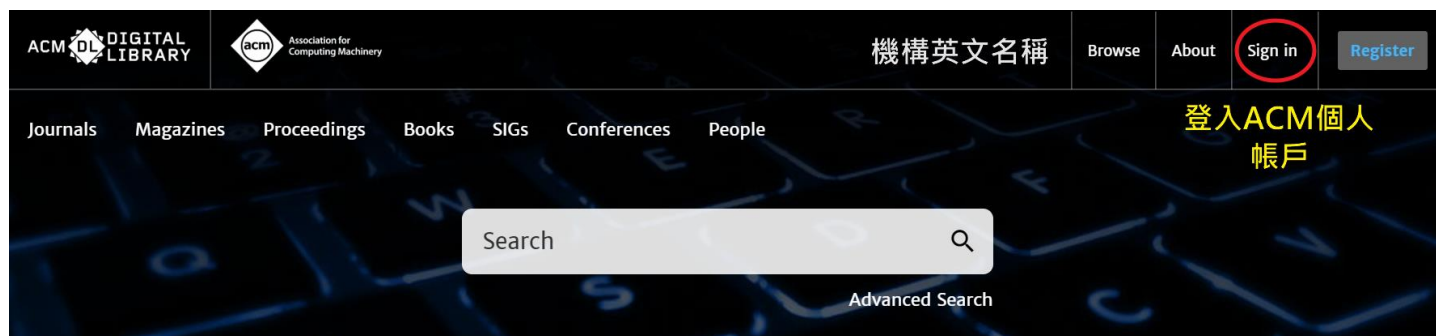


同時也會收到 ACM Web account 已成功設立的通知信。

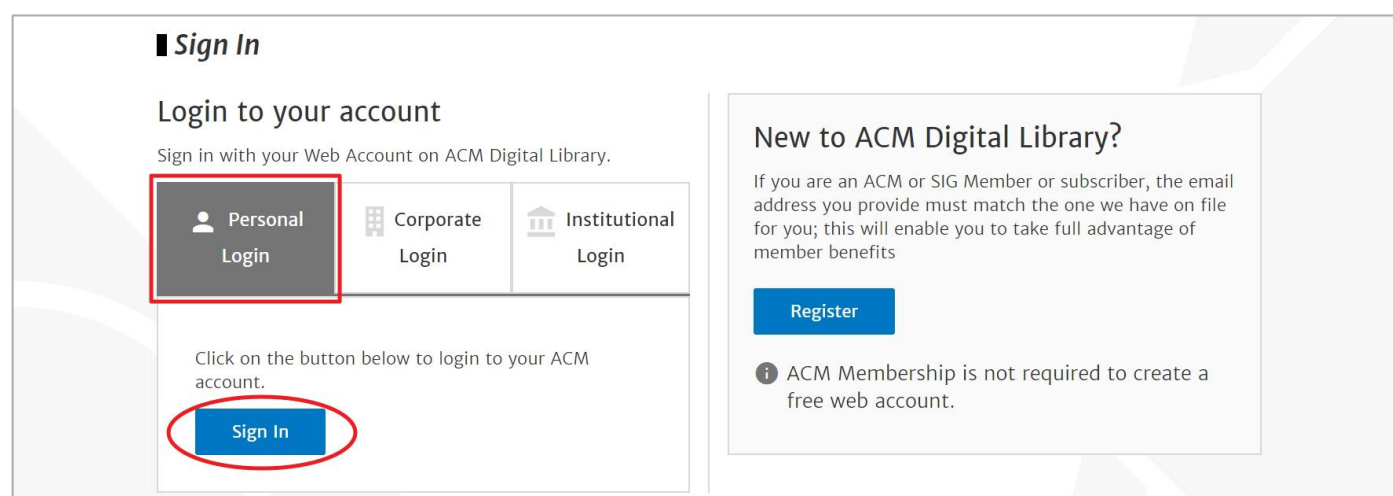


登入 ACM 個人帳戶

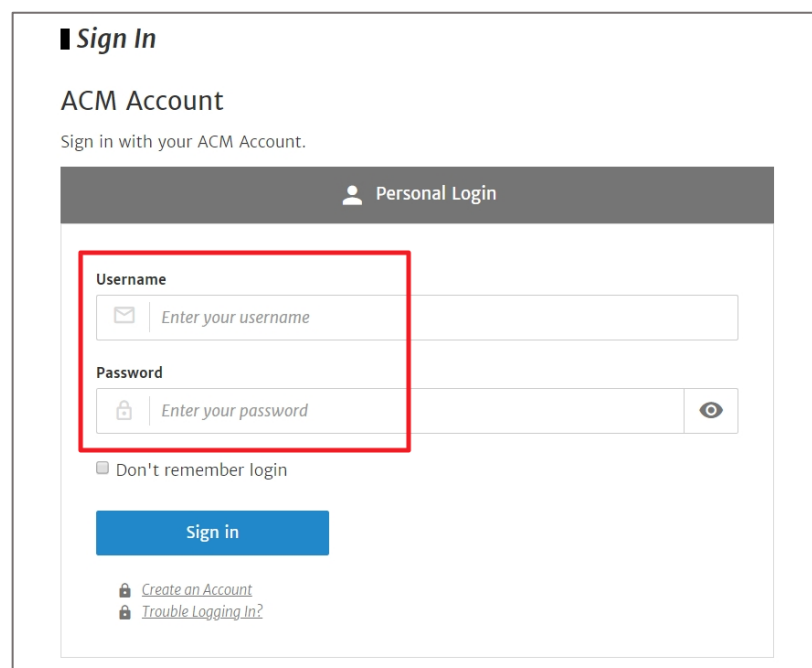
在 ACM Digital Library 網站任一頁面的右上方，點選 Sign in



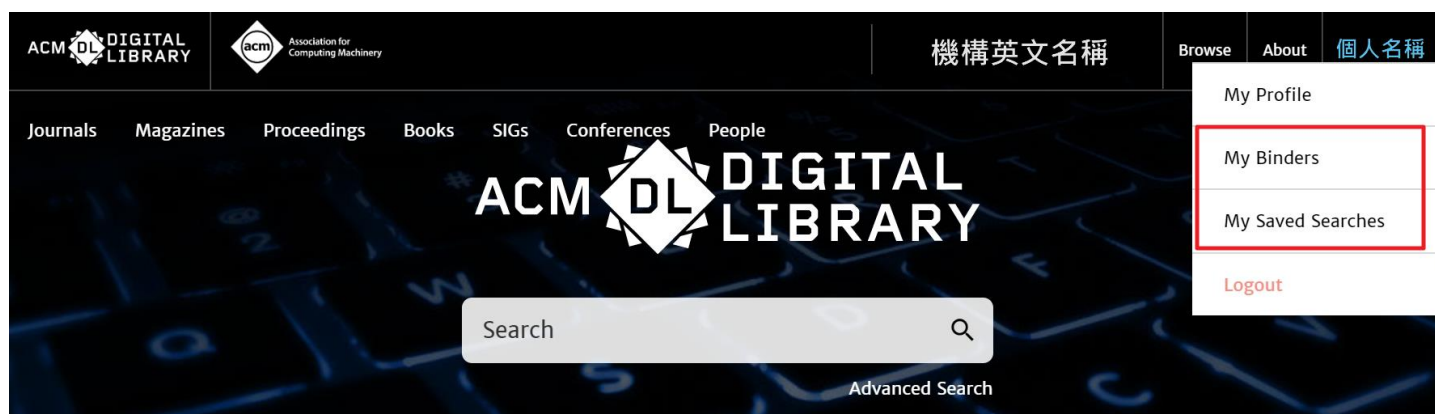
接著網頁會出現三種登入選項，請在 Personal Login 之下再點選 Sign In



輸入先前註冊帳戶時，由系統所產生的 Username，以及自行設定的 Password 後，按下 Sign in 登入 ACM 個人帳戶。

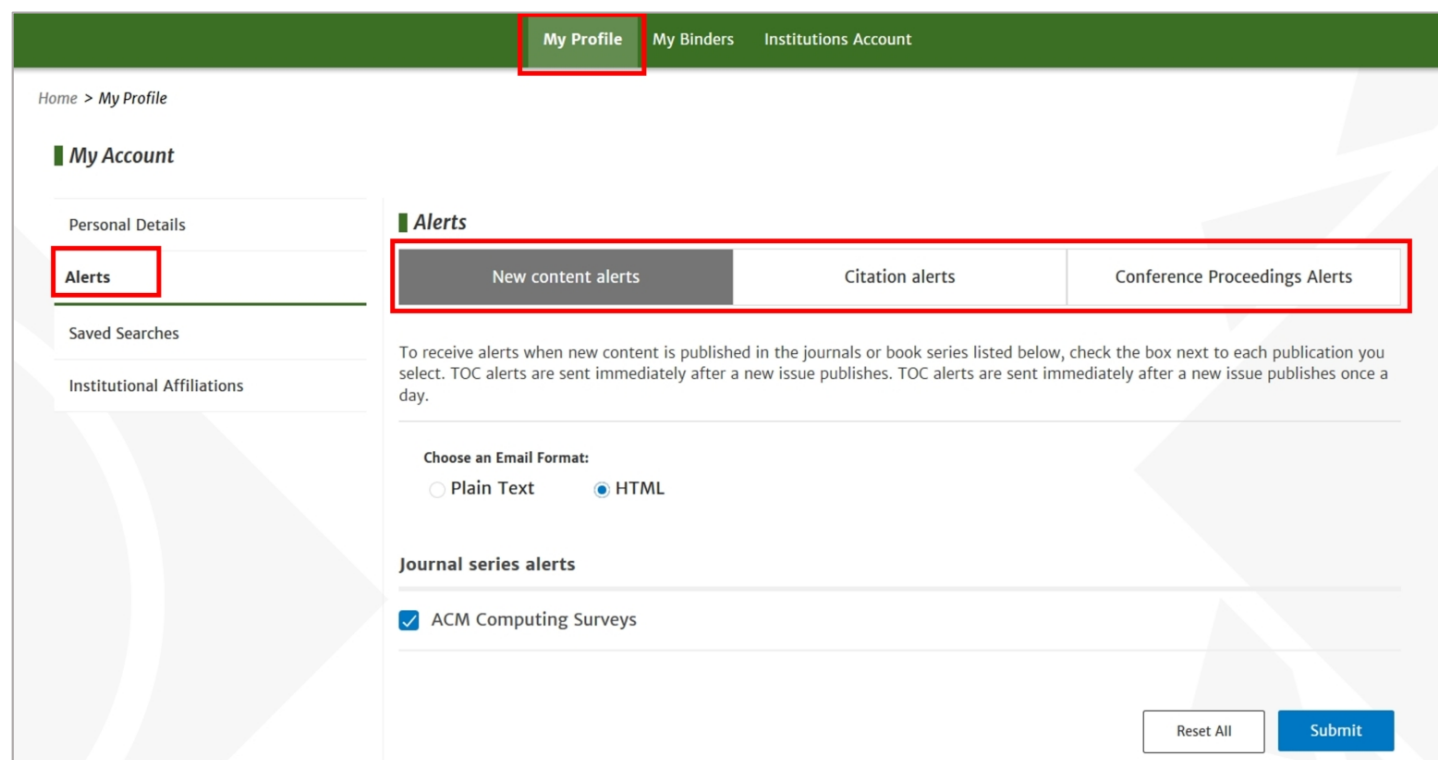


登入後在網頁右上角會顯示個人名稱，點擊個人名稱後，會出現如下圖所示四個選項，分別簡介如下



My Profile 頁面

點選 My Profile 之下的左方的 Alerts，可管理所訂閱的各種通知



My Binders 頁面

可在此處建立資料夾，分類管理自己所儲存的文章，或選擇與他人分享自己所建立的資料夾內容。

欲選擇與他人分享資料夾，需輸入接受分享者的電子郵件信箱(對方必須用此電子郵件信箱建立 ACM 個人帳戶)，發出邀請 email，待對方登入 ACM 個人帳戶後，即可看到自己所分享資料夾中的文章目錄。接受分享者若想要閱讀文章全文，仍舊有機構訂閱 ACM Digital Library，或個人具備 ACM 會員資格，才可閱讀全文。



My Profile **My Binders** Institutions Account

Home > My Binders

My Binders [+ Create a New Binder](#) 建立新資料夾
(在儲存文章時亦可同時建立新資料夾)

Name	Description	Last Modified	Tools
My Reading List	系統預設資料夾 My most recently downloaded articles.	Mar 5, 2020 Me	與他人分享資料夾 複製資料夾
System	No description	Mar 22, 2018 Me	” [Share] [Copy] [Delete]
iPhone	No description	Sep 24, 2014 Me	” [Share] [Copy] [Delete]
Cloud	No description	Sep 24, 2014 Me	” [Share] [Copy] [Delete]
Games	他人所分享的資料夾	Mar 22, 2018 [Email]@igrouptaiwan.com	” [Share] [Copy] [Close]

My Saved Searches 頁面

在此頁面可管理曾經儲存的檢索策略。在儲存檢索策略時，即可設定發送新檢索結果 email 通知的頻率 (Never/Daily/Weekly/Monthly)，日後可在此處修改或刪除。

My Profile **My Binders** Institutions Account

Home > My Profile

My Account

- Personal Details
- Alerts
- Saved Searches**
- Institutional Affiliations

Saved Searches

Saved Search Name	Frequency	Saved on	Last run on	
[All: machine learning] AND [Publication Date: Past 2 years]	Monthly	Mar 5, 2020	Mar 5, 2020	Run [Delete]
All: cloud storage	Weekly	Mar 5, 2020	Mar 5, 2020	Run [Delete]

