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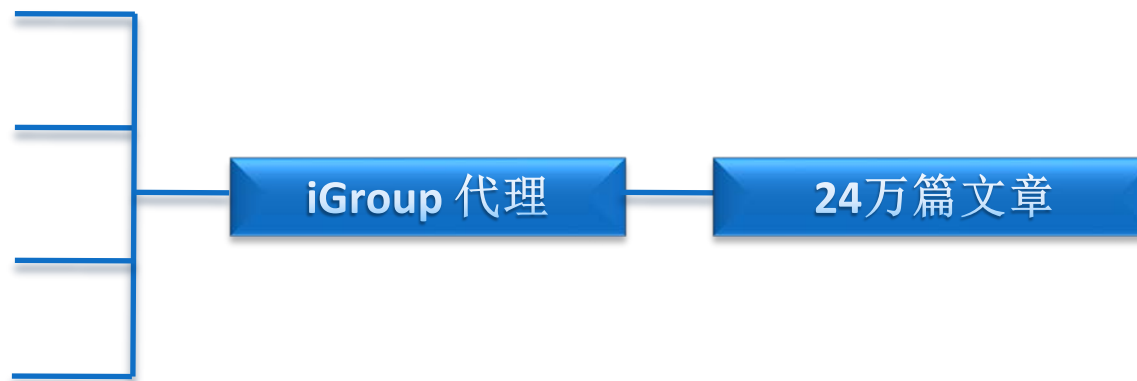
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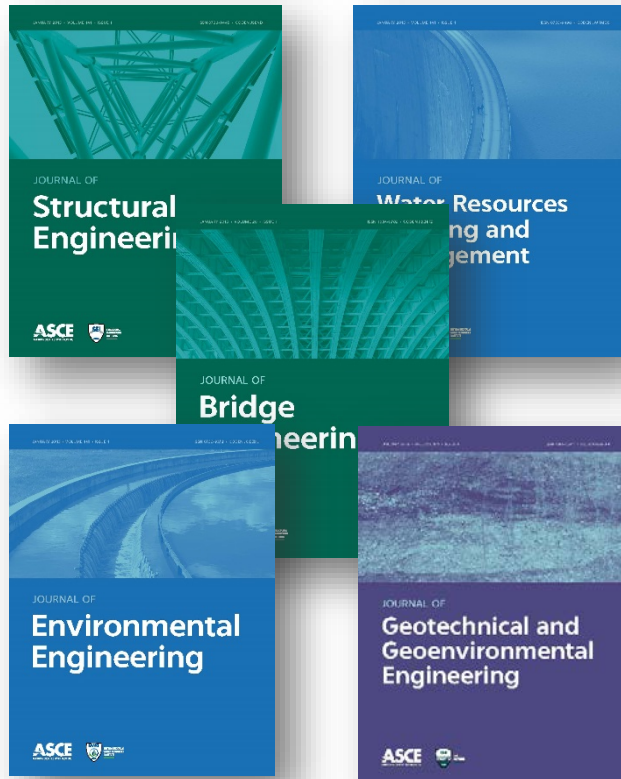




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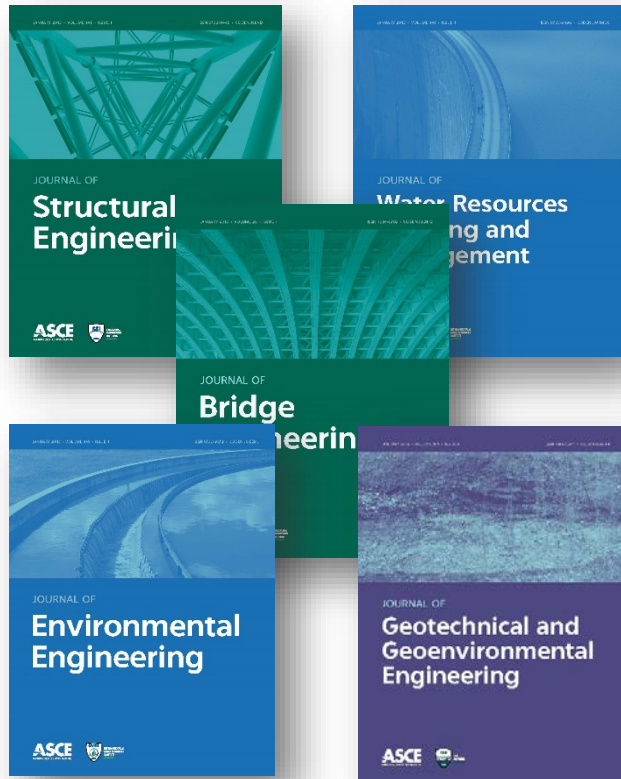
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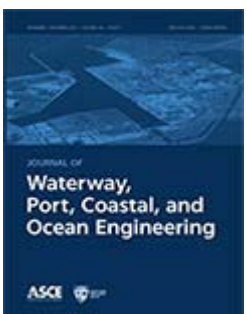
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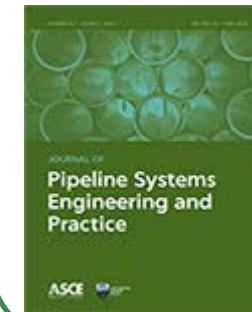
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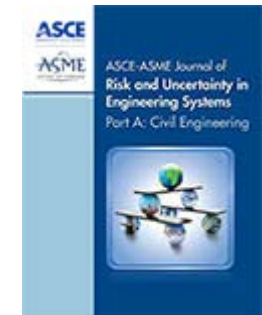
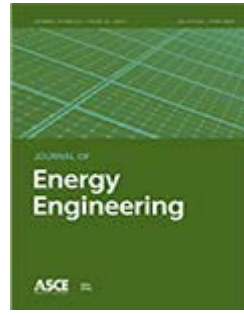
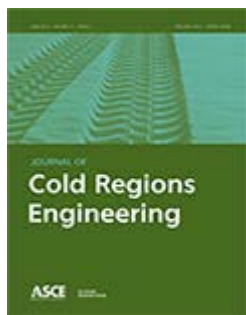
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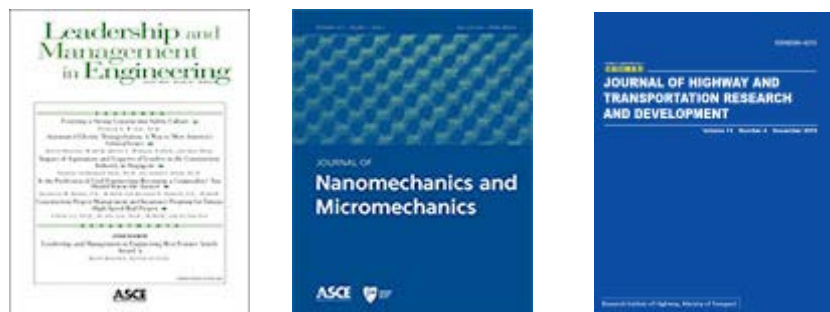
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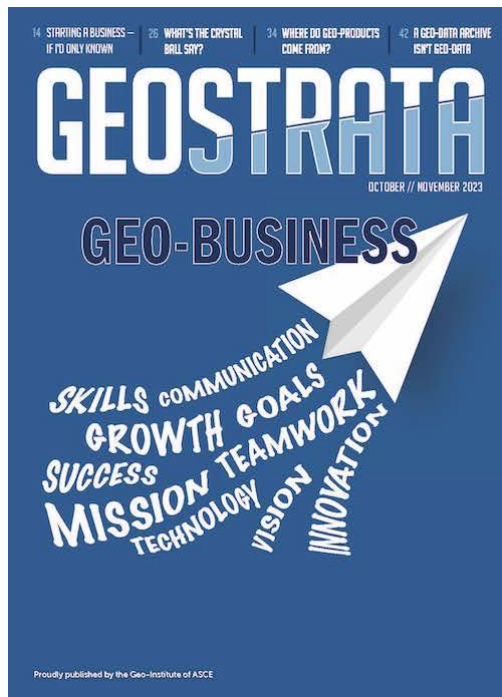
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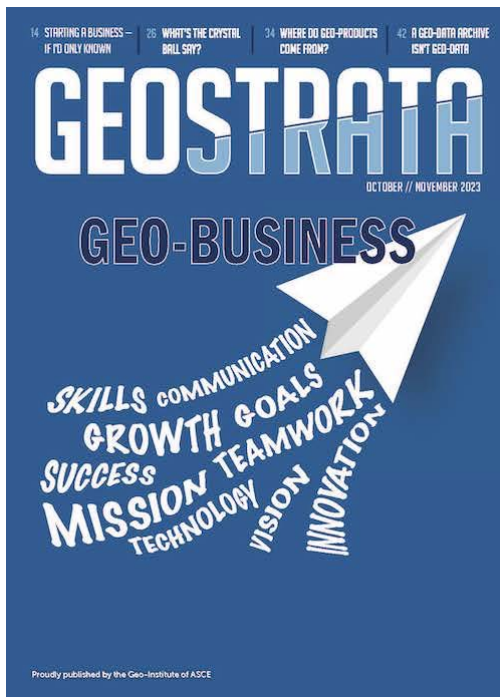
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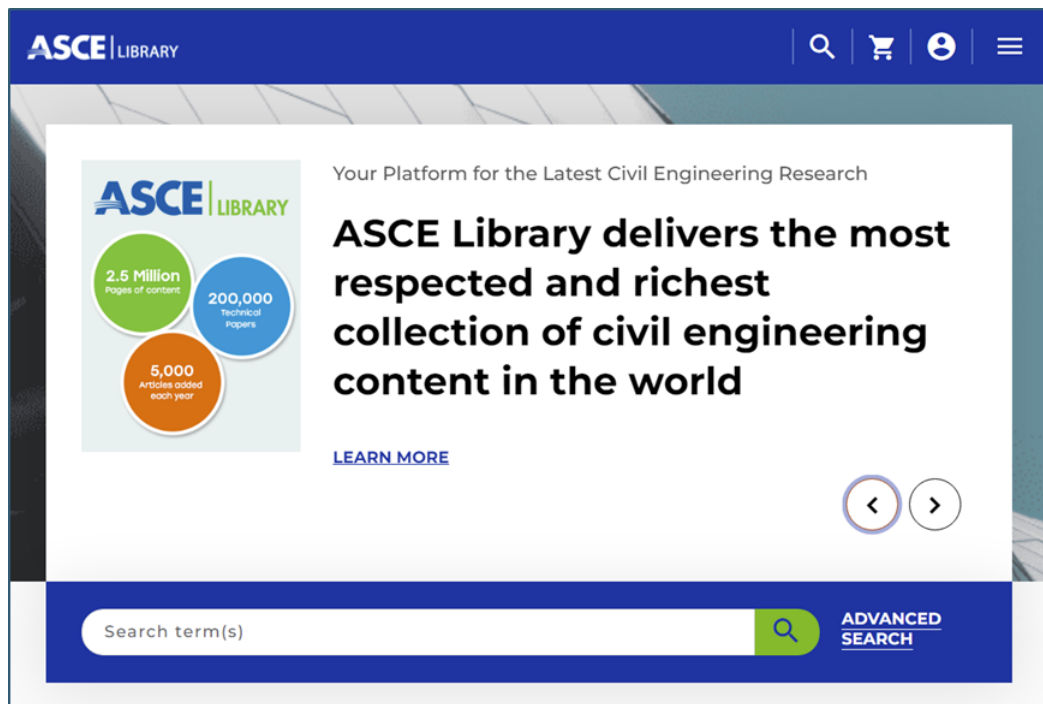
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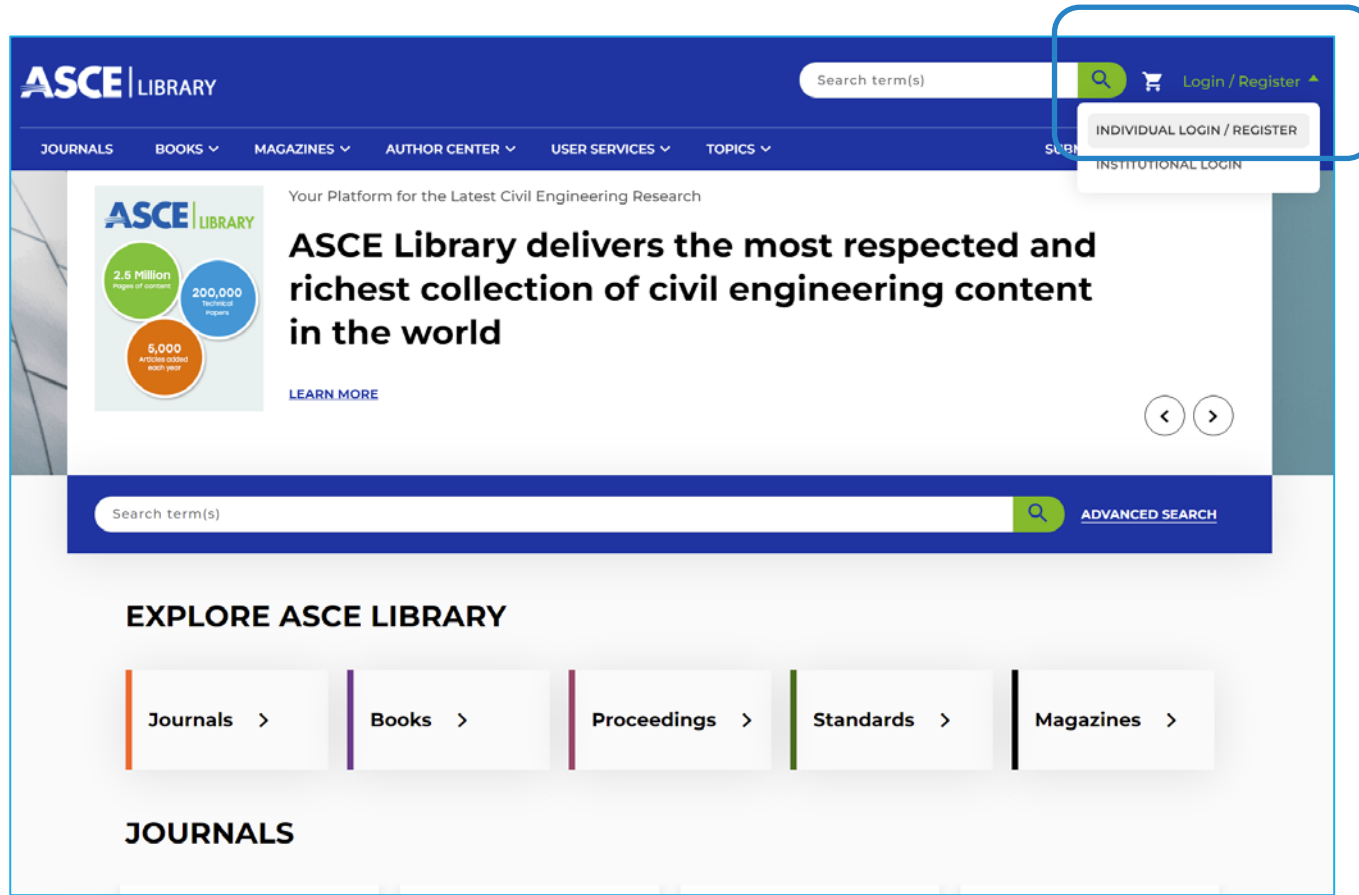
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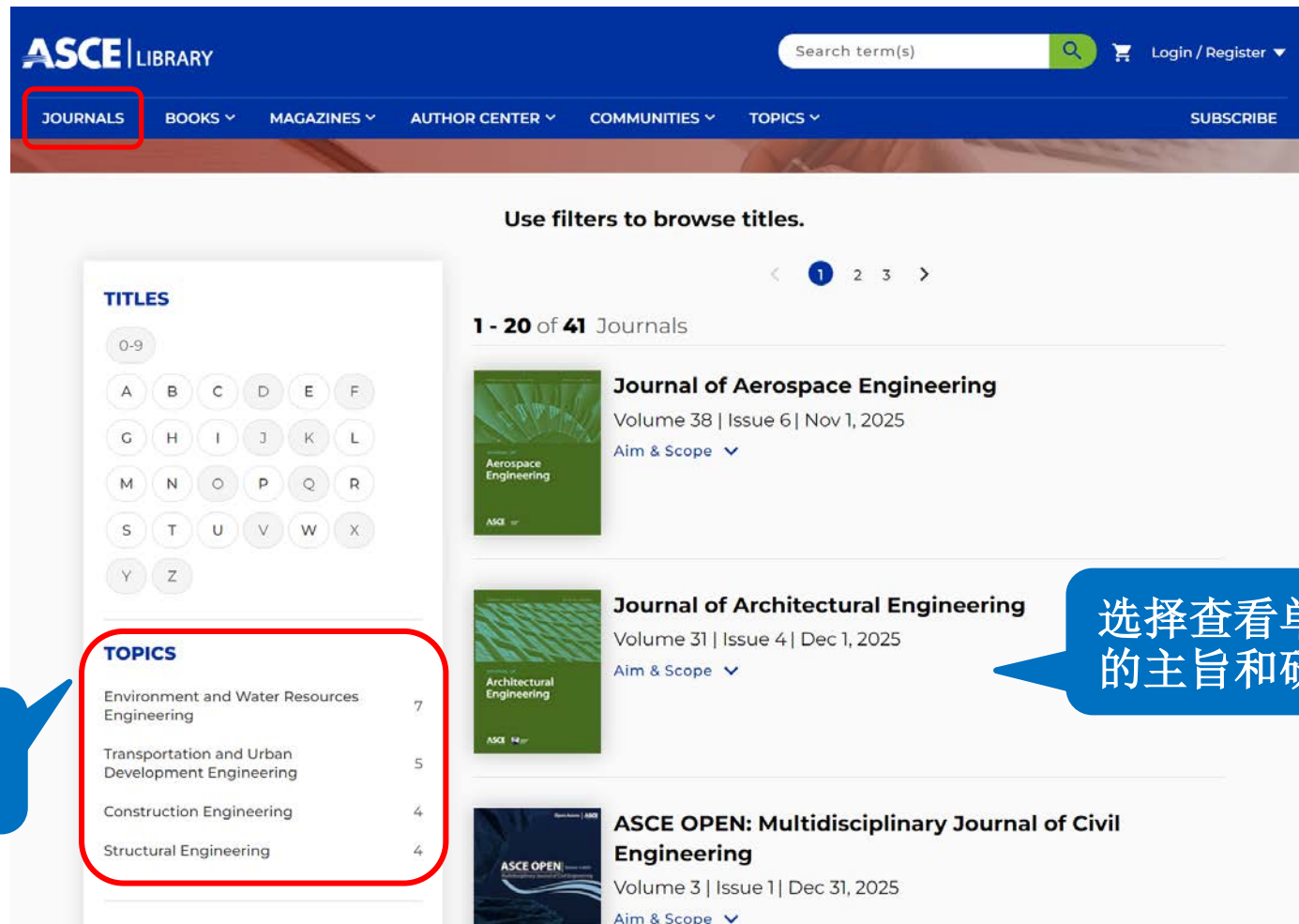
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## Modular Construction: Determining Decision-Making Factors and Future Research Needs

Authors: Mohamad Abdul Nabi, S.M.ASCE and Islam H. El-adaway, F.ASCE [AUTHOR AFFILIATIONS](#)

Publication: Journal of Management in Engineering • Volume 36, Issue 6 • [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000859](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000859)

3,317 / 46 PDF

作者单位信息和联系方式

### Abstract


With a compound annual growth rate of 5.69%, the modular construction market is forecasted to increase to a market value of \$154.8 million by the end of 2023. Traditional stick-built construction and modular construction differ in many aspects including design, engineering, collaboration requirements, logistics, and others. Available research efforts tried to study and model the complex modular construction processes. However, they seemed to fall short in investigating modular construction processes in a comprehensive and holistic manner. In effect, the currently used decision-making models and processes for modular construction do not necessarily reflect the diverse and multiple interconnected and associated factors. This paper develops a comprehensive list of decision factors as well as determines future research needs for modular construction. As such, the authors (1) conducted a systematic literature review and analysis of modular construction studies that were conducted between 2009 and 2019, (2) highlighted the broad factors affecting decision-making in modular construction projects, and (3) utilized social network analysis (SNA) to quantitatively identify the literature gaps and strengths and create a roadmap for the factors that need further investigation. This paper identified 50 decision factors affecting the various modular construction operations in the construction industry. Consequently, it was revealed that there are some understudied decision factors, including those related to legal and regulatory considerations, material and construction waste management, green practices, as well as commissioning and testing. Further, it was shown that there is an explicit absence of the decision models and frameworks that simultaneously incorporate


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**Journal of Management in Engineering**  
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Nov 2022

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**Use of LinkedIn Data and Machine Learning to Analyze Gender Differences in Construction Career Paths**

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Paul J. Hickey, Abdolmajid Erfani and Qingbin Cui

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## Use of LinkedIn Data and Machine Learning to Analyze Gender Differences in Construction Career Paths

Paul J. Hickey<sup>1</sup>; Abdolmajid Erfani<sup>2</sup>; and Qingbin Cui, A.M.ASCE<sup>3</sup>

Men follow distinctively different paths to achieve executive engineering leadership positions in the US construction (AEC) industry? Using Engineering News Record's (ENR's) 2019 Top 400 list, this research over 2,800 executives to assess career differences between genders. Statistical comparisons of important number of companies, titles, education, and network size, revealed a significant impact of gender on individual paths that men ascend to leadership with a single firm throughout their career, outpacing women almost fourfold from forest (RF) as an ensemble classifier, researchers successfully predicted profile gender with accuracy of 88% for testing samples. Collating and categorizing the activities and milestones of individual and collective career paths, including successful experiences, skills, and choices to reach leadership roles. This creates a roadmap for current and future professionals to model their own vocational journey and accelerate progression up the corporate ladder. From an individual perspective, this research provides a framework for professionals to explore the proven wide-ranging benefits of diversity. **DOI: 10.1061/(ASCE)1082-4122(2022) American Society of Civil Engineers.**

**Author keywords:** Construction industry; Leadership; Gender; Diversity; LinkedIn; Social media networking.

**Introduction**


Historical perspective on diversity traditionally focused on legal and moral perspectives (Grant and Kleiner 1997). Coupled with the Kennedy administration's legislative efforts in the early 1960s, the civil rights movement propelled women's rights into the forefront of social consciousness, driving change in educational and professional outcomes (Jardina and Burns 2016). This paradigm change allowed women to pursue opportunities previously unavailable, creating a significant shift in the late 20th-century workforce. The passing of the Civil Rights Act of 1964 was a key milestone in US society, seeking to end discrimination based on an individual's race, color, religion, sex, or national origin (US Equal Employment Opportunity Commission 2021). Nonetheless, even laws and regulations accompanying this landmark legislation failed to generate fair balance. As a result, affirmative action programs emerged to bridge the gap and eliminate the imbalances. With the continuing growth of women in the workforce and associated greater prominence of gender diversity, policies must continue to evolve to address the 21st-century workplace (Byrd and Scott 2014). Despite greater public visibility and scrutiny, women's architecture, engineering, and construction (AEC) representation still lags behind general US population distribution. Even in the engineering field, women gravitate towards disciplines offering societal impact (Dzombak and Mehta 2017). Targeted efforts to increase participation by women only generated modest gender diversity improvements in select engineering subsegments (National Academy of Engineering 2018). Specifically in the civil and construction engineering field, programs yield only minimal market penetration where women fill approximately 1 in 10 industry positions and fewer than 1 in 25 executive engineering leadership billets (Hickey and Cui 2020).

This investigation further quantified hierarchical organizational imbalance in AEC companies, adding a detailed analysis of career path components. Although significant research exists on gender studies, with an accelerating corpus focused on the civil engineering and construction industry, authors found a lack of data-driven measurement of career paths, underlying professional decisions, and comparison between women and men. Today's early and mid-level career women lack role models to inspire them for continued growth, hindering their ability to achieve future leadership positions (Roebuck and Smith 2013). Further exacerbating the issue, a recent study found that women supervisors leave their jobs more often than men (Maurer et al. 2021). In an effort to identify factors to offset this imbalance, authors extracted profiles of leading industry firms' executive teams to provide roadmaps of successful actions and behaviors. With over 774 million users from more than 200 countries and territories, LinkedIn consolidates the largest corpus of professional experience. When considering the accuracy of self-populated career information, authors considered the adverse professional ramifications resulting from discovered falsehoods embedded in profiles. Therefore, authors deemed the published LinkedIn information peer reviewed and accurate. However, reliance on full disclosure or propensity to inflate their accomplishments by all candidates offers study limitations and creates potential for risk in the data set. As part of the data integrity process, applied statistical testing found no difference in reporting detail or completeness between genders. Across the larger workspace, focus on professional social media ethical practices relating to accuracy, validity, and documentation continues to grow (Kotlyar and

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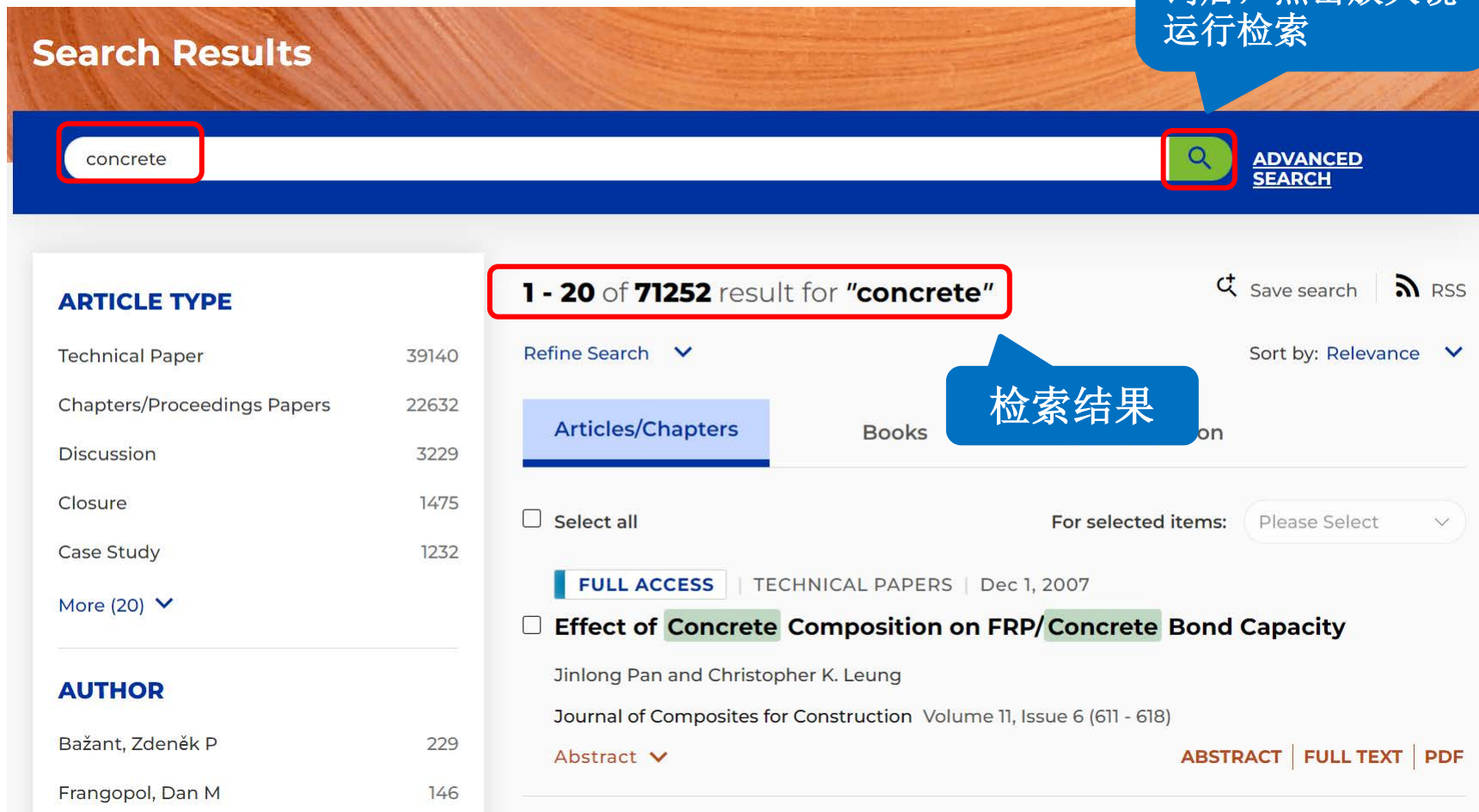
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

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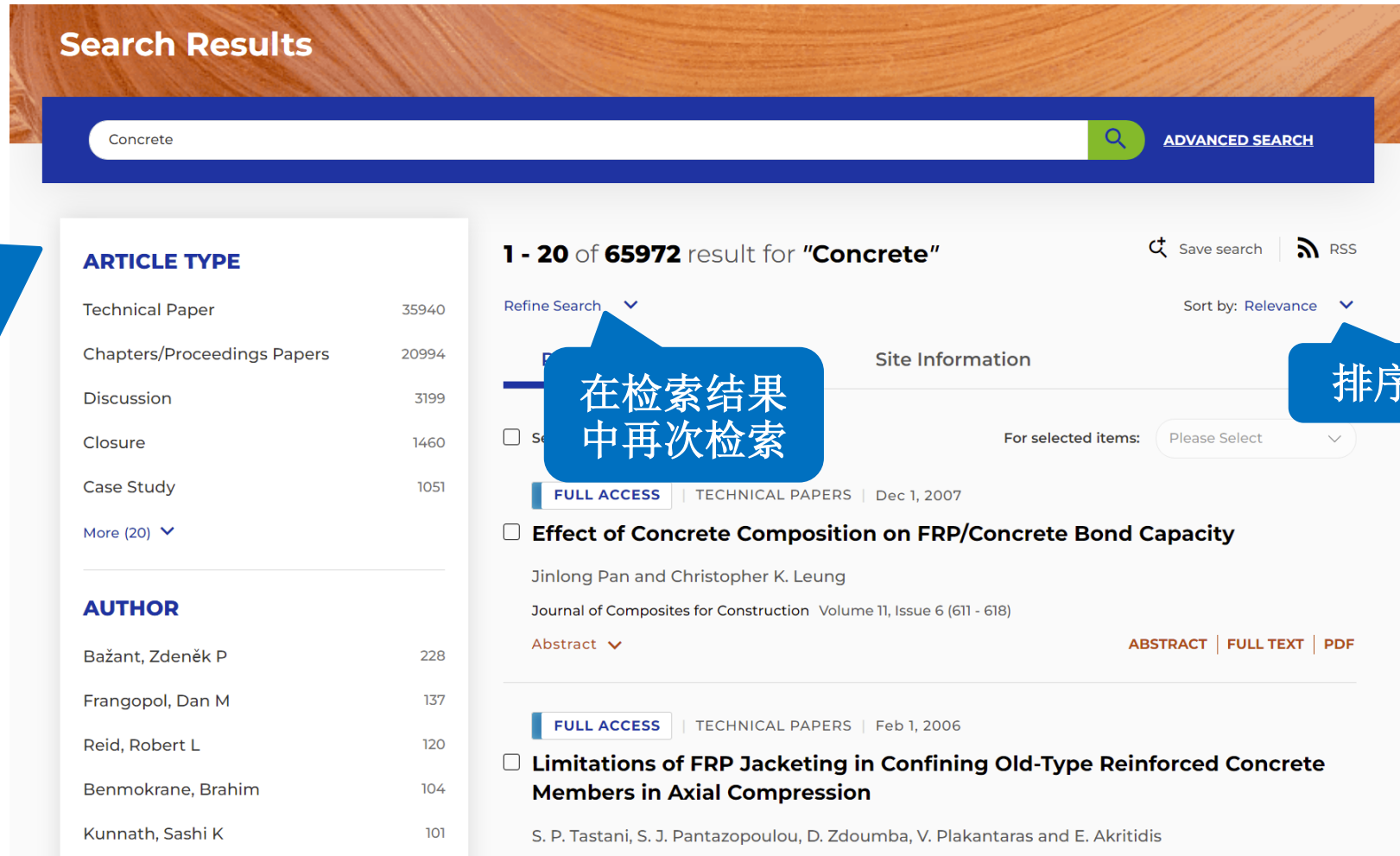
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**Effect of Concrete Composition on FRP/Concrete Bond Capacity**

Jinlong Pan and Christopher K. Leung

Journal of Composites for Construction Volume 11, Issue 6 (611 - 618)

Abstract

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Case Study	1232
Technical Note	1121
Front Matter	625
Back Matter	471
State of the Art Review	307
Corrections	277
Editor's Note	190
Forum	158
Editorial	85
Reviewers	75
Introduction	46
Announcement	40
Book Review	27
Award	24
Legal Issues	23
Papers of Interest	18
review	16
appendix	9
Legal Affairs Feature	7
Teaching Lessons Learned	3
Technical Breakthrough Abstract	3
Less ^	

Article Type:

1. Chapters/Proceedings Papers: 电子书章节/会议录论文
2. 期刊文章主要体裁包括:
  - ① Technical Paper 技术论文
  - ② Technical Note 技术札记
  - ③ Case Study 案例研究
  - ④ State of the Art Review 前沿综述
  - ⑤ Discussion 讨论文章
  - ⑥ Closure 作者回应

# 快速检索 - 检索式的保存

## Search Results

🔍
ADVANCED SEARCH

### APPLIED FILTERS

Case Study X

Clear all

### AUTHOR

- Chen, Qian 4
- Bhattacharya, Baidurya 3
- El-Tawil, Sherif 3
- Wang, Hongfan 3
- Wong, Waider 3
- More (20) ▼

**1 - 20 of 213** result for "concrete"

Refine Search ▼

Articles/Chapters

Select all
 For selected items: Please Select ▼

FULL ACCESS
| Case Studies | Apr 10, 2024

**Ground Behavior due to Dewatering Inside a Foundation Pit Considering the Barrier Effect of Preexisting Building Piles on Aquifer Flow**

Chao-Feng Zeng, William Powrie, Hong-Bo Chen, Shuo Wang, Yu Diao and Xiu-Li Xue

Journal of Geotechnical and Geoenvironmental Engineering Volume 150, Issue 6

Abstract ▼
ABSTRACT | FULL TEXT | PDF

Save search

RSS

## Save this search

✕

Name:

混凝土

**Alert me to new results:**

Never

Daily

Weekly

Monthly

SAVE SEARCH

设定提醒频率

保存检索

# 快速检索 - 检索式的保存

拥有个人账号可以  
使用这些功能

### Save this search ✕

Name:

**Alert me to new results:**

Never  
 Daily  
 Weekly  
 Monthly

**SAVE SEARCH**

**My Account**

- Subscriptions / Purchases
- Redeem Token
- Alerts
- Favorites
- Saved Searches**
- Institutional Affiliations
- Personal Settings
- Billing Address

**Recently Searched**

All: concrete (213)  
 All: concrete (1232)  
 All: concrete (1232)\*  
 All: concrete (1232)\*\*  
 All: concrete (71252)

**SAVED SEARCHES**

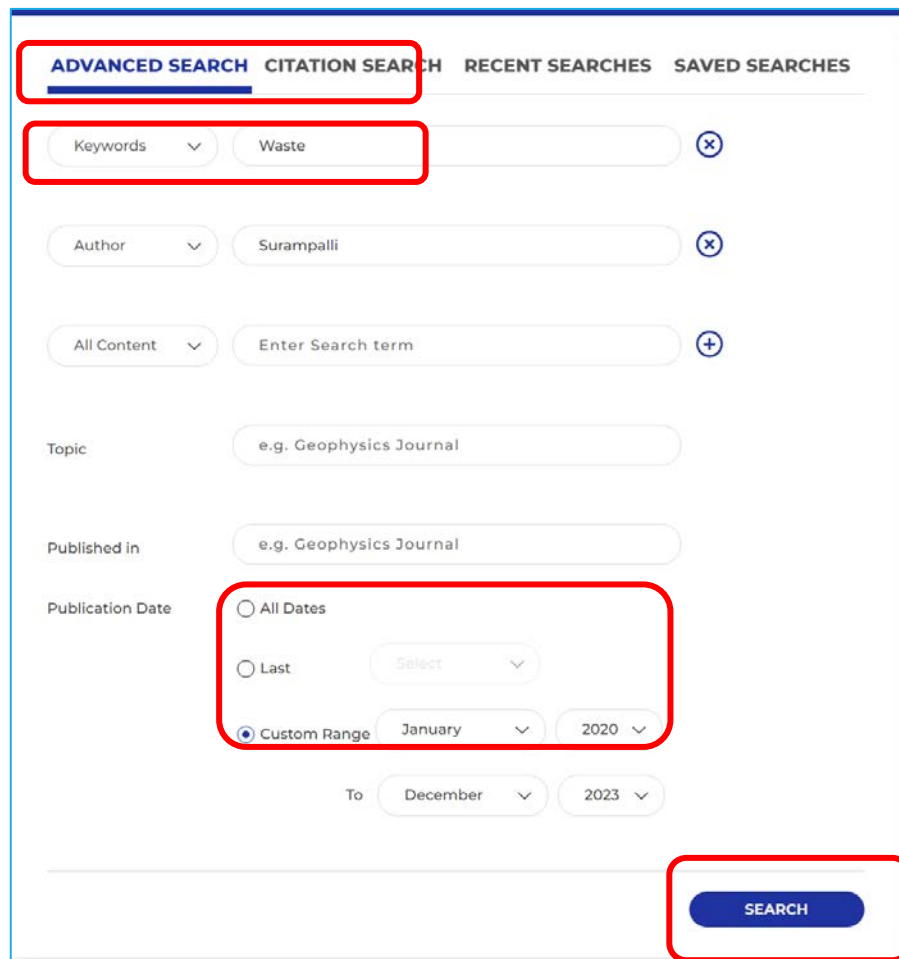
Saved Search Name	Frequency	Saved on	Last run on	
混凝土	Weekly	Sep 1, 2025	Sep 1, 2025	<input type="button" value="Run"/> <input type="button" value="Delete"/>
stress strain	Weekly	Nov 9, 2021	May 16, 2022	<input type="button" value="Run"/> <input type="button" value="Delete"/>

运行或删除保  
存过的检索式

## 2. 高级检索 – 同时设定更多限制条件

同时输入多个  
限定条件

出版时间



The screenshot shows an advanced search interface with the following elements highlighted by red boxes:

- ADVANCED SEARCH** tab selected.
- Keywords** dropdown menu.
- Waste** text input field.
- Author** dropdown menu.
- Surampalli** text input field.
- All Content** dropdown menu.
- Enter Search term** text input field.
- Topic** dropdown menu.
- e.g. Geophysics Journal** text input field.
- Published in** dropdown menu.
- e.g. Geophysics Journal** text input field.
- Publication Date** section with radio buttons for **All Dates**, **Last**, and **Custom Range**.
- Custom Range** sub-section with **January** and **2020** dropdowns.
- To** sub-section with **December** and **2023** dropdowns.
- SEARCH** button.

# 检索技巧：“关键词”

用引号将您的搜索词括起来，可以搜索该短语的精确匹配项，即控制词语位置相邻。

**Search Results**

"Intelligent Construction" ADVANCED SEARCH

1 - 20 of 306 result for ""Intelligent Construction"" Save search RSS

Refine Search Sort by: Relevance

Articles/Chapters Books Site Information

Select all For selected items: Please Select

FULL ACCESS

**A System of Systems Approach to Intelligent Construction Systems**  
Computing in Civil Engineering (2009) (22 - 32)  
Abstract ABSTRACT | PDF/EPUB

FULL ACCESS

**A Review on Current Advances of Intelligent Construction Based on Bibliometric Analysis**  
ICCREM 2022: Carbon Peak and Neutrality Strategies of the Construction Industry (340 - 355)

ARTICLE TYPE	
Technical Paper	150
Chapters/Proceedings Papers	119
Front Matter	14
Case Study	9
State of the Art Review	5
More (5)	

AUTHOR	
Zhang, Jiansong	43
Du, Jing	33
Zhou, Tianyu	16
Ye, Yang	15
Xia, Pengxiang	12

# 检索技巧：布尔运算符

可以在搜索字段中使用布尔运算符“AND（与）”、“OR（或）”和“NOT（非）”。默认情况下，除非指定了其他运算符，否则搜索词之间假定为“与（AND）”关系

## Search Results

ADVANCED SEARCH

### ARTICLE TYPE

Chapters/Proceedings Papers	58
Technical Paper	51
Case Study	11
Technical Note	4
Back Matter	3
More (4) ▼	

### AUTHOR

Hossain, Faisal	4
Chouinard, Luc	2
Foltz, Stuart	2
Inamine, Mike	2
Kalantarnia, Maryam	2

**1 - 20 of 132** result for **"("hydraulic engineering" OR "coastal engineering") AND ("flood control" OR "dam design") AND ("risk assessment" OR "climate resilience")"**

🔍 Save search | 📡 RSS

Refine Search ▼ Sort by: Relevance ▼

Articles/Chapters

Select all For selected items: Please Select ▼

FULL ACCESS | Technical Papers | Jan 14, 2020

**Improved Risk-Assessment Model for Real-Time Reservoir Flood-Control Operation**

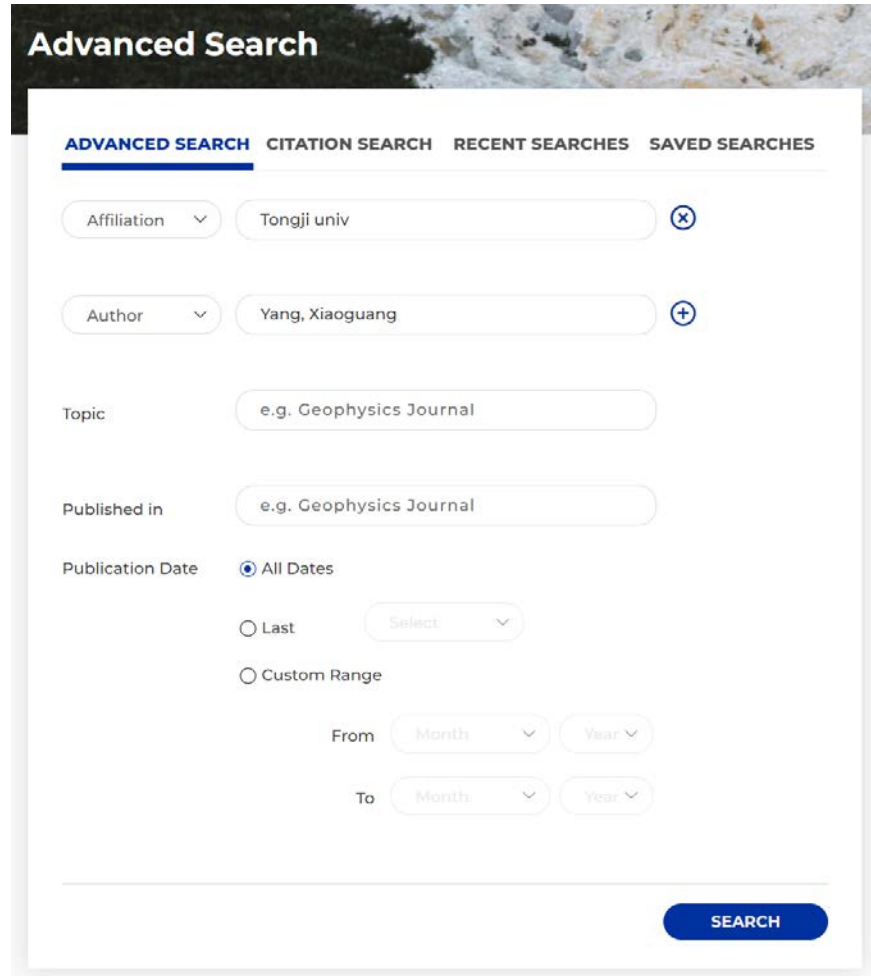
Juan Chen, Ping-an Zhong, Weiguo Zhang, Feilin Zhu and Yu Zhang

Journal of Water Resources Planning and Management Volume 146, Issue 3

Abstract ▼ ABSTRACT | FULL TEXT | PDF

# 检索技巧：机构名称和作者检索

在 Anywhere 选项下选择 Affiliation 可增加限制条件如 Author 等



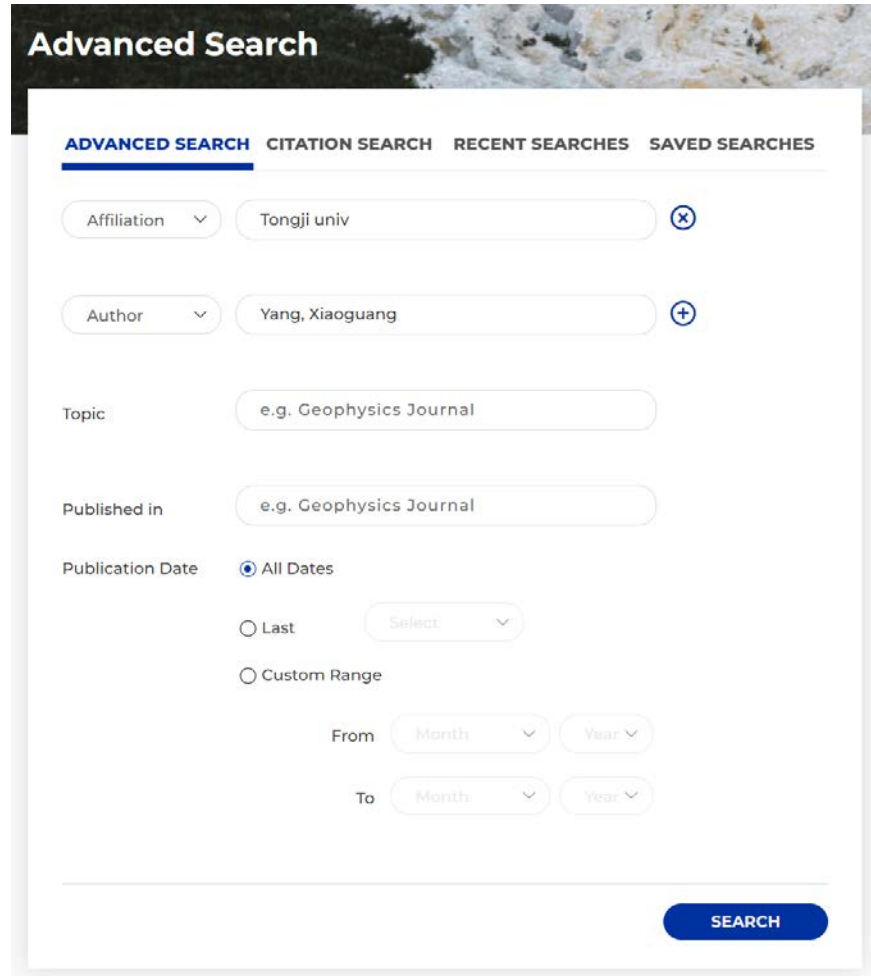
The screenshot shows an 'Advanced Search' interface with the following fields and options:

- ADVANCED SEARCH** (selected), CITATION SEARCH, RECENT SEARCHES, SAVED SEARCHES
- Affiliation** (dropdown): Tongji univ
- Author** (dropdown): Yang, Xiaoguang
- Topic**: e.g. Geophysics Journal
- Published in**: e.g. Geophysics Journal
- Publication Date**:
  - All Dates
  - Last (with a 'Select' dropdown)
  - Custom Range (with 'From' and 'To' date pickers)
- SEARCH** button

检索多位作者时，需用“AND”或“OR”分隔每位作者的姓名。使用“AND”时，将检索由这些作者共同撰写的内容；使用“OR”时，将检索由这些作者中任一作者撰写的内容。

# 检索技巧：机构名称和作者检索

在 Anywhere 选项下选择 Affiliation 可增加限制条件如 Author 等

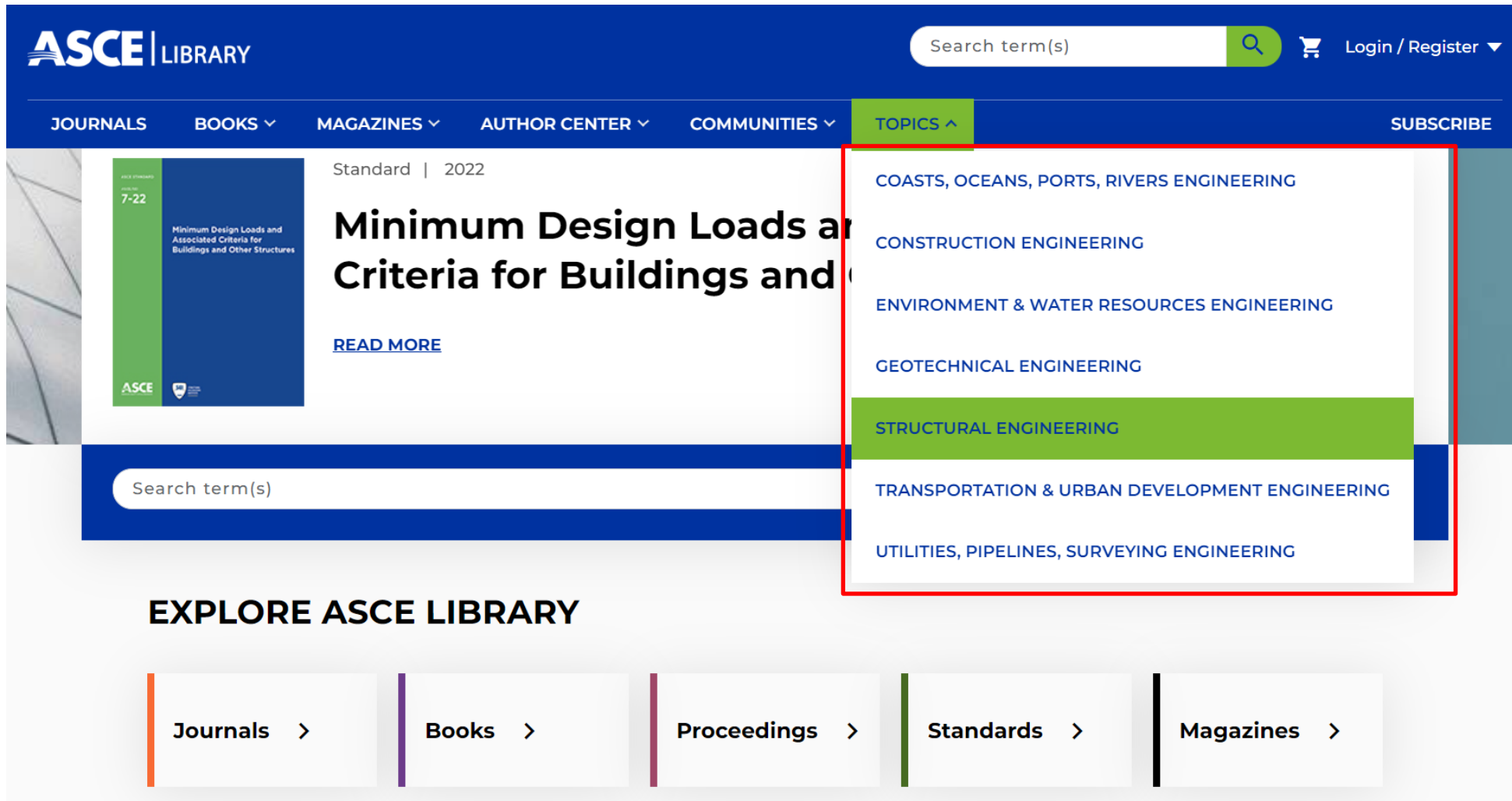


The screenshot shows an 'Advanced Search' interface with the following fields and options:

- ADVANCED SEARCH** (selected), CITATION SEARCH, RECENT SEARCHES, SAVED SEARCHES
- Affiliation** (dropdown): Tongji univ
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检索多位作者时，需用“AND”或“OR”分隔每位作者的姓名。使用“AND”时，将检索由这些作者共同撰写的内容；使用“OR”时，将检索由这些作者中任一作者撰写的内容。

# 参考资源：ASCE 专题合集资源



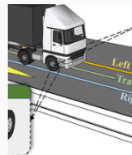
The screenshot displays the ASCE Library website interface. At the top, the ASCE LIBRARY logo is on the left, and a search bar with the text 'Search term(s)' is on the right. Below the logo, navigation links for JOURNALS, BOOKS, MAGAZINES, AUTHOR CENTER, COMMUNITIES, and TOPICS are visible. The TOPICS menu is expanded, showing a list of engineering disciplines: COASTS, OCEANS, PORTS, RIVERS ENGINEERING; CONSTRUCTION ENGINEERING; ENVIRONMENT & WATER RESOURCES ENGINEERING; GEOTECHNICAL ENGINEERING; STRUCTURAL ENGINEERING (highlighted in green); TRANSPORTATION & URBAN DEVELOPMENT ENGINEERING; and UTILITIES, PIPELINES, SURVEYING ENGINEERING. Below the navigation, a featured article titled 'Minimum Design Loads and Associated Criteria for Buildings and Other Structures' is shown, with a 'READ MORE' link. At the bottom, a section titled 'EXPLORE ASCE LIBRARY' contains five buttons: Journals, Books, Proceedings, Standards, and Magazines, each with a right-pointing arrow.

# ASCE 定期按专题整理的期刊、会议录、电子图书等最新合集

## Structural Engineering

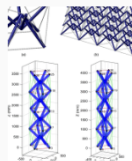
Simplify your ASCE Library browsing experience and go directly to the latest and most current technical content to satisfy all of your civil engineering needs. The solutions to complete your Structural engineering projects are here.

### Research and its Practical Application



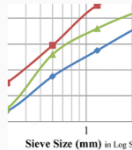
Technical Papers

**Genuine Influence Line and Influence Surface Identification from Measured Bridge Response Considering Vehicular Wheel Loads**



Technical Papers

**A Fast Strategy to Determine Efficient Shape Changes of Adaptable V-Expander Tensegrity Columns**



Technical Papers

**Effective Utilization of Foundry Waste as Aggregates in Developing Eco-Friendly Alkali-Activated and Conventional Concretes for Sustainable Pavement Infrastructure**



Technical Papers



ADVERTISEMENT

### Hybrid and Composite Structures

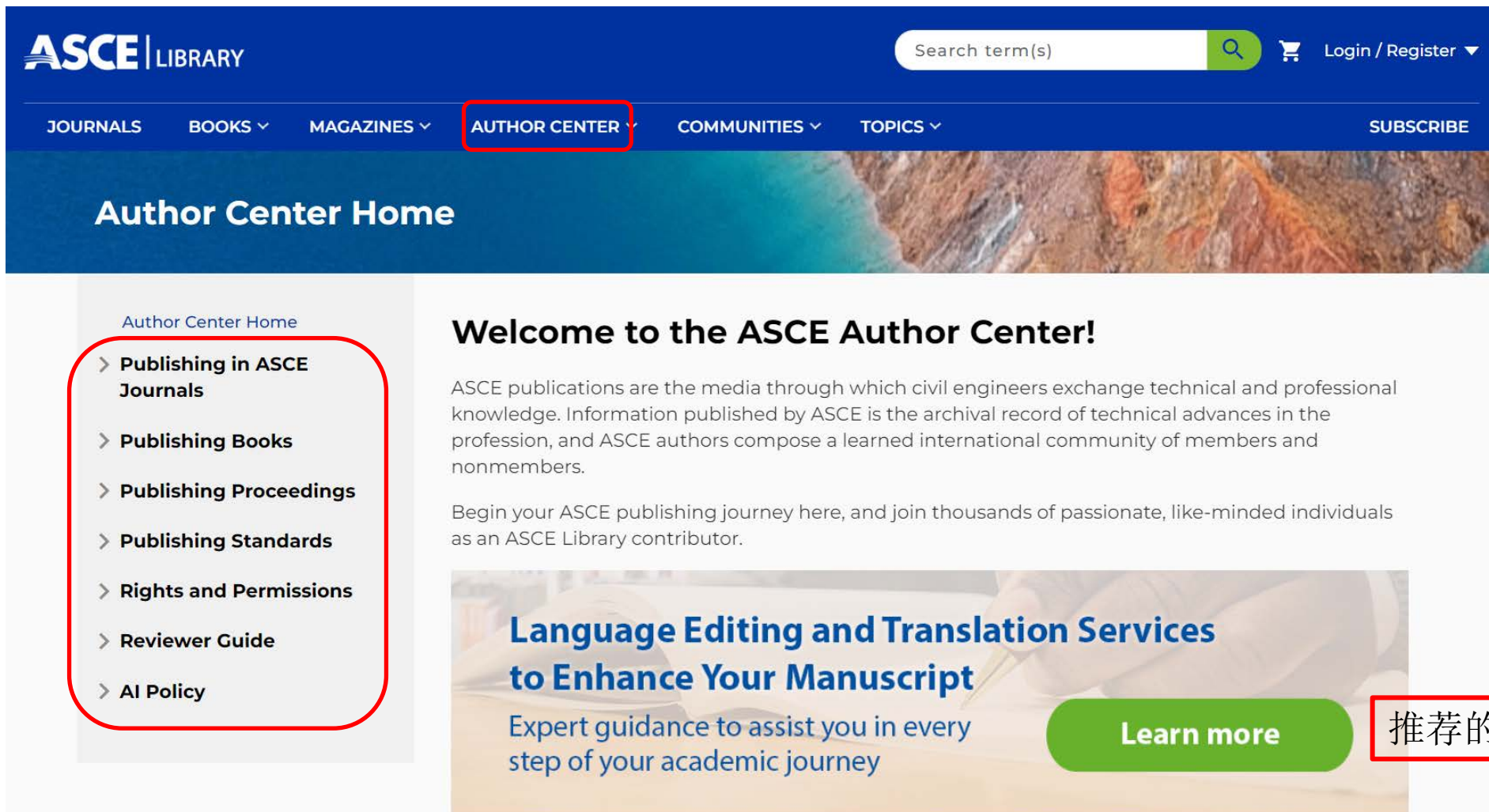




## 培训大纲

1. ASCE 出版社介绍
2. ASCE 数据库内容和品质
3. ASCE 平台功能和检索技巧
4. ASCE 作者中心

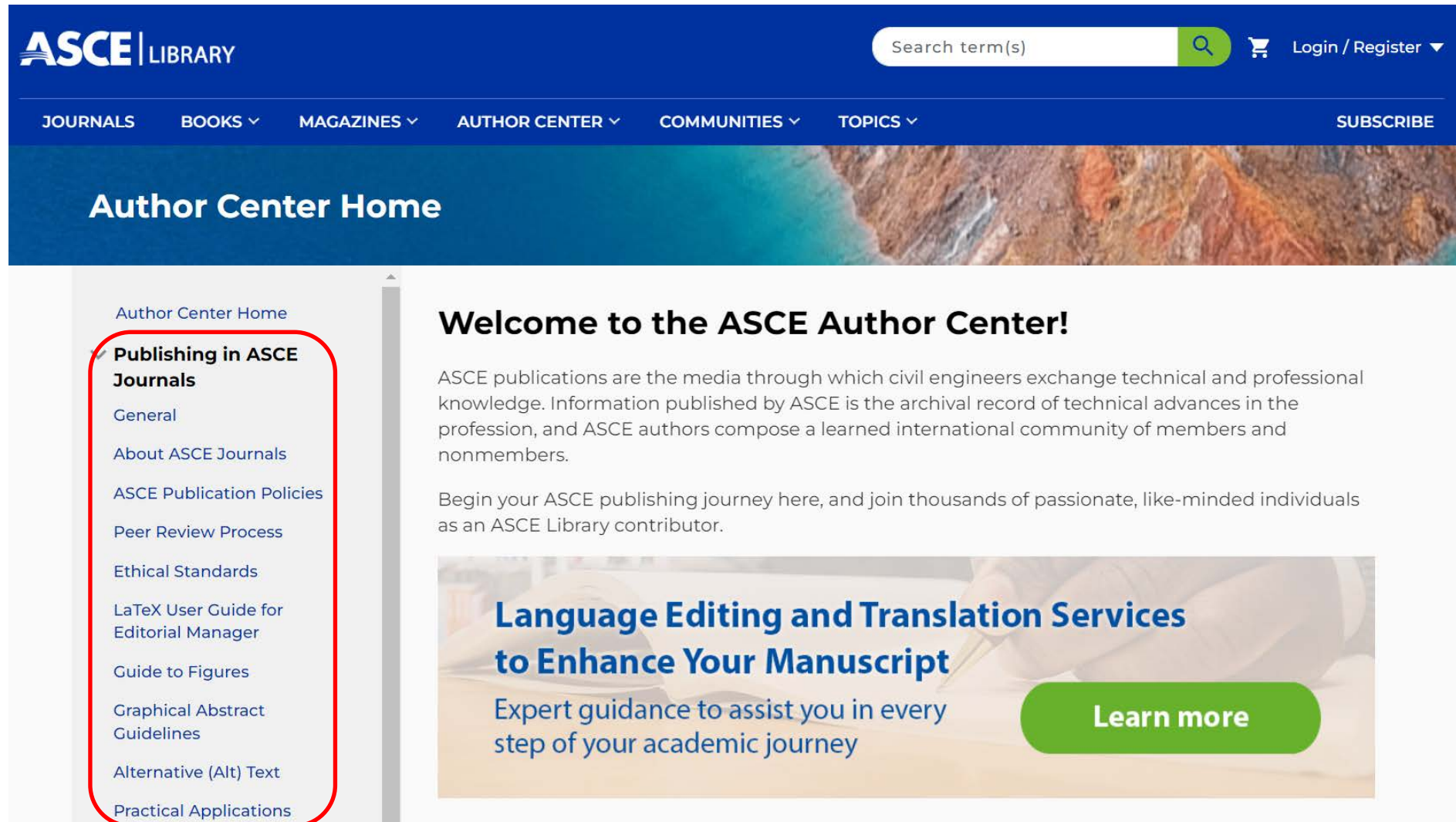
# ASCE 作者中心：投稿指南



The screenshot shows the ASCE Author Center homepage. At the top, there is a navigation bar with the ASCE LIBRARY logo, a search bar, and links for JOURNALS, BOOKS, MAGAZINES, AUTHOR CENTER (highlighted with a red box), COMMUNITIES, TOPICS, and SUBSCRIBE. Below the navigation bar is a banner for the Author Center Home. On the left side, there is a sidebar menu with several options, all of which are enclosed in a red rounded rectangle: Author Center Home, Publishing in ASCE Journals, Publishing Books, Publishing Proceedings, Publishing Standards, Rights and Permissions, Reviewer Guide, and AI Policy. The main content area features a large heading 'Welcome to the ASCE Author Center!' followed by a paragraph of introductory text. Below this is a promotional banner for 'Language Editing and Translation Services to Enhance Your Manuscript' with a 'Learn more' button. To the right of this banner, the text '推荐的润色服务' (Recommended Proofreading Service) is enclosed in a red box.

推荐的润色服务

# ASCE 作者中心：期刊投稿指南和注意事项



The screenshot shows the ASCE Library website's Author Center. The top navigation bar includes 'ASCE LIBRARY', a search bar, and links for 'Login / Register'. Below the navigation bar, there are tabs for 'JOURNALS', 'BOOKS', 'MAGAZINES', 'AUTHOR CENTER', 'COMMUNITIES', 'TOPICS', and 'SUBSCRIBE'. The main content area is titled 'Author Center Home' and features a sidebar on the left with a list of links. The 'Publishing in ASCE Journals' link is highlighted with a red rounded rectangle. The main content area contains a welcome message, a paragraph about ASCE publications, and a call to action for 'Language Editing and Translation Services' with a 'Learn more' button.

**ASCE LIBRARY** Search term(s) Login / Register

JOURNALS BOOKS MAGAZINES AUTHOR CENTER COMMUNITIES TOPICS SUBSCRIBE

## Author Center Home

- Author Center Home
- Publishing in ASCE Journals**
  - General
  - About ASCE Journals
  - ASCE Publication Policies
  - Peer Review Process
  - Ethical Standards
  - LaTeX User Guide for Editorial Manager
  - Guide to Figures
  - Graphical Abstract Guidelines
  - Alternative (Alt) Text
  - Practical Applications

## Welcome to the ASCE Author Center!

ASCE publications are the media through which civil engineers exchange technical and professional knowledge. Information published by ASCE is the archival record of technical advances in the profession, and ASCE authors compose a learned international community of members and nonmembers.

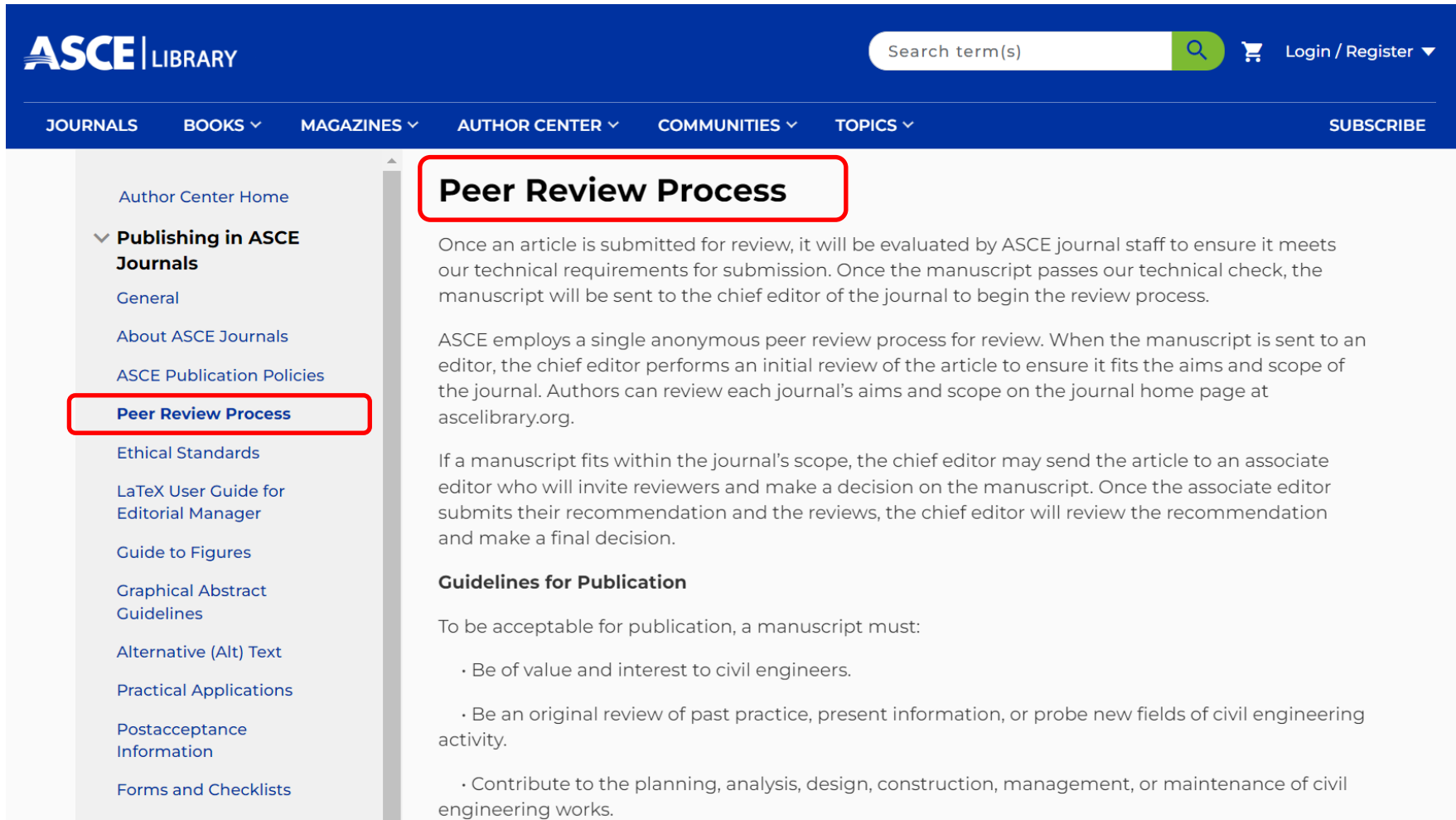
Begin your ASCE publishing journey here, and join thousands of passionate, like-minded individuals as an ASCE Library contributor.

### Language Editing and Translation Services to Enhance Your Manuscript

Expert guidance to assist you in every step of your academic journey

[Learn more](#)

# ASCE 作者中心：期刊投稿指南 Peer Review Process



The screenshot shows the ASCE LIBRARY website interface. The top navigation bar includes the ASCE LIBRARY logo, a search bar, and links for Login / Register. Below the navigation bar, there are tabs for JOURNALS, BOOKS, MAGAZINES, AUTHOR CENTER, COMMUNITIES, and TOPICS, along with a SUBSCRIBE button. The main content area is divided into a left sidebar and a main content pane. The sidebar contains a list of links under the heading 'Publishing in ASCE Journals', with 'Peer Review Process' highlighted in a red box. The main content pane features the title 'Peer Review Process' in a red-bordered box, followed by an introductory paragraph, a paragraph about the ASCE review process, a paragraph about the role of the chief editor, and a section titled 'Guidelines for Publication' with a bulleted list of requirements.

**ASCE LIBRARY** Search term(s) Login / Register

JOURNALS BOOKS MAGAZINES AUTHOR CENTER COMMUNITIES TOPICS SUBSCRIBE

Author Center Home

▼ **Publishing in ASCE Journals**

General

About ASCE Journals

ASCE Publication Policies

**Peer Review Process**

Ethical Standards

LaTeX User Guide for Editorial Manager

Guide to Figures

Graphical Abstract Guidelines

Alternative (Alt) Text

Practical Applications

Postacceptance Information

Forms and Checklists

## Peer Review Process

Once an article is submitted for review, it will be evaluated by ASCE journal staff to ensure it meets our technical requirements for submission. Once the manuscript passes our technical check, the manuscript will be sent to the chief editor of the journal to begin the review process.

ASCE employs a single anonymous peer review process for review. When the manuscript is sent to an editor, the chief editor performs an initial review of the article to ensure it fits the aims and scope of the journal. Authors can review each journal's aims and scope on the journal home page at [ascelibrary.org](http://ascelibrary.org).

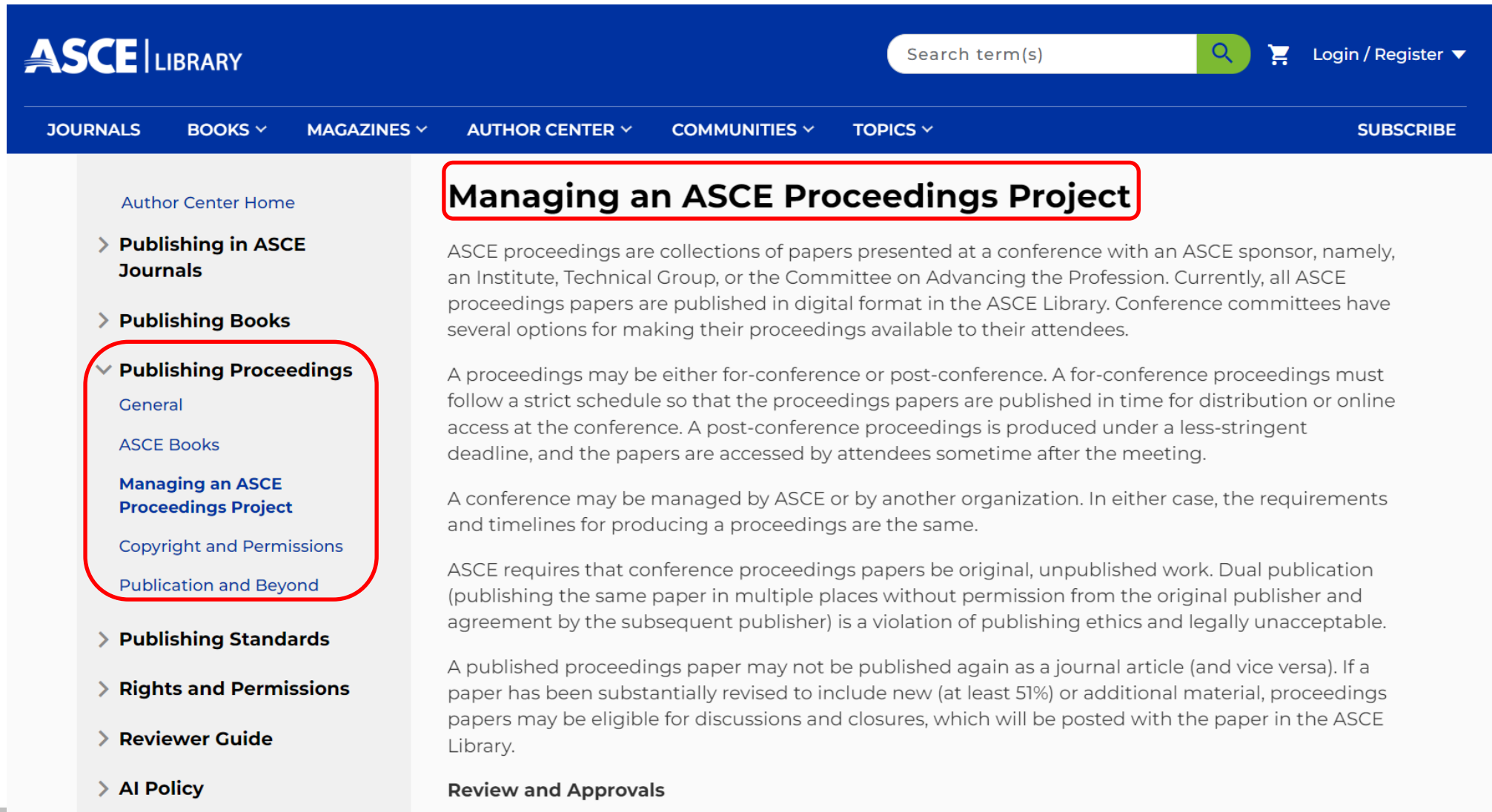
If a manuscript fits within the journal's scope, the chief editor may send the article to an associate editor who will invite reviewers and make a decision on the manuscript. Once the associate editor submits their recommendation and the reviews, the chief editor will review the recommendation and make a final decision.

### Guidelines for Publication

To be acceptable for publication, a manuscript must:

- Be of value and interest to civil engineers.
- Be an original review of past practice, present information, or probe new fields of civil engineering activity.
- Contribute to the planning, analysis, design, construction, management, or maintenance of civil engineering works.

# ASCE 作者中心：会议录投稿



**ASCE** | LIBRARY

Search term(s)

JOURNALS BOOKS ▾ MAGAZINES ▾ AUTHOR CENTER ▾ COMMUNITIES ▾ TOPICS ▾

- Author Center Home
- > Publishing in ASCE Journals
- > Publishing Books
- ▾ **Publishing Proceedings**
  - General
  - ASCE Books
  - Managing an ASCE Proceedings Project**
  - Copyright and Permissions
  - Publication and Beyond
- > Publishing Standards
- > Rights and Permissions
- > Reviewer Guide
- > AI Policy

## Managing an ASCE Proceedings Project

ASCE proceedings are collections of papers presented at a conference with an ASCE sponsor, namely, an Institute, Technical Group, or the Committee on Advancing the Profession. Currently, all ASCE proceedings papers are published in digital format in the ASCE Library. Conference committees have several options for making their proceedings available to their attendees.

A proceedings may be either for-conference or post-conference. A for-conference proceedings must follow a strict schedule so that the proceedings papers are published in time for distribution or online access at the conference. A post-conference proceedings is produced under a less-stringent deadline, and the papers are accessed by attendees sometime after the meeting.

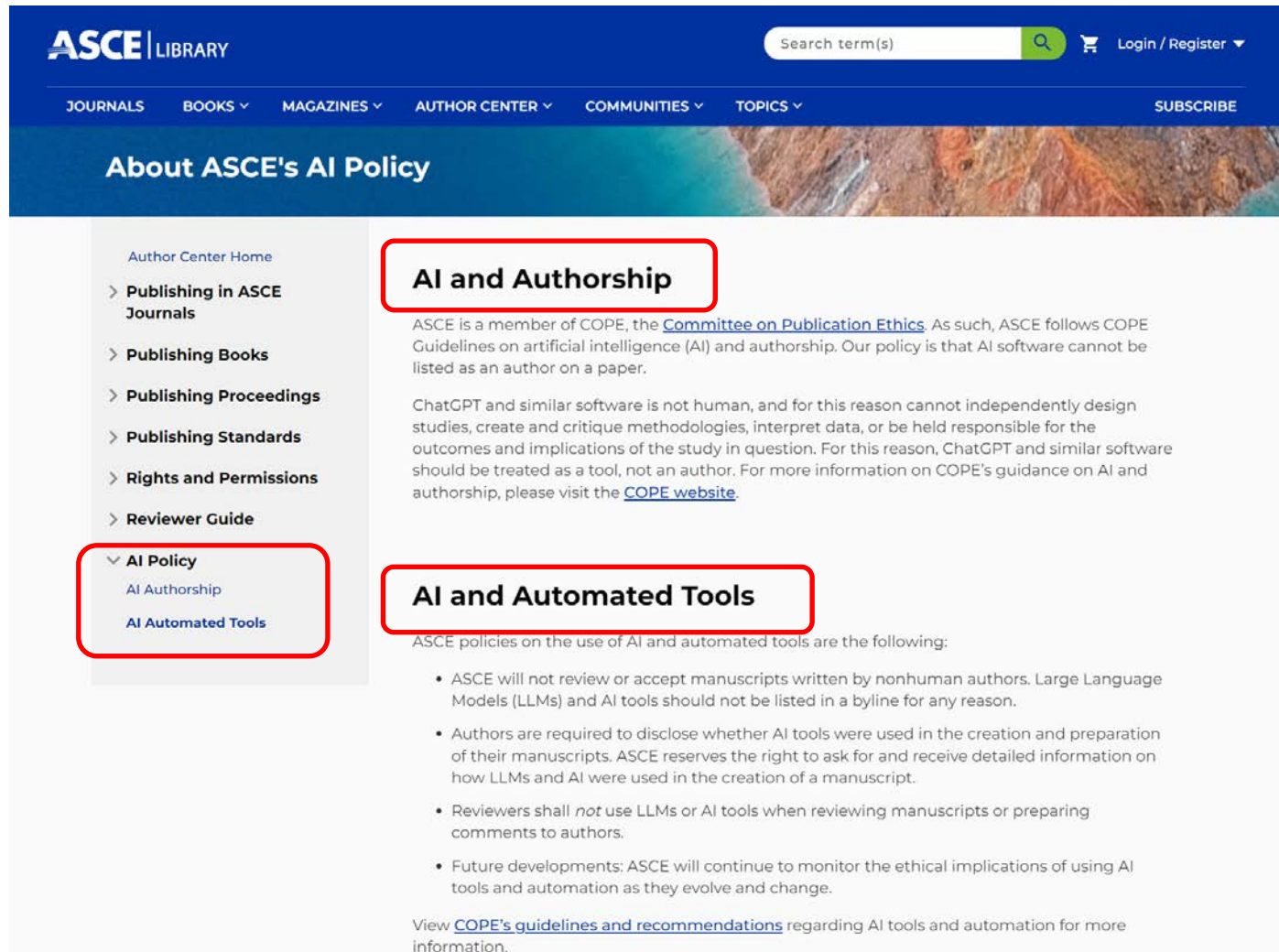
A conference may be managed by ASCE or by another organization. In either case, the requirements and timelines for producing a proceedings are the same.

ASCE requires that conference proceedings papers be original, unpublished work. Dual publication (publishing the same paper in multiple places without permission from the original publisher and agreement by the subsequent publisher) is a violation of publishing ethics and legally unacceptable.

A published proceedings paper may not be published again as a journal article (and vice versa). If a paper has been substantially revised to include new (at least 51%) or additional material, proceedings papers may be eligible for discussions and closures, which will be posted with the paper in the ASCE Library.

### Review and Approvals

# ASCE 作者中心：投稿著作中AI工具的使用规定



**ASCE** LIBRARY

Search term(s)

JOURNALS BOOKS MAGAZINES AUTHOR CENTER COMMUNITIES TOPICS SUBSCRIBE

## About ASCE's AI Policy

- Author Center Home
- > Publishing in ASCE Journals
- > Publishing Books
- > Publishing Proceedings
- > Publishing Standards
- > Rights and Permissions
- > Reviewer Guide
- AI Policy
    - AI Authorship
    - AI Automated Tools

### AI and Authorship

ASCE is a member of COPE, the [Committee on Publication Ethics](#). As such, ASCE follows COPE Guidelines on artificial intelligence (AI) and authorship. Our policy is that AI software cannot be listed as an author on a paper.

ChatGPT and similar software is not human, and for this reason cannot independently design studies, create and critique methodologies, interpret data, or be held responsible for the outcomes and implications of the study in question. For this reason, ChatGPT and similar software should be treated as a tool, not an author. For more information on COPE's guidance on AI and authorship, please visit the [COPE website](#).

### AI and Automated Tools

ASCE policies on the use of AI and automated tools are the following:

- ASCE will not review or accept manuscripts written by nonhuman authors. Large Language Models (LLMs) and AI tools should not be listed in a byline for any reason.
- Authors are required to disclose whether AI tools were used in the creation and preparation of their manuscripts. ASCE reserves the right to ask for and receive detailed information on how LLMs and AI were used in the creation of a manuscript.
- Reviewers shall *not* use LLMs or AI tools when reviewing manuscripts or preparing comments to authors.
- Future developments: ASCE will continue to monitor the ethical implications of using AI tools and automation as they evolve and change.

View [COPE's guidelines and recommendations](#) regarding AI tools and automation for more information.

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