信息及电气学科
文献资源利用方法概述

清华大学图书馆 信息参考部
刘敬晗，ljh228@Tsinghua.edu.cn

2019.9

目录

- 信息及电气学科重要文献资源介绍
- IEEE/IET Electronic Library (IEL) 检索方法
- ACM Digital Library 检索方法
- 课题文献调研的一般思路

信息及电气学科
重要文献资源介绍

常见文献类型

- 图书 (book, monograph)
- 期刊 (serial, periodical)
- 报纸 (newspaper)

- 会议文献 (proceedings)
- 技术报告 (technical report)
- 专利 (patent)
- 标准 (standard)
- 学位论文 (thesis, dissertation)

从文献载体形态来看，分为纸本资源、电子资源等。

信息及电气学科的主要电子资源

- 最重要的两个全文库：

期刊、会议、
标准、图书等

① IEEE（电气电子工程师学会）
/IET Electronic Library (国际工程和技术学会)

② The ACM Digital Library (美国计算机协会)

其他主要数据库（外文）

- Ei Compendex （期刊、会议等）★
- Web of Science（SCI、CPCI-S，期刊、会议）★
- Scopus（期刊、会议） 收录量最大的文摘索引库
- Derwent Innovations Index（DII世界专利）
- INSPEC（期刊、会议）
- ProQuest Technology Research Database
  - Electronics and Communications Abstracts
  - Computer and Information Systems Abstracts
  - Aerospace Database
  - ANTE: Abstracts in New Technologies and Engineering
- ProQuest Dissertations and Theses - A&I（学位论文）
- Safari电子图书 （IT类国外电子图书）
- Springer电子期刊及电子图书

其他主要数据库（中文）

- 中国知网
- 万方数据资源系统
- 维普期刊资源整合服务平台

IEEE

2006年3月，英国电气工程师学会（IEE）与英国企业工程师学会（IIE）合并组成英国工程技术学会IET。

IEEE Xplore Digital Library数据平台收录IEEE（电气电子工程师学会）和IET的多种出版物，是 IEEE 旗下最完整、最有价值的在线数字资源。

内容覆盖了电气电子、航空航天、计算机、通信工程、生物医学工程、机器人自动化、半导体、纳米技术、电力等各种技术领域。

ACM

The ACM Digital Library数据库收录了美国计算机协会（Association for Computing Machinery）的各种电子期刊、会议录、快报等文献的全文信息，还可以看到出版物信息。

全面集成了“在线计算机文献指南”（The Guide to Computing Literature）这个书目文摘数据库，旨在提供了解计算机和信息技术领域资源的窗口。

IEEE/IET Electronic Library (IEL)

数据库简介

IEEE/IET Electronic Library (IEL)数据库提供IEEE（电气电子工程师学会）和IET（国际工程和技术学会）出版的：

- 170余种IEEE、20余种IET期刊与杂志……总数达400多种（包括过刊及更名刊）；
- 每年1400多种IEEE会议录和20多种IET会议录，总量超过17000卷；
- 60多种VDE（德国电子协会）会议录，超过4500篇；
- 2600多种IEEE标准；
- 300多万篇全文文档，提供1988年以后的全文文献，部分历史文献回溯到1872年；
- 还有IEEE-Wiley电子书、MIT期刊/电子书、IBM Journal和Morgan & Claypool综述文集等其他资源。2019年增订FnT电子书
- 内容覆盖了电气电子、航空航天、计算机、通信工程、生物医学工程、机器人自动化、半导体、纳米技术、电力等各种技术领域。

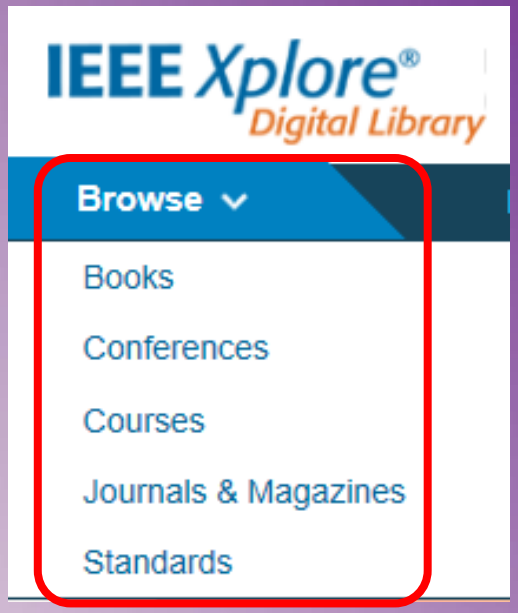
数据库简介

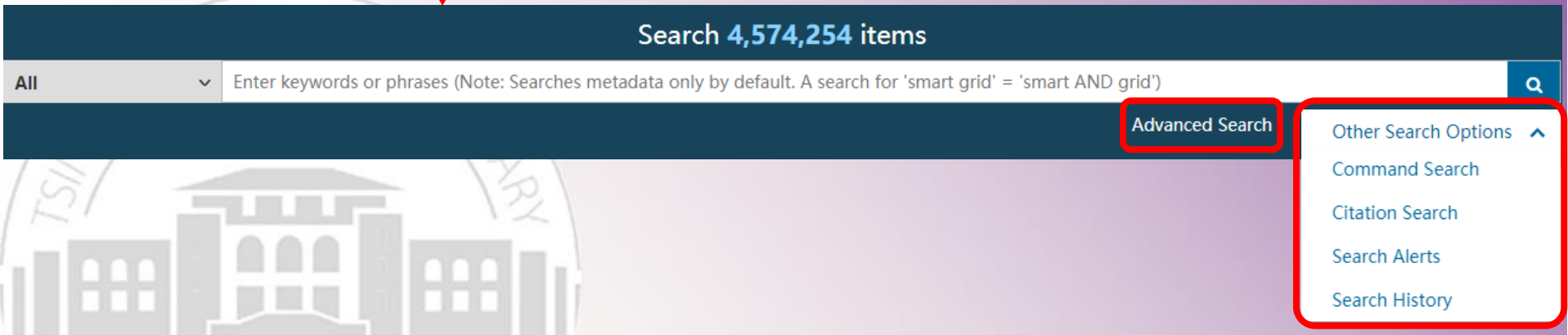
JCR特刊

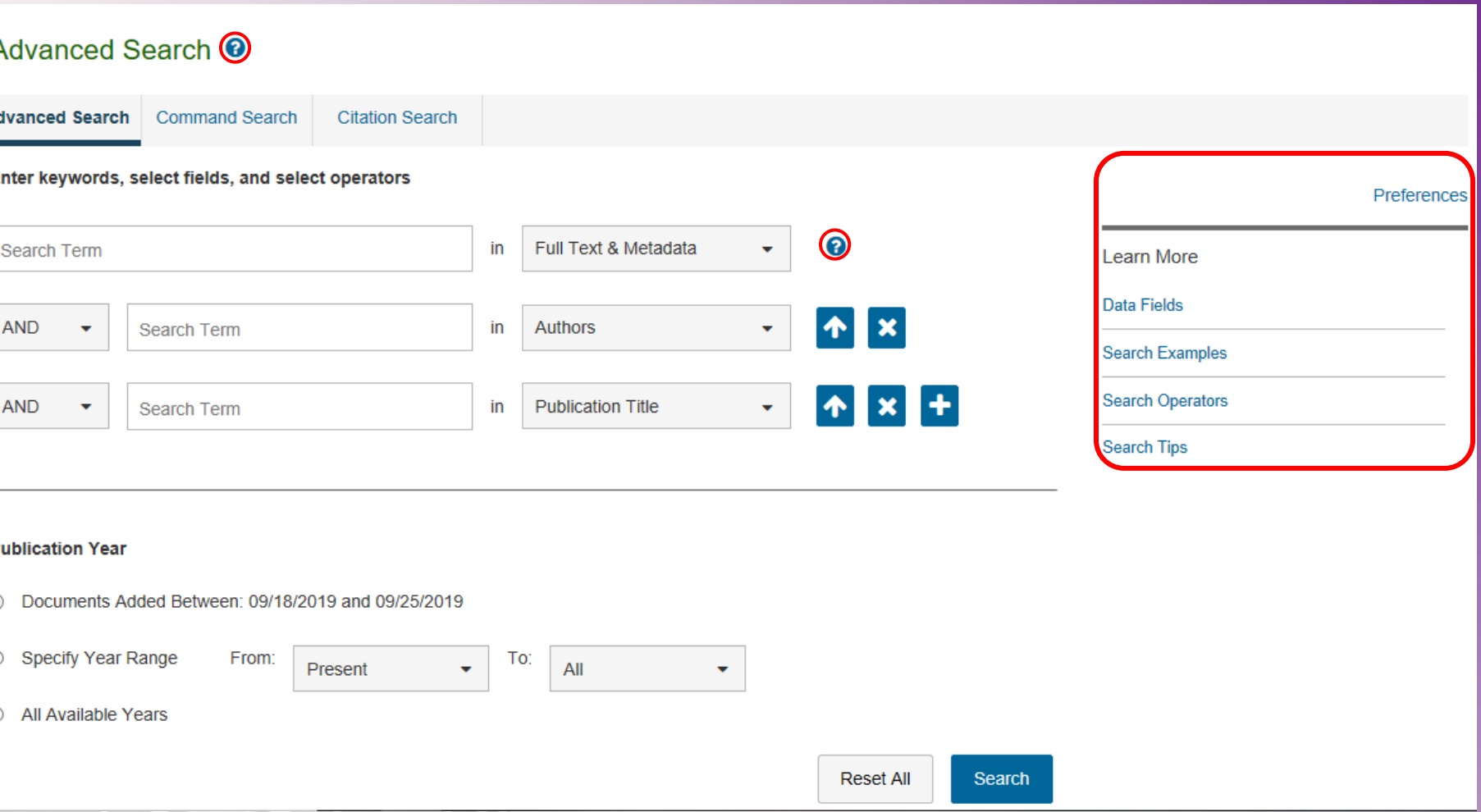
本年召开的IEEE会议特刊

查找文献的方式

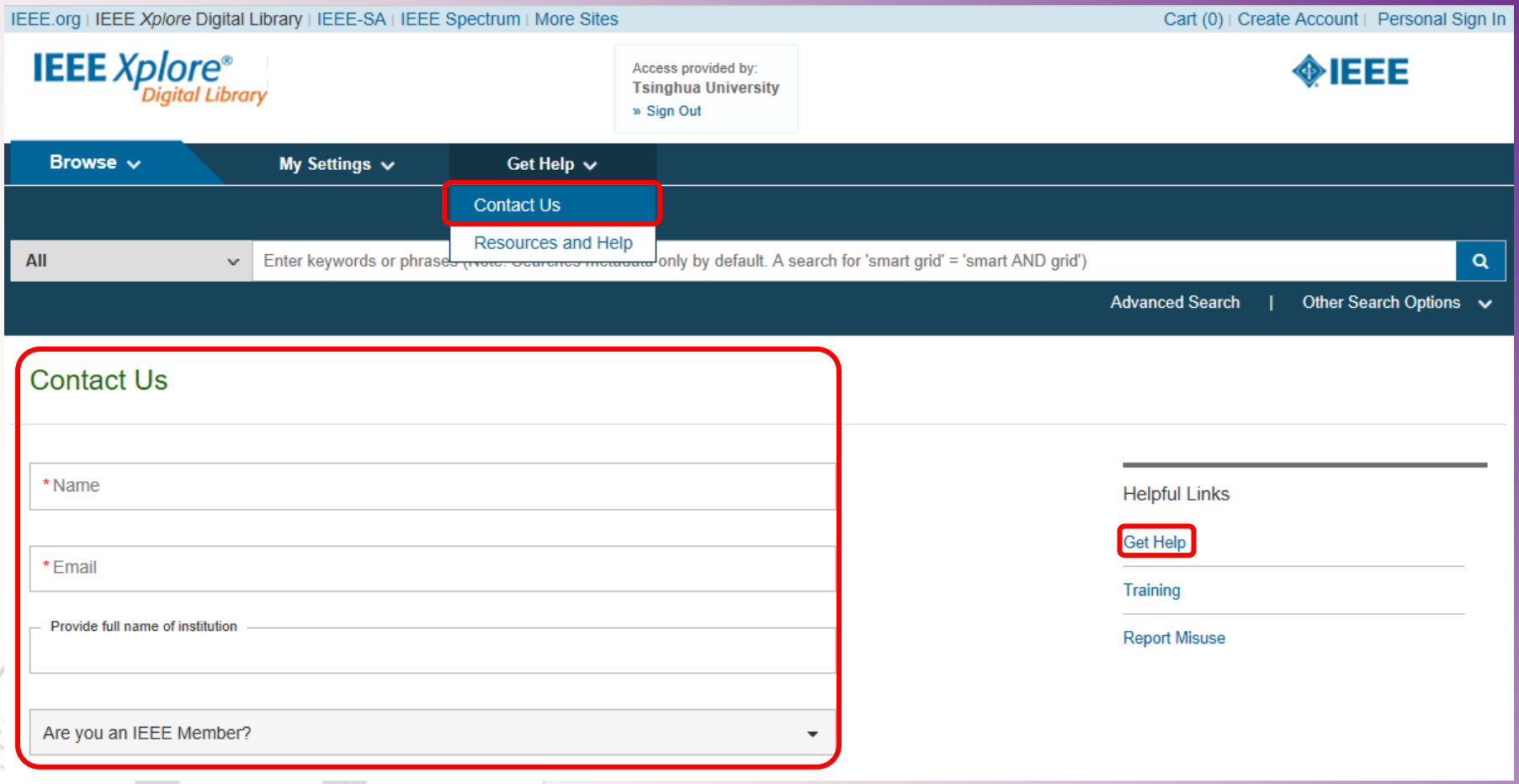
- 浏览（Browse）
- 搜索（Search）






Advanced Search
Advanced Search
Command Search
Citation Search
Enter keywords, select fields, and select operators
Search Term
in
Full Text & Metadata
AND
Search Term
in
Authors
AND
Search Term
in
Publication Title
Preferences
Learn More
Data Fields
Search Examples
Search Operators
Search Tips
Publication Year
Documents Added Between: 09/18/2019 and 09/25/2019
Specify Year Range
From:
Present
To:
All
All Available Years
Reset All
Search

帮助


IEEE.org | IEEE Xplore Digital Library | IEEE-SA | IEEE Spectrum | More Sites
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Access provided by:
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» Sign Out
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Resources and Help
All
Enter keywords or phrases
only by default. A search for 'smart grid' = 'smart AND grid')
Advanced Search | Other Search Options
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Provide full name of institution
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Training
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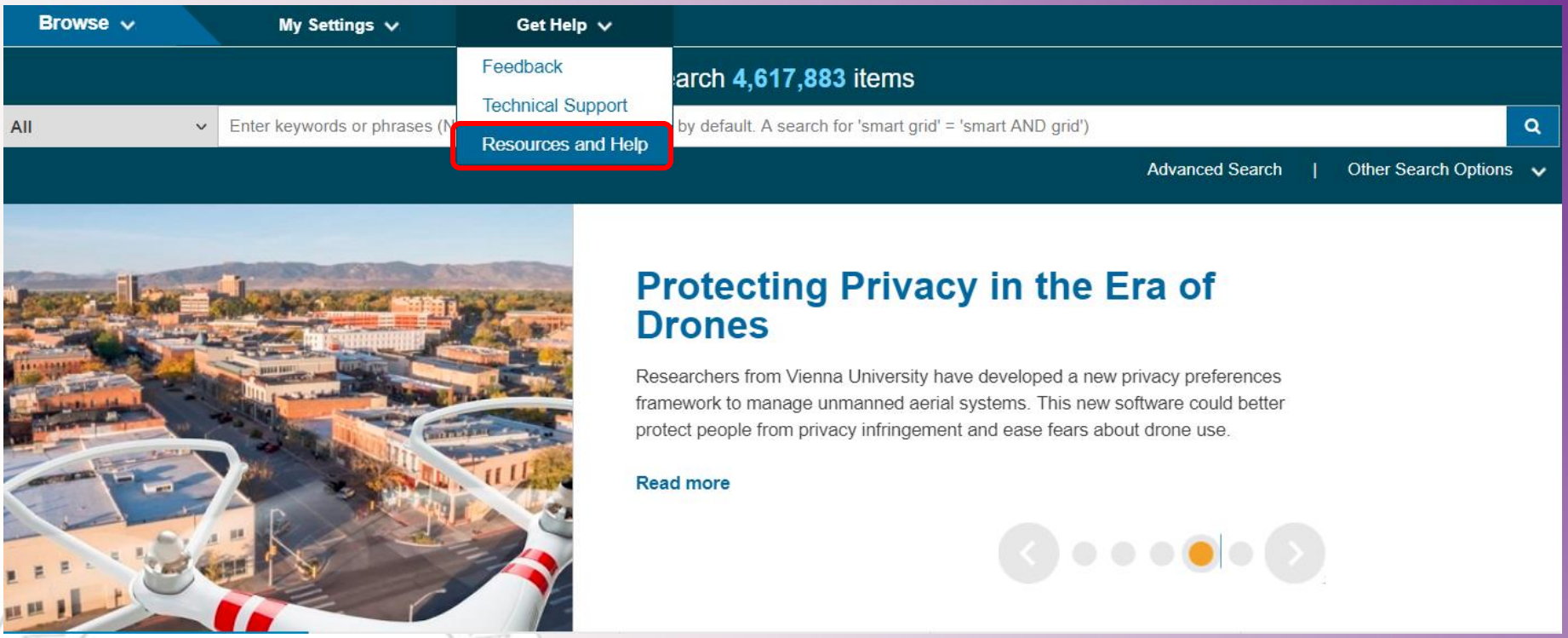
帮助


Browse
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Get Help
Feedback
Technical Support
Resources and Help
arch 4,617,883 items
All
Enter keywords or phrases (
by default. A search for 'smart grid' = 'smart AND grid')
Advanced Search
Other Search Options
Protecting Privacy in the Era of Drones
Researchers from Vienna University have developed a new privacy preferences framework to manage unmanned aerial systems. This new software could better protect people from privacy infringement and ease fears about drone use.
Read more

IEEE Xplore® Digital Library

IEEE

Resources and Help

Resources | Search Resouces and Help

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Introducing IEEE Open Journals

IEEE *Xplore*® is excited to introduce a suite of new Open Access journals. We are looking for submissions from experts for the following IEEE Open Journals:

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- Industrial Electronics Society
- Industry Applications
- Intelligent Transportation Systems
- Nanotechnology
- Power Electronics
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检索

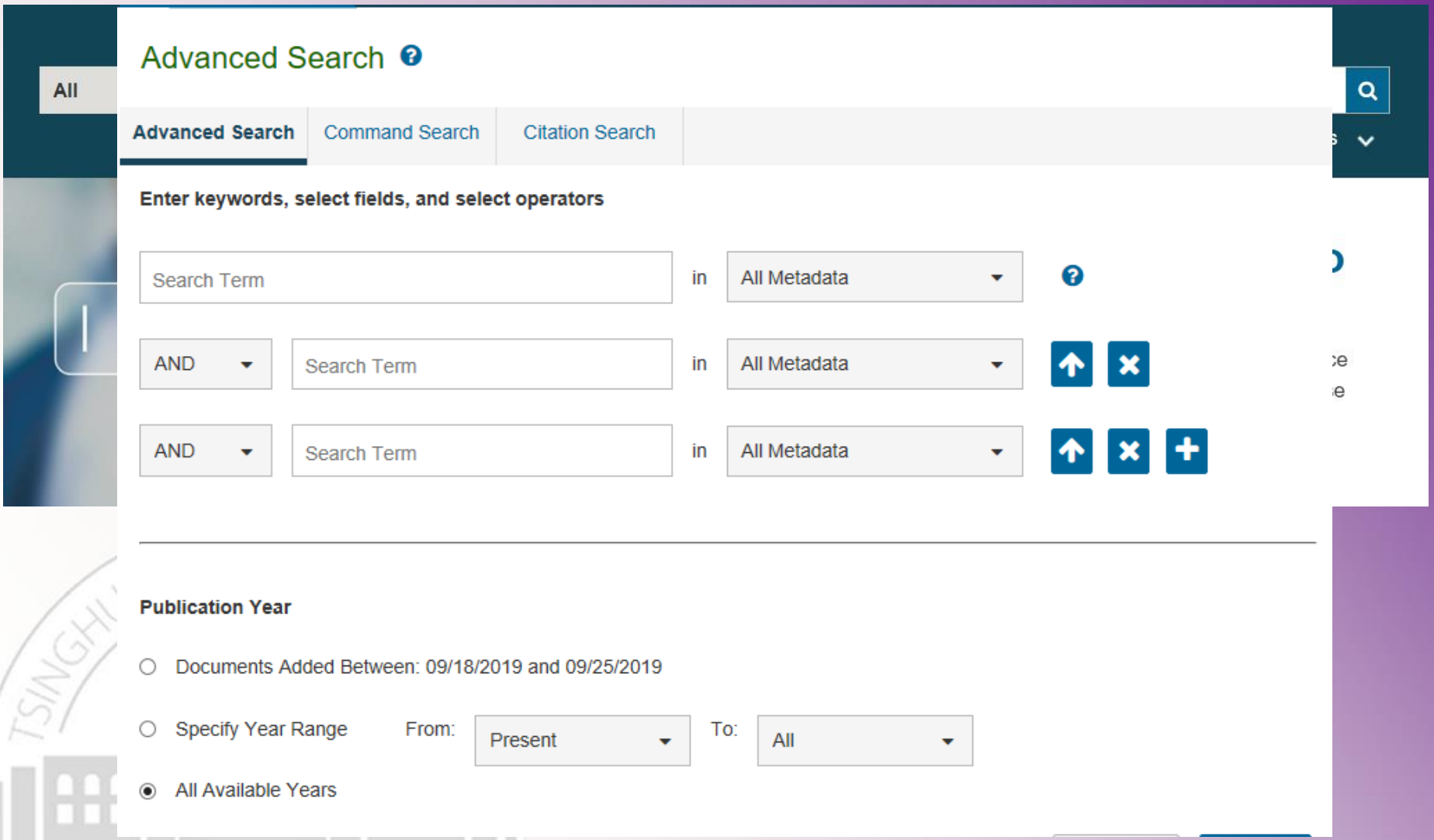
Search 4,617,963 items

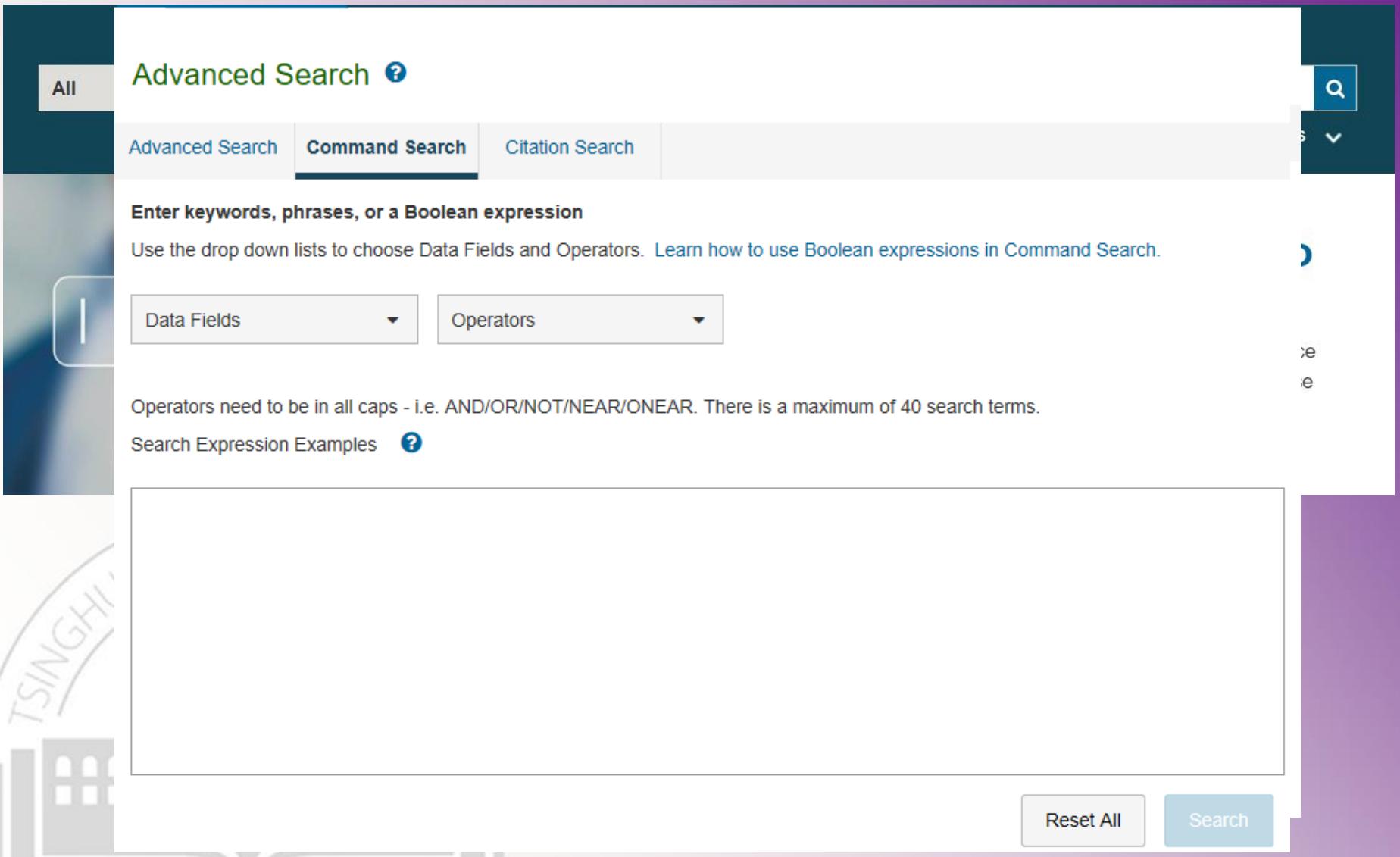
All | Enter keywords or short phrases (searches metadata only by default)

Advanced Search | Other Search Options

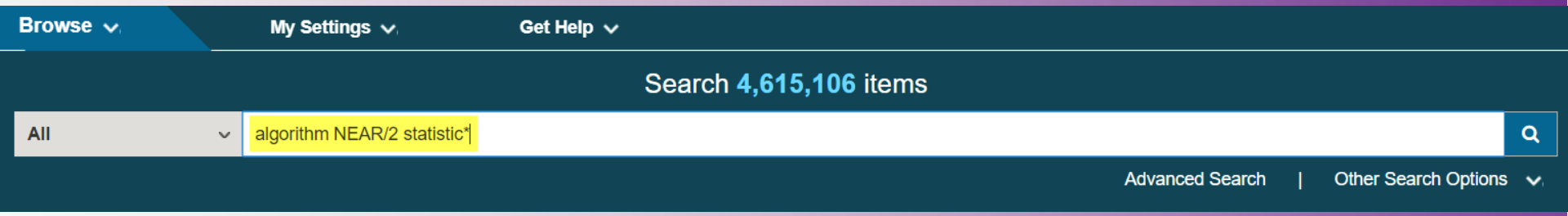
New Search Engine Coming to IEEE *Xplore*

This new search engine allows for a much more integrated experience and offers users several enhanced features including the ability to use wildcards with phrased searches, the use of search operators in the basic search, and an improved process for saved searches, among other things.


All
Advanced Search
Advanced Search
Command Search
Citation Search
Enter keywords, select fields, and select operators
Search Term
in
All Metadata
AND
Search Term
in
All Metadata
AND
Search Term
in
All Metadata
Publication Year
Documents Added Between: 09/18/2019 and 09/25/2019
Specify Year Range
From:
Present
To:
All
All Available Years


All
Advanced Search
Advanced Search
Command Search
Citation Search
Enter keywords, phrases, or a Boolean expression
Use the drop down lists to choose Data Fields and Operators. Learn how to use Boolean expressions in Command Search.
Data Fields
Operators
Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 40 search terms.
Search Expression Examples
Reset All
Search

基本检索



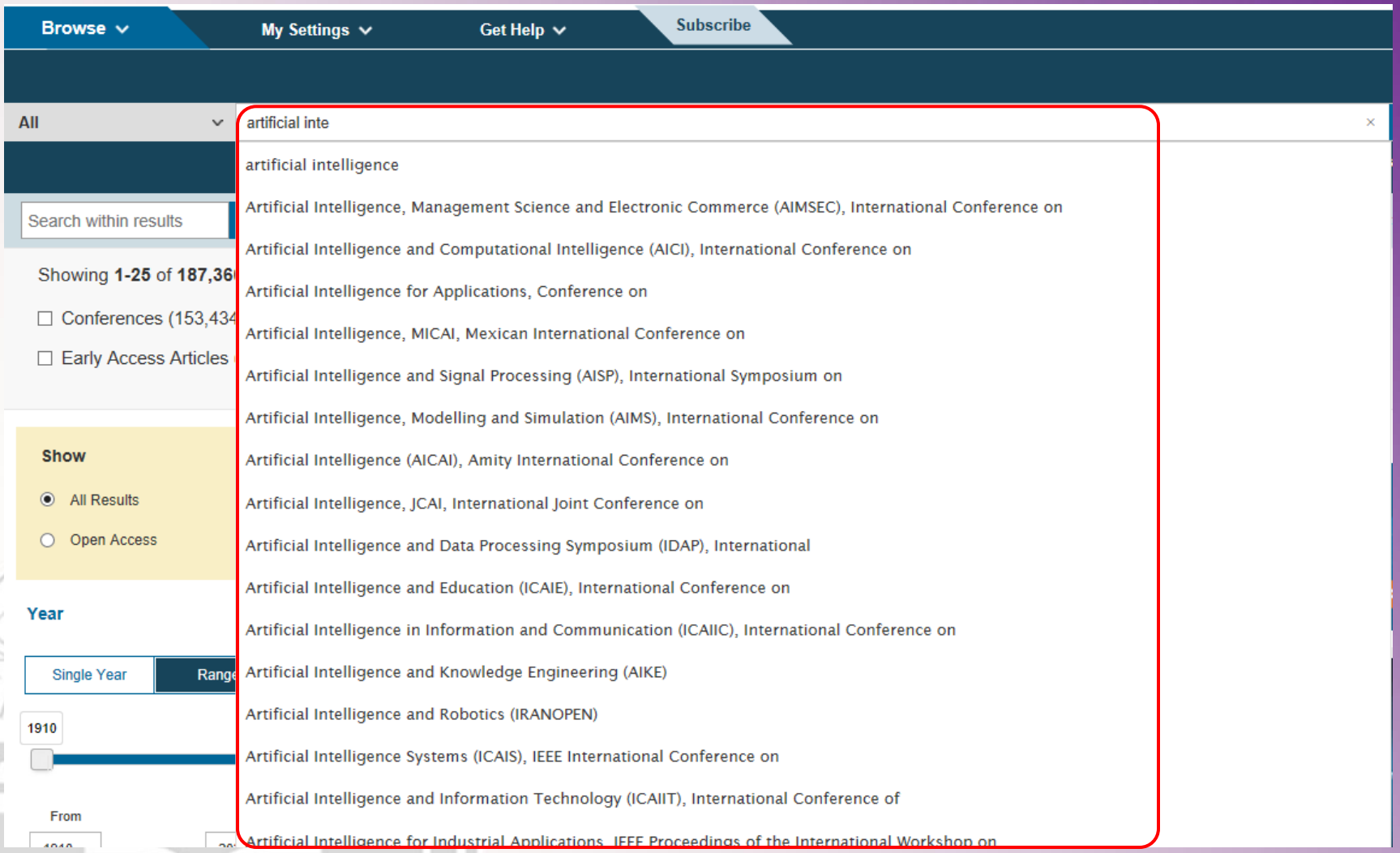
- 基本检索仅搜索元数据
- 不区分大小写
- 支持检索式
- 支持通配符
- 布尔表达式可以和位置算符配合使用

  Eg：（A or B) NEAR/3 (C or D)

检索字段

- "Document Title":computing
- "Authors":B. Smith
- "Publication Title":data mining
- "Abstract":LTE
- "Index Terms":resistor AND capacitor
- "Accession Number":16585141
- "Article Number":8263303
- "Article Page Number":1102305
- "Author Affiliations":IBM
- "Author Keywords":java
- "Author ORCID":0000-0001-6017-975X)
- "DOI":10.1109/TPDS.2017.2754366
- "Funding Agency":Smithsonian
- "IEEE Terms":lasers
- "INSPEC Controlled Terms":sensors
- "INSPEC Non-Controlled Terms":controls
- "ISBN":9780262347051
- "ISSN":2169-3536
- "Issue":10
- "Mesh_Terms":biomedical
- "Publication Number":5
- "Standards Dictionary Terms":wireless
- "Standards ICS Terms":35.240.80
- "Standard Number":802.11
- "Start Page":1
- "End Page":1

检索候选列表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Artificial Intelligence and Computational Intelligence (AICI), International Conference on
Artificial Intelligence for Applications, Conference on
Artificial Intelligence, MICAI, Mexican International Conference on
Artificial Intelligence and Signal Processing (AISP), International Symposium on
Artificial Intelligence, Modelling and Simulation (AIMS), International Conference on
Artificial Intelligence (AICAI), Amity International Conference on
Artificial Intelligence, JCAI, International Joint Conference on
Artificial Intelligence and Data Processing Symposium (IDAP), International
Artificial Intelligence and Education (ICAIE), International Conference on
Artificial Intelligence in Information and Communication (ICAIIC), International Conference on
Artificial Intelligence and Knowledge Engineering (AIKE)
Artificial Intelligence and Robotics (IRANOPEN)
Artificial Intelligence Systems (ICAIS), IEEE International Conference on
Artificial Intelligence and Information Technology (ICAIIT), International Conference of
Artificial Intelligence for Industrial Applications, IEEE Proceedings of the International Workshop on
Search within results
Showing 1-25 of 187,36
Conferences (153,434
Early Access Articles
Show
All Results
Open Access
Year
Single Year
1910
From

可以通过“ ”检索短语

- 支持通配符

  “software program*” →
  software programmers/programming, 等.

- 短语检索的标准
  - 不区分大小写
  - 不区分标点符号

布尔和邻近运算符

- 可以在初始搜索界面或在优化搜索结果时再检索。
- 必须全部大写。
- 如果不包括在括号内，则优先顺序为：

ONEAR/NEAR > NOT > AND > OR

布尔和邻近运算符

	基本检索	高级检索	命令检索
AND/OR/NOT	√	√ 不在单一的检索框内	√
NEAR/ONEAR	√	X	√
字段检索	√	√	√

NEAR/# 相隔不超过#个单词，前后顺序不限

ONEAR/# 相隔不超过#个单词，前后顺序固定

通配符

	字符	描述
通配符	* ?	可用于措辞控制，可与NEAR# / ONEAR#一起使用 *：单个、多个、无 ？：单个
精确匹配	“”	对“”内的文字精确匹配查找，中间无任何其他字符

- 可在单词结尾使用
- 可在单词开头使用（左截断）
- 可以用在词的中间
- 支持全文搜索
- 支持短语搜索，但是通配符不能用于词干

使用限制

- 每次搜索的最大通配符数：5（可以进行二次搜索）
- 最小字符数：3（作者例外）
- 作者最小字符数：2
- 每个条款的最大术语数：15（高级检索/命令检索）
- 所有子句的最大搜索词数：40（不包括字段名或运算符）
- 在引号中搜索短语，如“harmonics suppression”，将被视为两个术语。
- 在near和onear运算符的任一侧都不允许使用任何数量的术语。

布尔检索

"Document Title":java software program→

题目中，“java”、“software”和“program”都会有

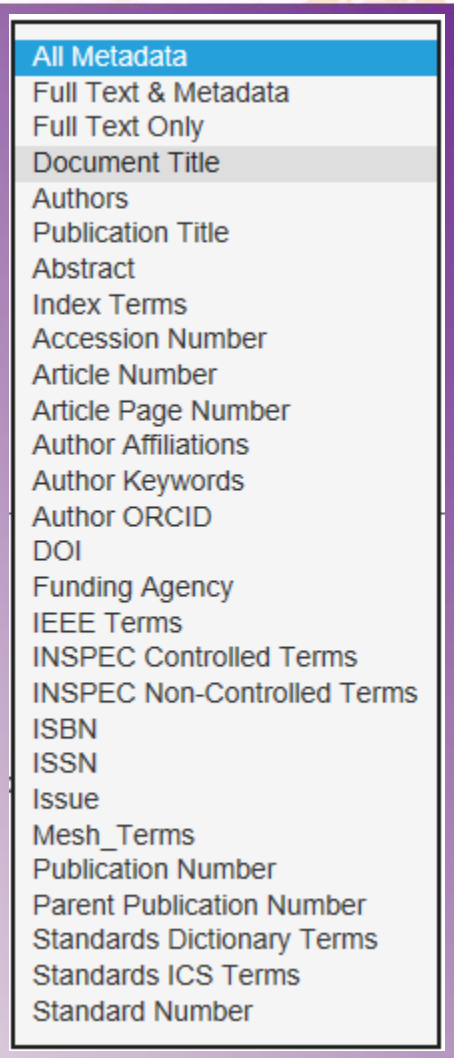
下面两条的意思是一样的:

"Document Title":bitcoin AND
"Document Title":blockchain AND
"Document Title":technology

"Document Title": bitcoin blockchain technology

"Document Title": computing NOT cloud

"Document Title": Fast ONEAR/2 "Document Title":Statistic*



清華大學圖書館 Tsinghua University Library

检索结果优化

Search within results

Download PDFs | Per Page: 25 | Export | Se

Displaying results **1-25** of **83** for **"Document Title":"software program*"**

Conferences (67)

Journals & Magazines (16)

Show

- All Results
- My Subscribed Content
- Open Access

Year

Single Year | Range

1966 — 2018

From 1966 To 2018

Author

Affiliation

Select All on Page

Sort By: Relevance

- Relevance
- Newest First
- Oldest First
- Most Cited [By Papers]
- Most Cited [By Patents]
- Publication Title A-Z
- Publication Title Z-A

The study of the development of working process oriented vo curriculum mode for software programmers

Yao Jun-Ping ; He Gui-lan ; Liao Ning

2012 7th International Conference on Computer Science & Educa

Year: 2012

Page s: 1745 - 1748

IEEE Conferences

Abstract (html) (79 Kb)

Intuitive Visualization and Objective Metric Evaluation for Software Programming Based Advanced Image Segmentation

Zhengmao Ye ; Habib Mohamadian ; Yongmao Ye

2009 WRI World Congress on Software Engineering

Year: 2009 , Volume: 4

Page s: 38 - 42

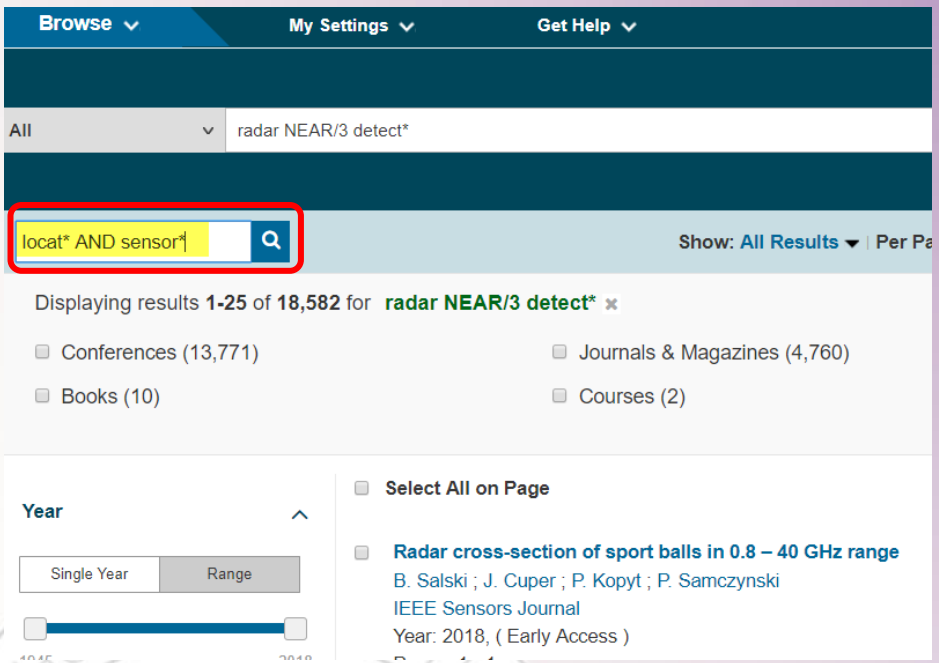
Cited by: Papers (1)

IEEE Conferences

Abstract (html) (880 Kb)

Software-programmable digital pre-distortion on the Zynq SoC

二次检索



- 检索式
- 字段命令
- 每次搜索最多有5个通配符。

高级检索

全文检索和字段检索

Advanced Search

Advanced Search | Command Search | Citation Search

Enter keywords, select fields, and select operators

Search Term: radar — in: Full Text & Metadata

AND — Search Term: detect* — in: Full Text & Metadata

AND — Search Term: Oxford Univ* — in:

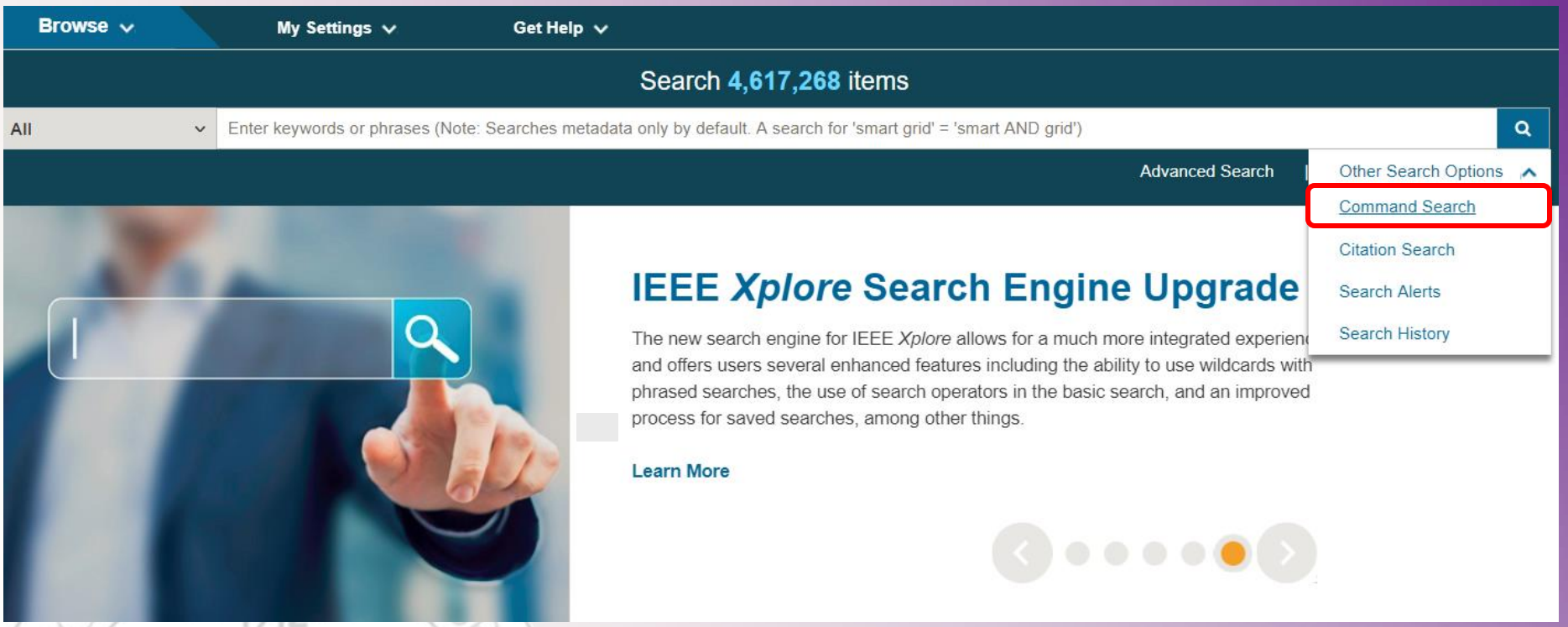
- All Metadata
- Full Text & Metadata
- Full Text Only
- Document Title
- Authors
- Publication Title
- Abstract
- Index Terms
- Accession Number
- Article Number
- Article Page Number
- Author Affiliations
- Author Keywords
- Author ORCID
- DOI
- Funding Agency
- IEEE Terms
- INSPEC Controlled Terms
- INSPEC Non-Controlled Terms
- ISBN
- ISSN
- Issue
- Mesh_Terms
- Publication Number
- Parent Publication Number
- Standards Dictionary Terms

Publication Year

- Documents Added Between: 09/18/2019 and 09/25/2019
- Specify Year Range — From: Present
- All Available Years

Reset All | Search

命令检索


Browse
My Settings
Get Help
Search 4,617,268 items
All
Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')
Advanced Search
Other Search Options
Command Search
Citation Search
Search Alerts
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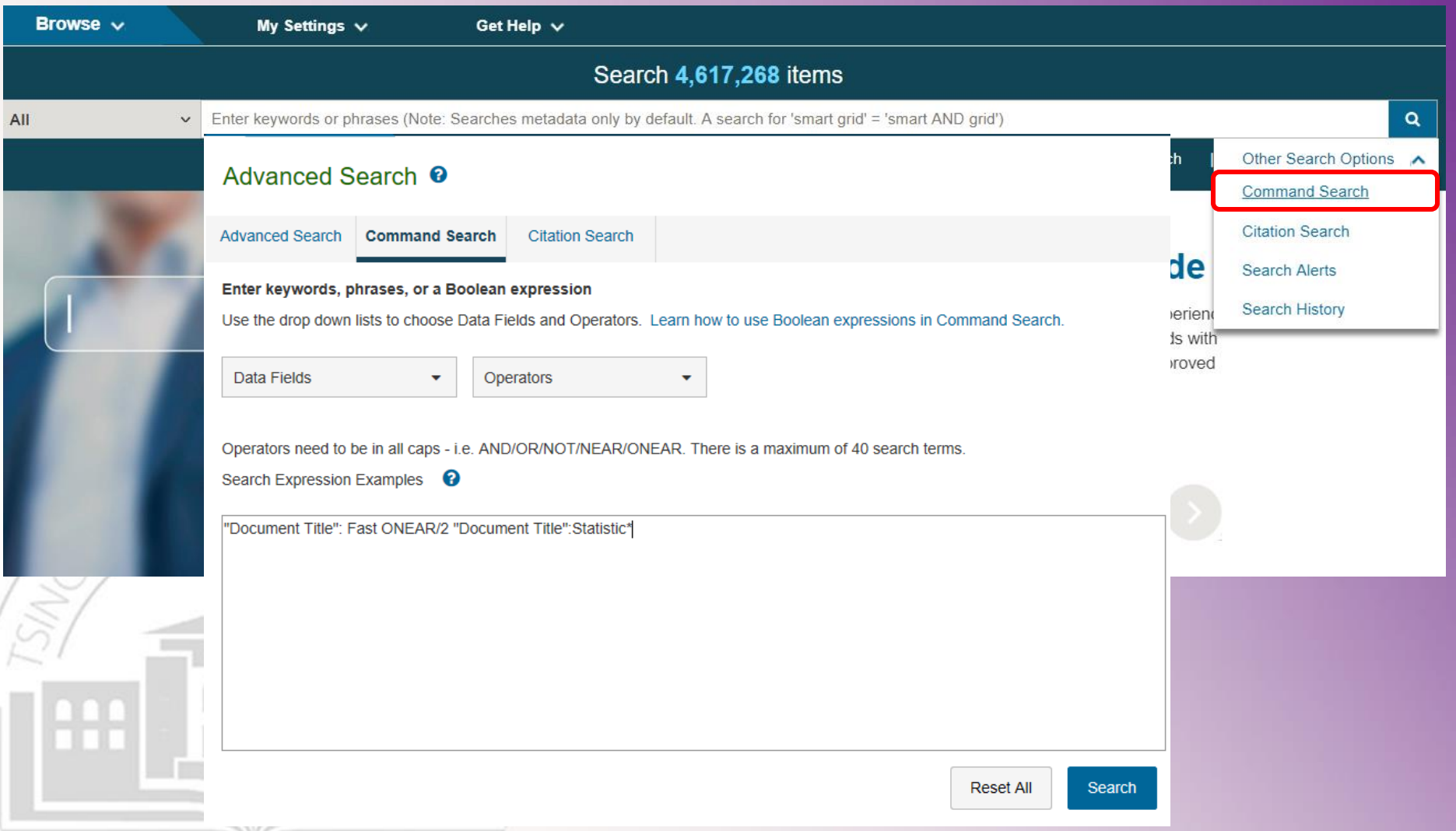
IEEE Xplore Search Engine Upgrade
The new search engine for IEEE Xplore allows for a much more integrated experien
and offers users several enhanced features including the ability to use wildcards with
phrased searches, the use of search operators in the basic search, and an improved
process for saved searches, among other things.
Learn More

命令检索


Browse
My Settings
Get Help
Search 4,617,268 items
All
Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')
Other Search Options
Command Search
Citation Search
Search Alerts
Search History
Advanced Search
Advanced Search
Command Search
Citation Search
Enter keywords, phrases, or a Boolean expression
Use the drop down lists to choose Data Fields and Operators. Learn how to use Boolean expressions in Command Search.
Data Fields
Operators
Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 40 search terms.
Search Expression Examples
"Document Title": Fast ONEAR/2 "Document Title":Statistic*
Reset All
Search

检索式实例

- "First Name":E.W. AND "Last Name":Hancock
- "Publication Title":computing AND "Volume":1 AND "Issue":1 AND "Start Page":1
- "Publication Title":engineering management AND "Publication_Year":2017 OR "Publication_Year":2018
- 搜索标准（Standards）

  P802.1Q-REV/D2.2
- 组合搜索

  (touchscreen OR (touch NEAR/2 screen)) AND haptic*
- 被空格环绕的特殊字符搜索：
  - AT&T, AT &T, AT& T and "AT & T" ✓,
  - AT & T ✗

A Completed Modeling of Local Binary Pattern Operator for Texture Classification

3 Author(s) Zhenhua Guo ; Lei Zhang ; David Zhang View All Authors

Abstract:
In this correspondence, a completed modeling of the local binary pattern (LBP) operator is proposed and an associated completed LBP (CLBP) scheme is developed for texture classification. A local region is represented by its center pixel and a local difference sign-magnitude transform (LDSMT). The center pixels represent the image gray level and they are converted into a binary code, namely CLBP-Center (CLBP_C), by global thresholding. LDSMT decomposes the image local differences into two complementary components: the signs and the magnitudes, and two operators, namely CLBP-Sign (CLBP_S) and CLBP-Magnitude (CLBP_M), are proposed to code them. The traditional LBP is equivalent to the CLBP_S part of CLBP, and we show that CLBP_S preserves more information of the local structure than CLBP_M, which explains why the simple LBP operator can extract the texture features reasonably well. By combining CLBP_S, CLBP_M, and CLBP_C features into joint or hybrid distributions, significant improvement can be made for rotation invariant texture classification.

Published in: IEEE Transactions on Image Processing (Volume: 19 , Issue: 6 , June 2010)

Page(s): 1657 - 1663
INSPEC Accession Number: 11292953
Date of Publication: 08 March 2010
DOI: 10.1109/TIP.2010.2044957
ISSN Information:
Publisher: IEEE
Sponsored by: IEEE Signal Processing Society

参考文献，施引和被引

References

Citations

By Papers | By Patents | Citation Map

Cited in Papers - IEEE (332) |

1. Xianbiao Qi, Rong Xiao, Chu
Rotation Invariant Co-Occurrer
Intelligence IEEE Transactions
View Article Full Text: PDF (2

2. Xiaofeng Qu, David Zhang,
Recognition System", *Systems*
47, no. 11, pp. 2870-2881, 201
View Article Full Text: PDF (1

3. Di Huang, Caifeng Shan, Mo
Binary Patterns and Its Applica
Cybernetics Part C: Application
781, 2011.
View Article Full Text: PDF (9

Citation Map

This view provides a high-level visual representation of references and citing documents for this article. To view the full listing, select "View All References" or "View All Citations".

View All References View All Citations

Viewing: **A Completed Modeling of Local Binary Pattern Operator for Texture Classification**

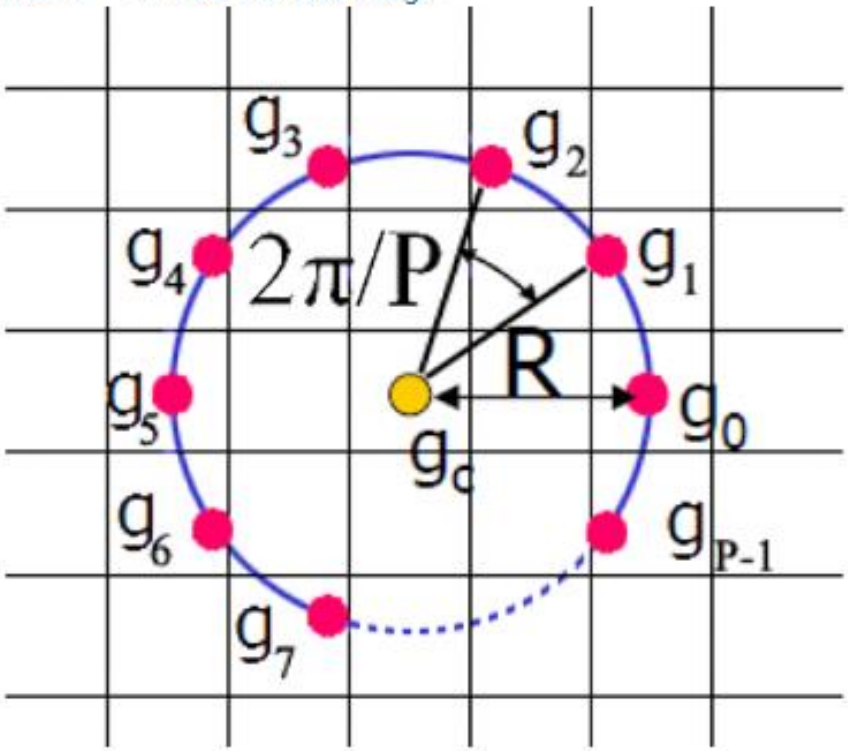
References in this Article		Citations to this Article
1 Texture features for image classification	This Article	1 Pairwise Rotation Invariant Co-Occurrence Local Binary Pattern
2 Filtering for texture classification: A comparative study		2 Door Knob Hand Recognition System
3 A model-based method for rotation invariant texture classification		3 Local Binary Patterns and Its Application to Facial Image Analysis: A Survey
4 Rotation and gray scale transform invariant texture identification using wavelet		4 Finger-Knuckle-print recognition using dynamic thresholds completed local
5 Gaussian VZ-MRF rotation-invariant features for image classification		5 A comparative analysis of local binary pattern texture classification

图形

Figures

Fig. 1.

» View in Context » View Full Size Image



Central pixel and its P circularly and evenly spaced neighbors with radius R.

代码

Year

Single Year | Range

1914 2019

From 1914 To 2019

Author

Affiliation

Publication Title

Publisher

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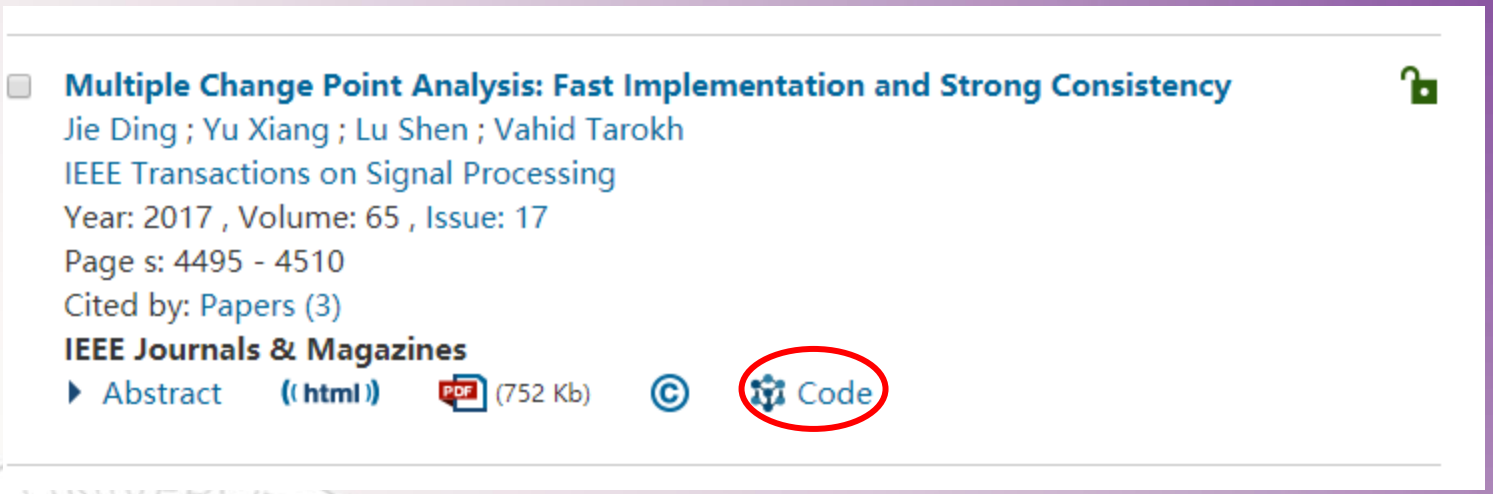

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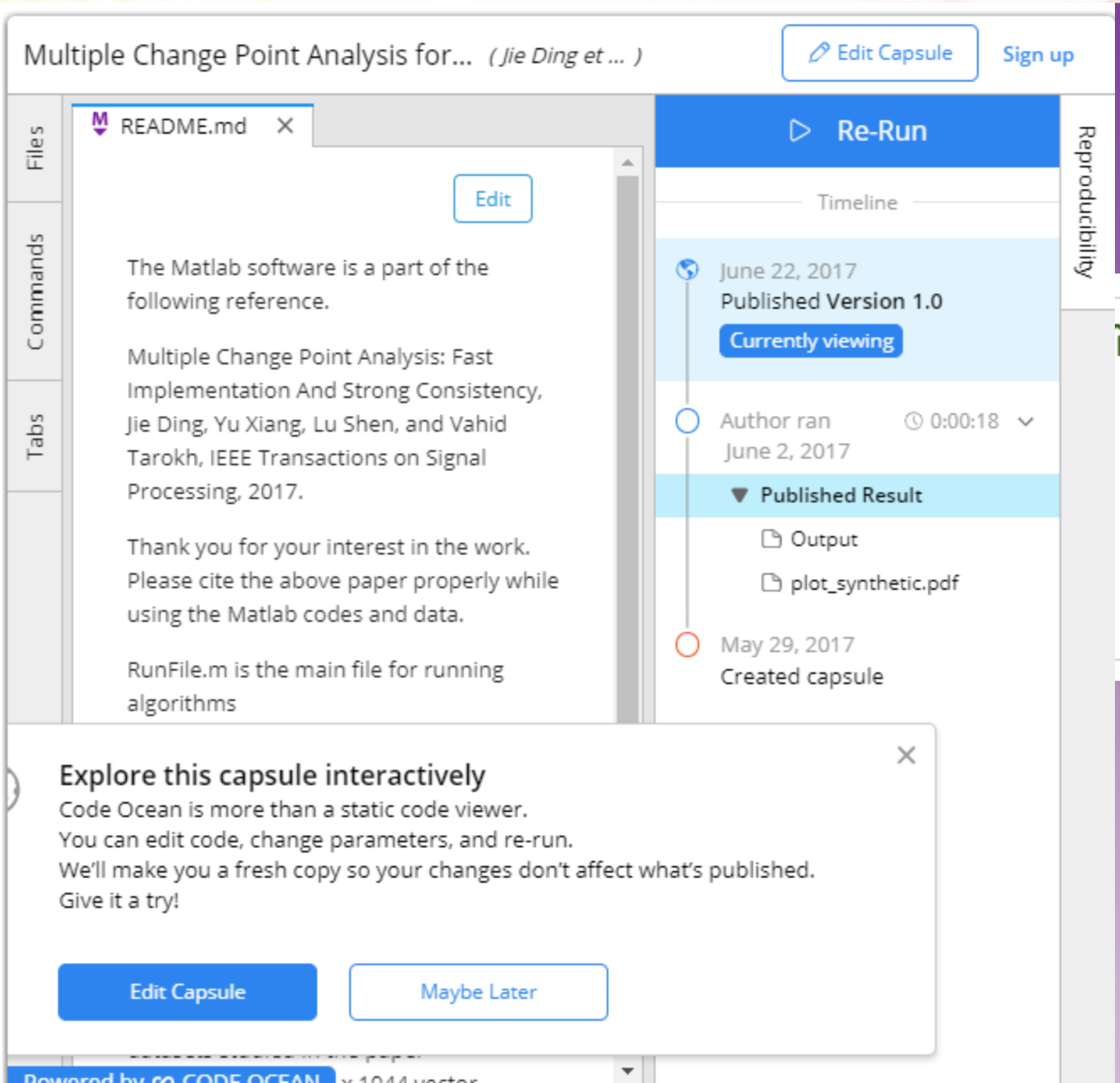
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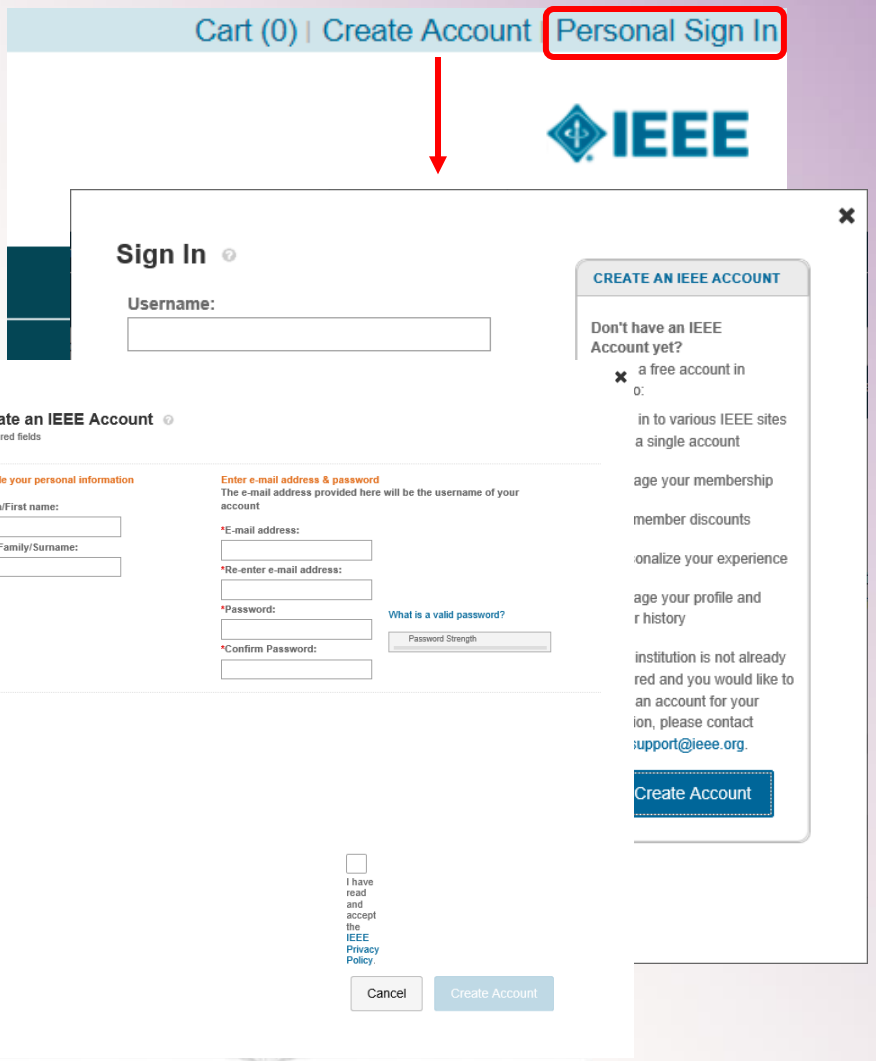

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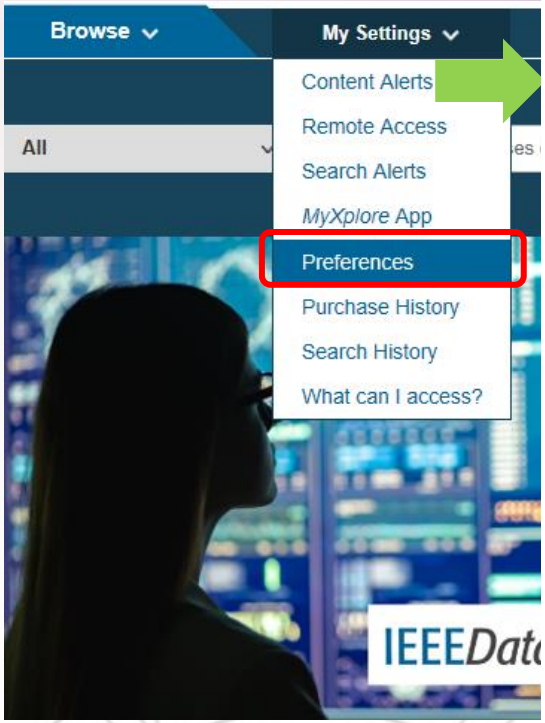

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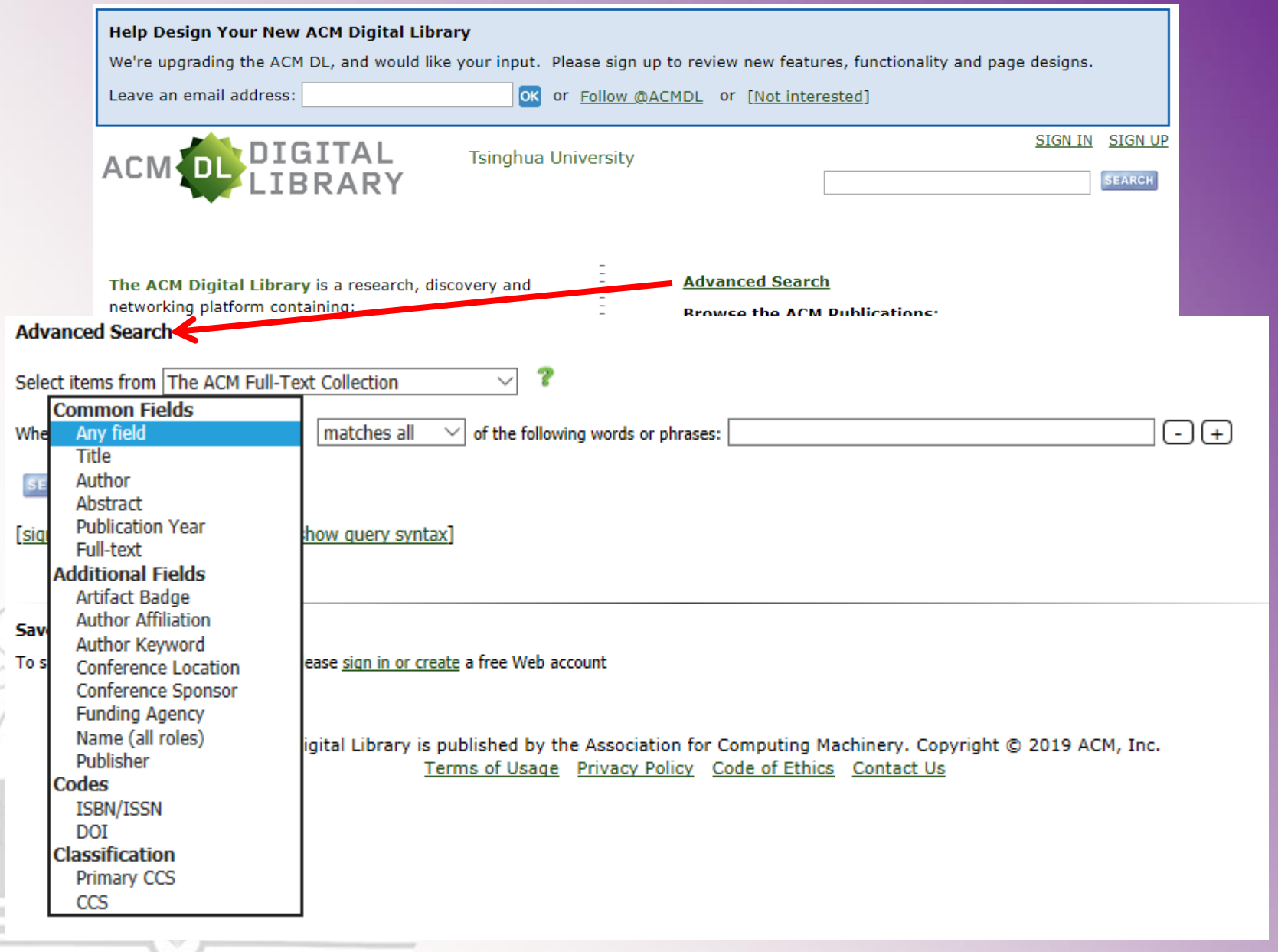
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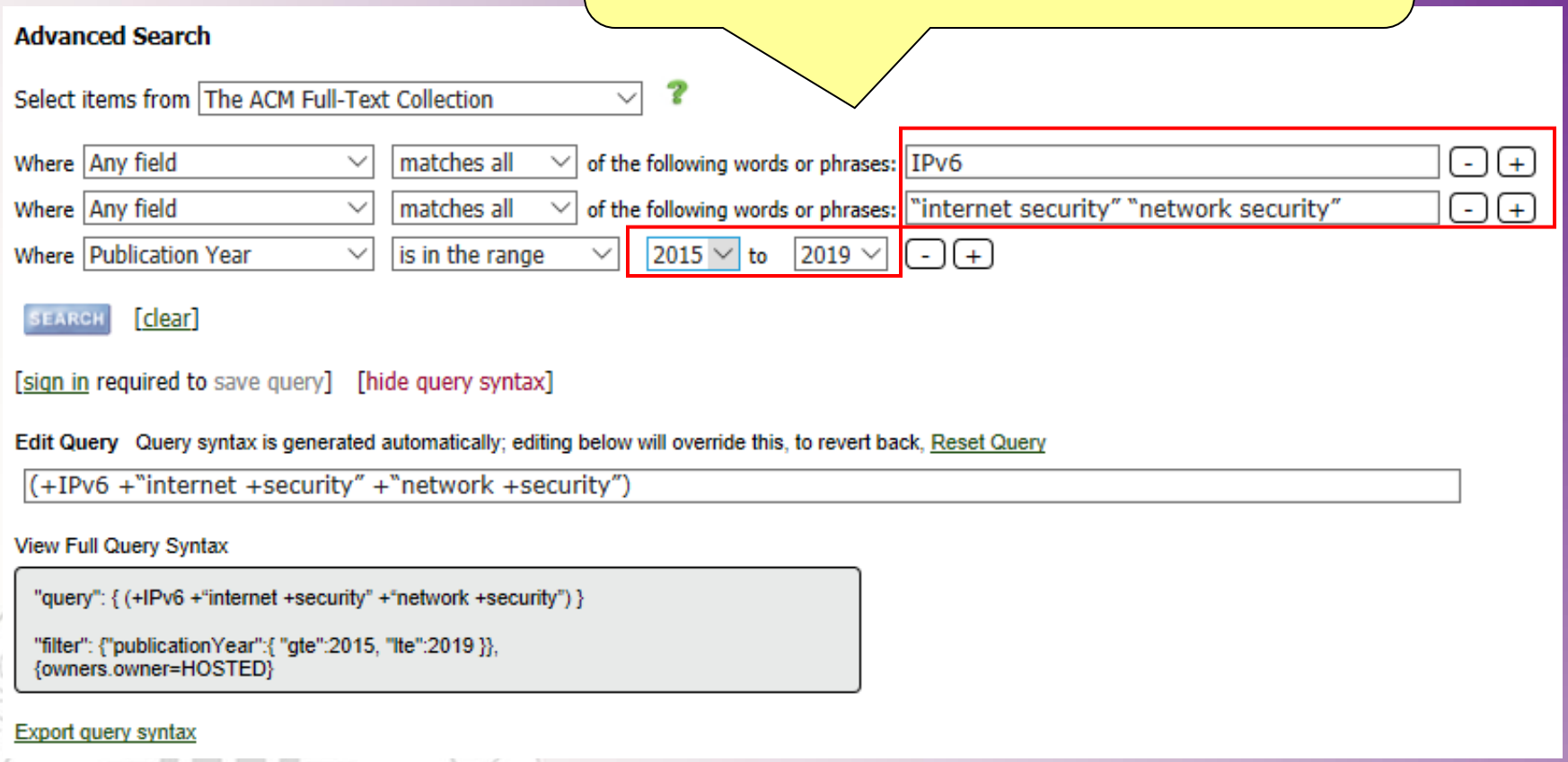

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2 Who Knocks at the IPv6 Door?: Detecting IPv6 Scanning

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Keywords: IPv6, network measurement, scanning

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- CVPR（IEEE Conference on Computer Vision and Pattern Recognition，IEEE国际计算机视觉与模式识别会议）： IEEE
- ECCV（ European Conference on Computer Vision，欧洲计算机视觉国际会议）： Springer Link

再来两篇咱们学校2019.7的热点/高被引论文：

- Strategic Bidding and Compensation Mechanism for a Load Aggregator With Direct Thermostat Control Capabilities： IEEE
- Sketch2Photo: Internet Image Montage：ACM
- Effective Uyghur Language Text Detection in Complex Background Images for Traffic Prompt Identification： IEEE