IEEE Xplore 檢索技巧與熱門研究追蹤

學術部講師: 鄭琳祺 Sylvia Cheng

IEEE
Advancing Technology for Humanity

目錄

- IEEE與IEEE Xplore簡介
- 利用IEEE Xplore優化功能提升檢索效率
- 個人化設定

IEEE與IEEE Xplore簡介

the Institute of Electrical and Electronics Engineers

電機電子工程師學會

IEEE, pronounced "Eye-triple-E"

IEEE

39個專業協會

IEEE Societies

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- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
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- IEEE Communications Society
- IEEE Computational Intelligence Society
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- IEEE Control Systen
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- IEEE Electron Devic
- IEEE Electronics Pa
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- IEEE Intelligent Transportation Systems Society
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- IEEE Society on Social Implications of Technology
- IEEE Solid-State Circuits Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society

IEEE

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Kurt E. Petersen
Contributions to and leadership in the development and commercialization of innovative technologies in the field of MEMS

2020

Chenming Hu
For a distinguished career of developing and putting into practice semiconductor models, particularly 3D device structures, reinforcing Moore's Law for decades

2021

Jacob Ziv
For fundamental contributions to information theory and data compression technology, and distinguished research leadership

2022

Asad M. Madni
For pioneering contributions to the development and commercialization of innovative sensing and systems technologies, and for distinguished research leadership.

2023

Vinton (Vint) G. Cerf
For co-creating the Internet architecture and providing sustained leadership in its phenomenal growth in becoming society's critical infrastructure.

IEEE

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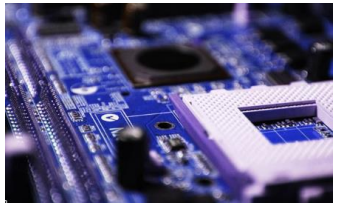
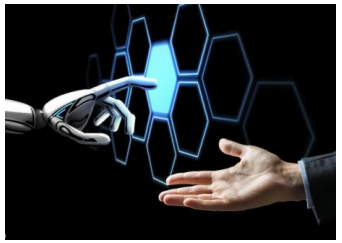
  - *IEEE* ***Electron Devices*** *Magazine*
  - *IEEE Transactions on* ***Energy Markets, Policy and Regulation***
  - *IEEE Transactions on Industrial* ***Cyber-Physical Systems***
  - *IEEE Transactions on* ***Radar Systems***
- **Coming in 2024:**
  - ***IEEE Transactions on Materials for Electron Devices***
  - ***IEEE Reliability Magazine***
  - ***IEEE Robotics and Automation Practice***





*Please note this is a tentative list and is subject to change.

IEEE Conferences Continue to Address Growing Areas of Research in New and Emerging Technologies

IEEE conferences continue to address growing areas of research that transform our lives. Below are some examples of conferences published in 2023 covering these innovative technologies:

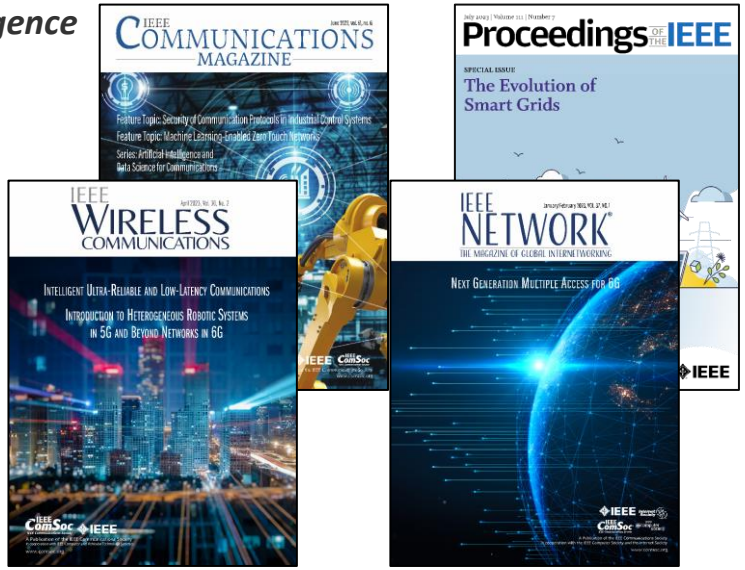
- 2023 IEEE International Conference on **Acoustics, Speech and Signal Processing** (ICASSP)
- 2023 IEEE 2nd International Conference on **AI in Cybersecurity**
- 2023 IEEE 21st Symposium on **Applied Machine Intelligence and Informatics** (SAMI)
- 2023 3rd International Conference on **Artificial Intelligence and Smart Energy** (ICAIS)
- 2023 IEEE 8th International Conference on **Big Data Analytics** (ICBDA)
- 2023 6th Conference on **Cloud and Internet of Things** (CIoT)
- 2023 IEEE 20th Consumer **Communications & Networking** Conference (CCNC)
- 2023 **Optical Fiber Communications** Conference (OFC) More…….

Note: this is a partial listing of new conferences and is not all-inclusive or final. Information is subject to change.

The Top-Cited Publications in the Field are in IEEE Xplore

IEEE has 15 of the Top 20 Journals in Electrical & Electronic Engineering

1. *Nature Electronics*
2. ***IEEE Transactions on Pattern Analysis and Machine Intelligence***
3. ***Proceedings of the IEEE***
4. ***IEEE Journal on Selected Areas in Communications***
5. ***IEEE Signal Processing Magazine***
6. *njp Flexible Electronics*
7. ***IEEE Wireless Communications Magazine***
8. *eTransportation*
9. ***IEEE Transactions on Fuzzy Systems***
10. *Progress in Quantum Electronics*
11. ***IEEE Communications Magazine***
12. *Protection and Control of Modern Power Systems*
13. ***IEEE Internet of Things Journal***
14. ***IEEE Transactions on Image Processing***
15. ***IEEE Transactions on Medical Imaging***
16. ***IEEE Transactions on Neural Networks and Learning Systems***
17. ***IEEE Transactions on Wireless Communications***
18. ***IEEE Transactions on Smart Grid***
19. ***IEEE Network***
20. ***IEEE Transactions on Knowledge and Data Engineering***



IEEE Quality Makes an Impact

Journal Citation Reports® by Impact Factor

IEEE publishes:

- **8 of the top 10** journals in **Electrical and Electronic Engineering**
- **9 of the top 10** journals in **Telecommunications**
- **The top 3** journals in **Computer Science: Cybernetics**
- **3 of the top 5** journals in **Automation & Control Systems**
- **3 of the top 5** journals in **Computer Science: Artificial Intelligence**
- **3 of the top 5** journals in **Computer Science: Hardware & Architecture**
- **3 of the top 5** journals in **Computer Science: Information Systems**
- **3 of the top 5** journals in **Computer Science: Software Engineering**
- **3 of the top 5** journals in **Imaging Science and Photographic Technology**

Source: Journal Citation Reports (Clarivate Analytics, 2022)

Each year, the Journal Citation Reports® (JCR) from Web of Science Group examines the influence and impact of scholarly research journals. JCR reveals the relationship between citing and cited journals, offering a systematic, objective means to evaluate the world's leading journals.

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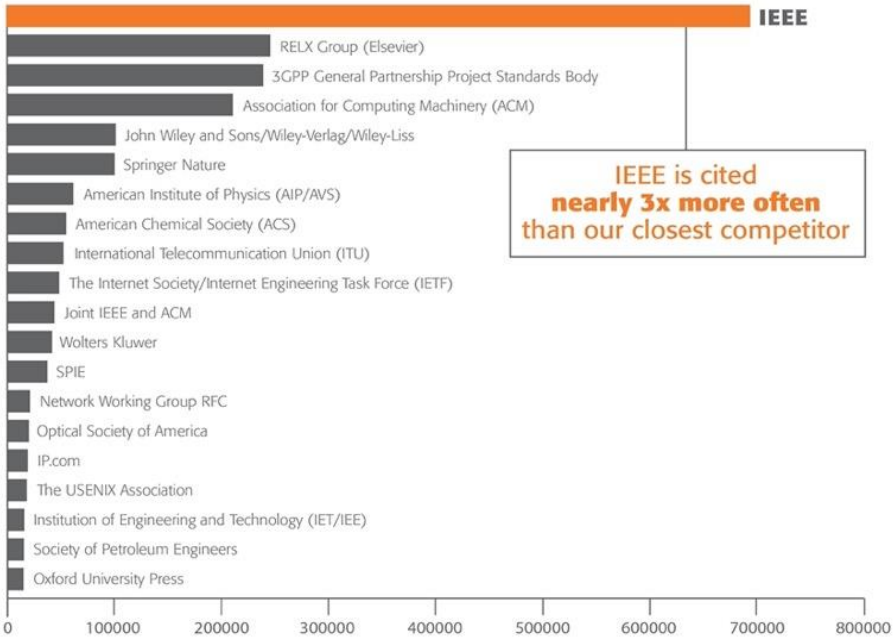

Number of U.S. Patent References from Top 50 Companies to Top 20 Publishers

Source: 1790 Analytics LLC, Copyright 2023

- based on number of references to papers/standards/conferences from 2002–2022

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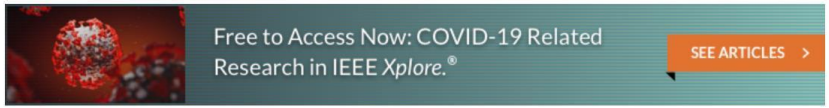

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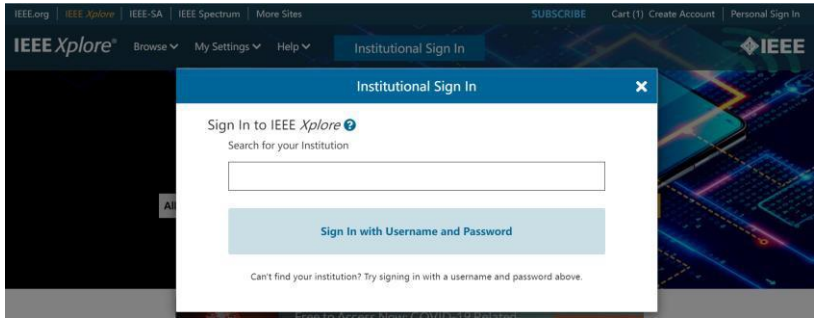

- 疫情以來，IEEE第一時間響應，幫助所有科研人員在居家期間，無障礙遠端連線IEEE Xplore資料庫資源。

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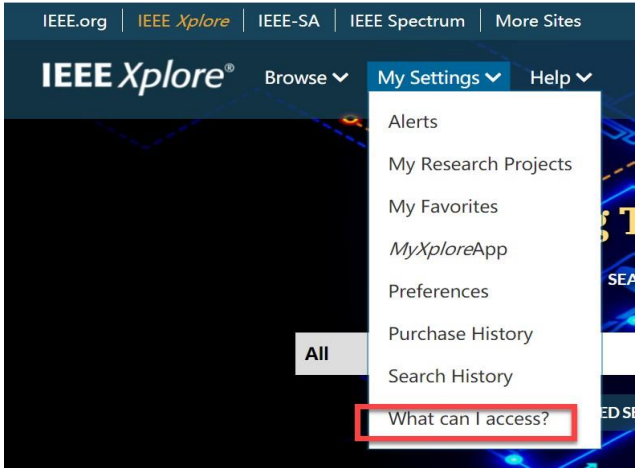

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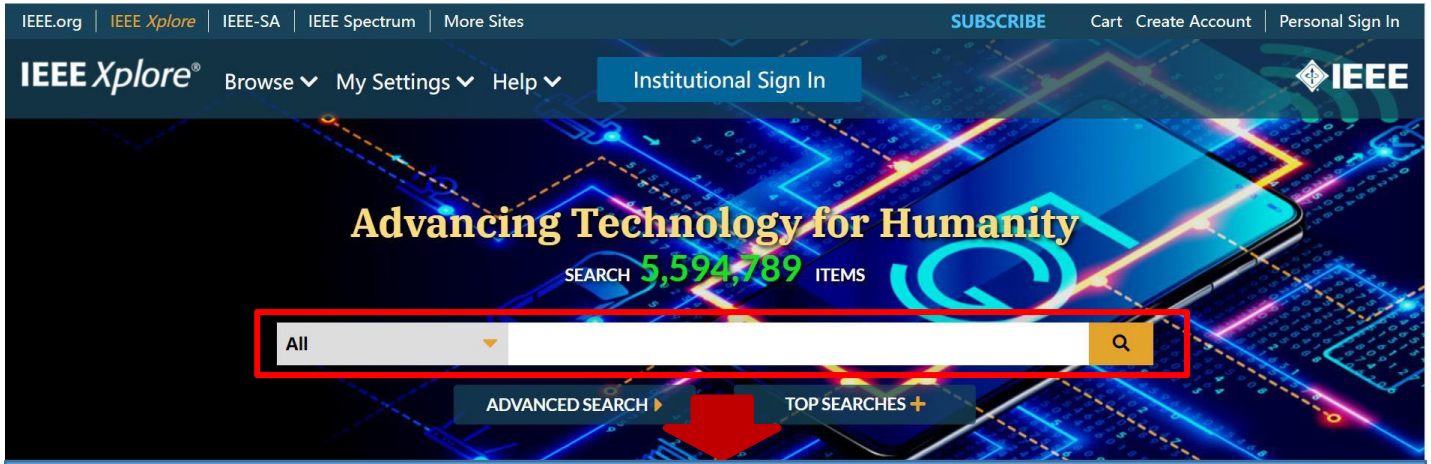

一框式檢索(Global Search)

1. 預設檢索內容：metadata only
2. 檢索詞之間的默認關係：AND　　ie. smart grid= smart AND grid
3. 支援命令檢索：　　ie. "Abstract":ofdm AND "Publication Title":communications
4. 自動獲取詞根：pluralized nouns, verb tenses, and British/American spelling variations
5. 精確檢索使用雙引號：片語、固定搭配　　ie. “wind energy conversion”
6. 模糊檢索使用*和?　　ie. robot*
7. 檢索詞不區分大小寫，檢索運算(如:AND, OR, NOT)全部大寫

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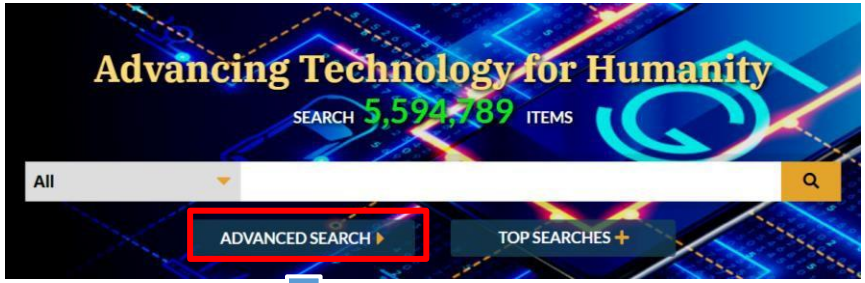

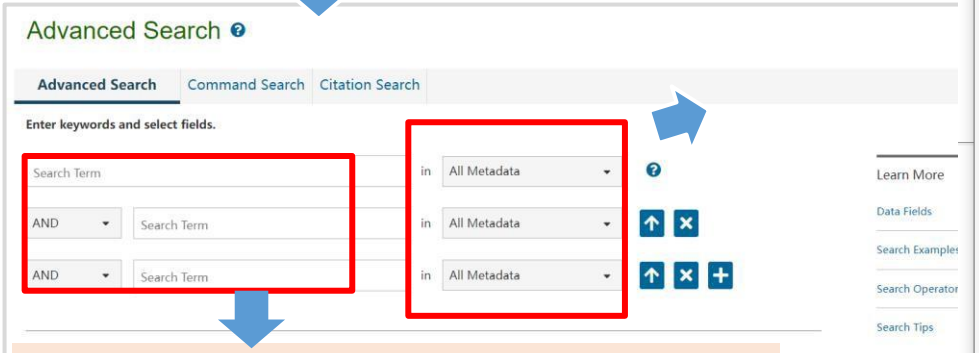

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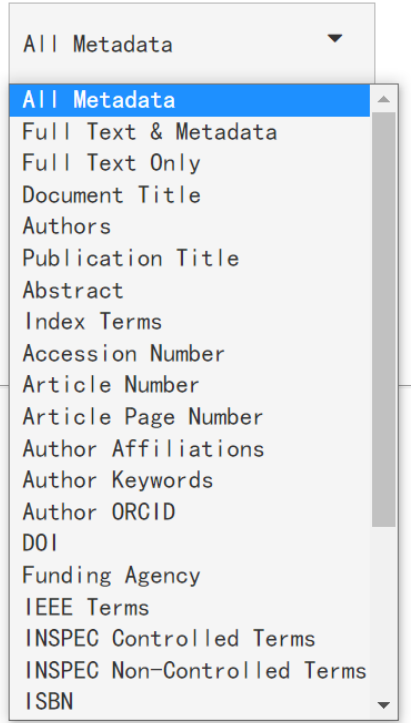

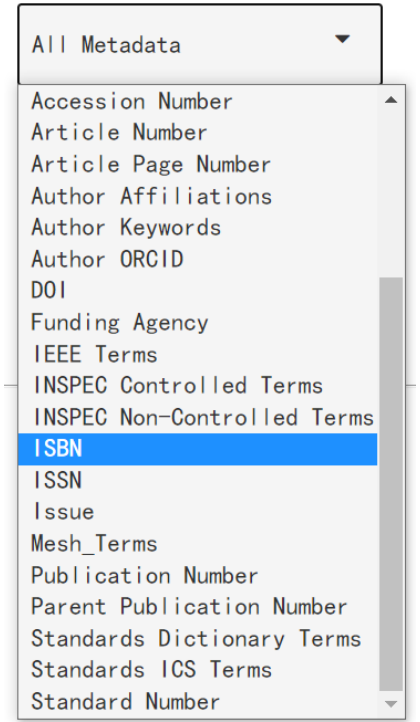

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HAOYU WANG; YONG LIU; ZIFENG HAN; JIANZHANG WU

2020 International Conference on Artificial Intelligence and Education (ICAIE)

Year: 2020 | Conference Paper | Publisher: IEEE

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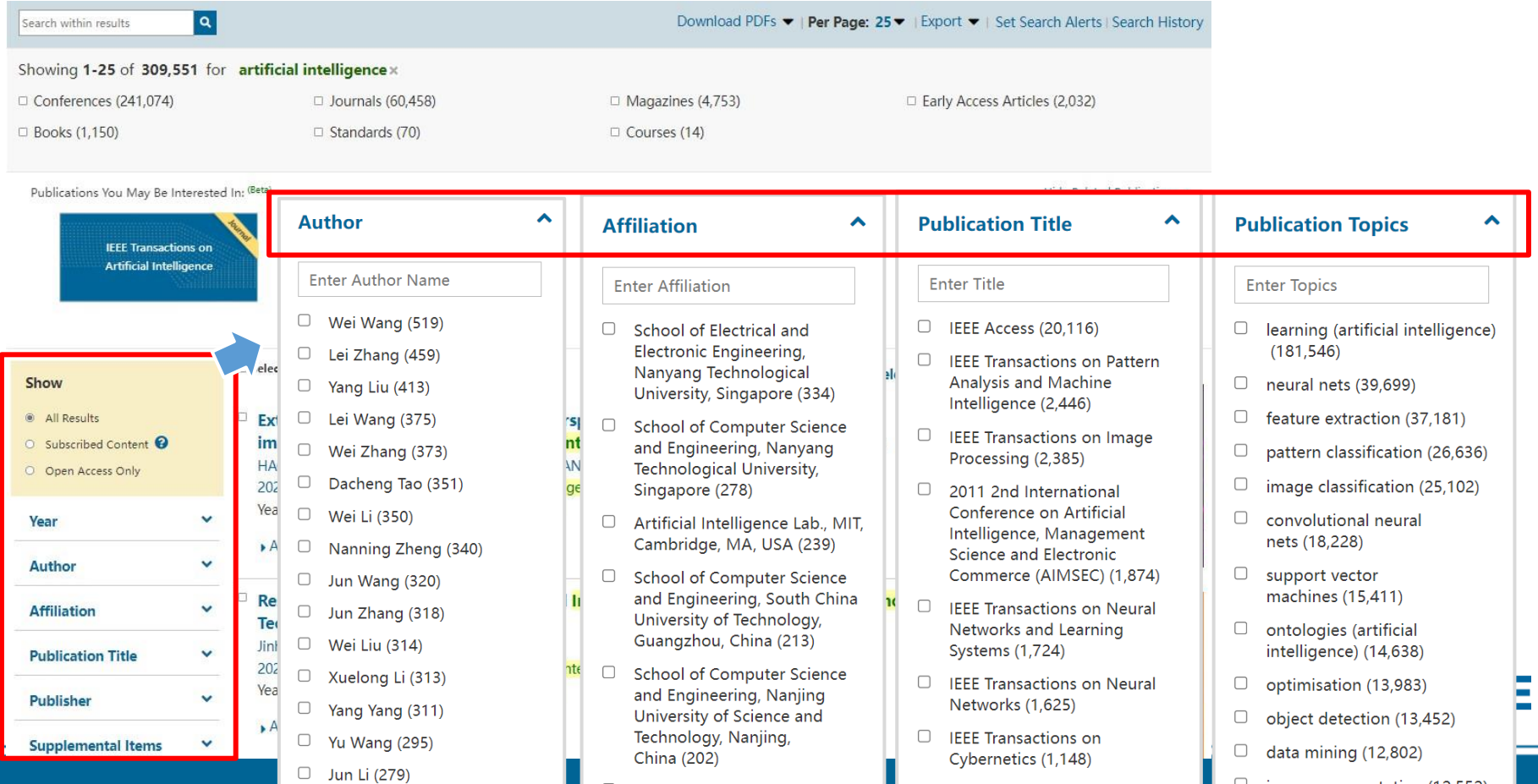

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EE

文章細節頁面

Image Segmentation Using Deep Learning: A Survey

Shervin Minaee; Yuri Boykov; Fatih Porikli; Antonio Plaza; Nasser Kehtarnavaz; Demetri Terzopoulos

IEEE Transactions on Pattern Analysis and Machine Intelligence

Year: 2022 | Volume: 44, Issue: 7 | Journal Article | Publisher: IEEE

Cited by: Papers (91)

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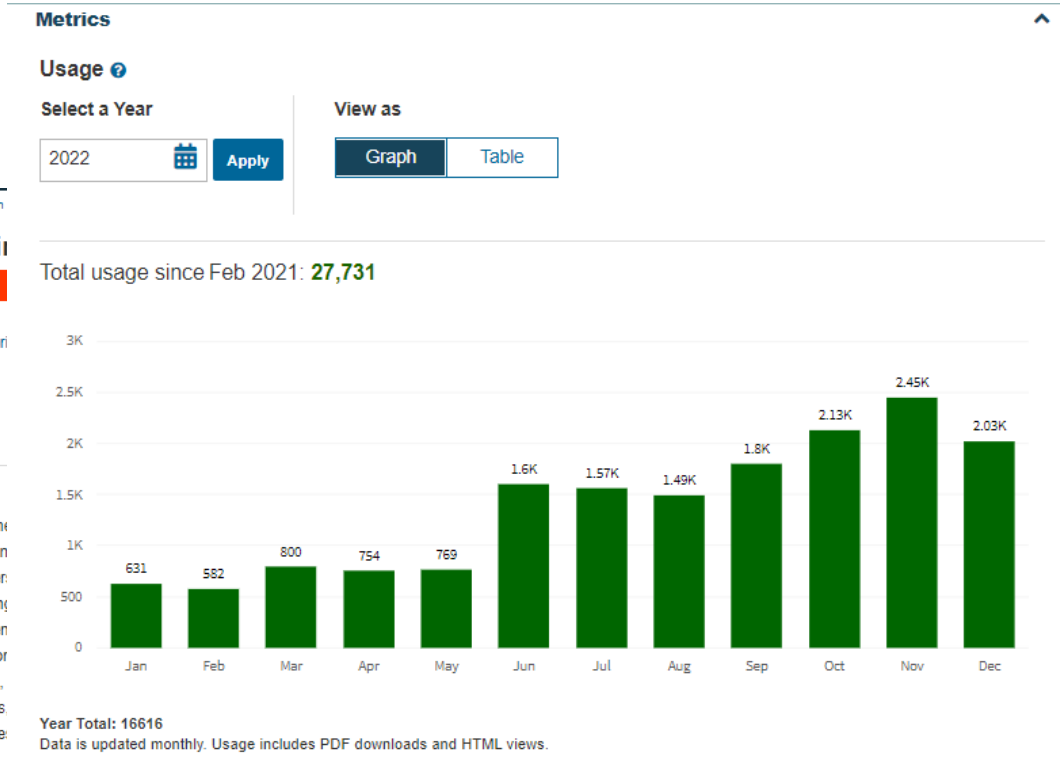

Image Segmentation Using Deep Learning: A Survey

文章細節頁面

Publisher: IEEE | Cite This | PDF

Shervin Minaee ; Yuri Boykov ; Fatih Porikli ; Antonio Plaza ; Nasser Kehtarnavaz ; Demetri Terzopoulos | All Authors

HTML互動式線上閱讀

Abstract:
Image segmentation is a key task in computer vision and image processing with important applications such as scene understanding, medical image analysis, robotic perception, video surveillance, augmented reality, and image compression, among others, and numerous segmentation algorithms are found in the literature. Against this backdrop, the broad success of deep learning (DL) has prompted the development of new image segmentation approaches leveraging DL models. We provide a comprehensive review of this recent literature, covering the spectrum of pioneering efforts in semantic and instance segmentation, including convolutional pixel-labeling networks, encoder-decoder architectures, multiscale and pyramid-based approaches, recurrent networks, visual attention models, and generative models in adversarial settings. We investigate the relationships, strengths, and challenges of these DL-based segmentation models, examine the widely used datasets, compare performances, and discuss promising research directions.

Published in: IEEE Transactions on Pattern Analysis and Machine Intelligence (Volume: 44 , Issue: 7, 01 July 2022)

Page(s): 3523 - 3542
INSPEC Accession Number: 21762516
Date of Publication: 17 February 2021
DOI: 10.1109/TPAMI.2021.3059968
ISSN Information:
Publisher: IEEE
PubMed ID: 33596172

推薦文獻

More Like This

An Augmentation Strategy for Medical Image Processing Based on Statistical Shape Model and 3D Thin Plate Spline for Deep Learning
IEEE Access
Published: 2019

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Fig. 2.

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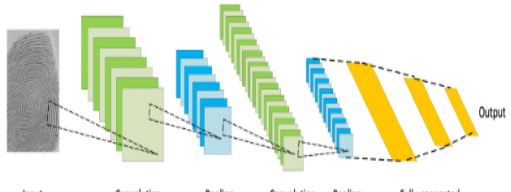

Architecture of CNNs. From [15].

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Fig. 3.

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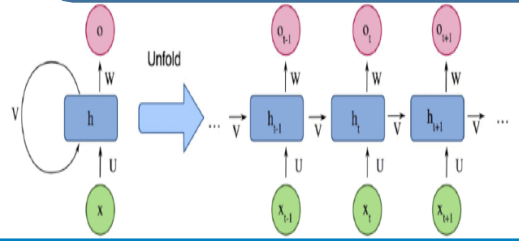

seed generation technique with deep reinforcement learning that learns to solve the interactive segmentation problem. Object-Contextual Representations (OCR) [42] learns object regions and the relation between each pixel and each object region, augmenting the representation pixels with the object-contextual representation. Additional models and methods include BoxSup [119], Graph Convolutional Networks (GCN) [120], Wide ResNet [121], Exfuse

120. C. Peng, X. Zhang, G. Yu, G. Luo and J. Sun, "Large kernel matters — Improve semantic segmentation by global convolutional network", *Proc. IEEE Conf. Comput. Vis. Pattern Recognit.*, pp. 4353-4361, 2017.

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Semantic Pr [129], gated shape Net)

快速定位參考文獻

Mean Pixel Accuracy (MPA) is an extension of PA, in which the ratio of correct pixels is computed in a per-class manner and then averaged over the total number of classes

$$\text{MPA} = \frac{1}{K+1}\sum_{i=0}^{K}\frac{p_{ii}}{\sum_{j=0}^{K} p_{ij}}. \qquad (2)$$

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```
\begin{equation*} \text{MPA}= \frac{1}{K+1}
\sum _{i=0}^K \frac{p_{ii}}{\sum _{j=0}^K
p_{ij}}. \tag{2} \end{equation*}
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文章細節頁面– 關鍵字

Keywords

IEEE Keywords

Image segmentation, Computer architecture, Semantics, Deep learning, Computational modeling, Generative adversarial networks, Logic gates

INSPEC: Controlled Indexing

augmented reality, computer vision, data compression, image coding, image processing, image segmentation, learning (artificial intelligence), medical image processing, video surveillance

INSPEC: Non-Controlled Indexing

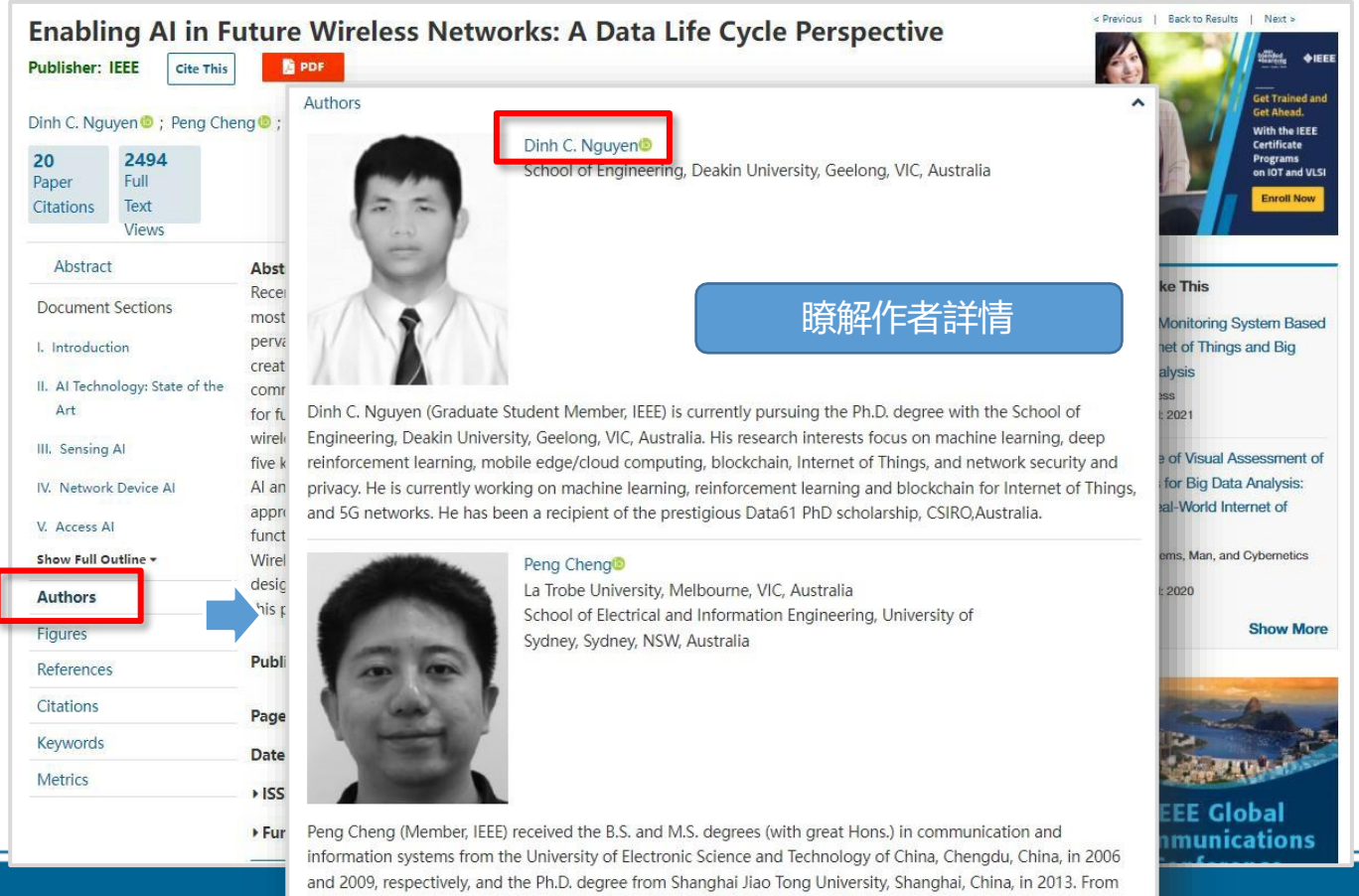
image processing, medical image analysis, image compression, numerous segmentation algorithms, deep learning, image segmentation, semantic instance segmentation, DL-based segmentation models

Author Keywords

Image segmentation, deep learning, convolutional neural networks, encoder-decoder models, recurrent models, generative models, semantic segmentation, instance segmentation, panoptic segmentation, medical image segmentation

MeSH Terms

文章細節頁面– 作者介紹


Enabling AI in Future Wireless Networks: A Data Life Cycle Perspective
Publisher: IEEE
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20 Paper Citations
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Authors
Dinh C. Nguyen
School of Engineering, Deakin University, Geelong, VIC, Australia
瞭解作者詳情
Dinh C. Nguyen (Graduate Student Member, IEEE) is currently pursuing the Ph.D. degree with the School of Engineering, Deakin University, Geelong, VIC, Australia. His research interests focus on machine learning, deep reinforcement learning, mobile edge/cloud computing, blockchain, Internet of Things, and network security and privacy. He is currently working on machine learning, reinforcement learning and blockchain for Internet of Things, and 5G networks. He has been a recipient of the prestigious Data61 PhD scholarship, CSIRO,Australia.
Peng Cheng
La Trobe University, Melbourne, VIC, Australia
School of Electrical and Information Engineering, University of Sydney, Sydney, NSW, Australia
Peng Cheng (Member, IEEE) received the B.S. and M.S. degrees (with great Hons.) in communication and information systems from the University of Electronic Science and Technology of China, Chengdu, China, in 2006 and 2009, respectively, and the Ph.D. degree from Shanghai Jiao Tong University, Shanghai, China, in 2013. From
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Publisher

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Conference Location

A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques

Guohua Wu; Xupeng Wen; Ling Wang; Witold Pedrycz; P. N. Suganthan

IEEE Transactions on Evolutionary Computation

Year: 2021 | Early Access Article | Publisher: IEEE

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Media

Description

This is the supplementary file of the article "A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques" published in IEEE Transactions on Evolutionary Computation. This file contains two parts. One part includes the details of the 57 real-world constrained optimization problems, which are used in Section IV in the manuscript. Another part is the experimental results, including the best/mean/median values of the ten comparison algorithms on the 57 real-world constrained optimization problems, as the supplementary data of Table I and Table II in the manuscript.

檢索結果頁面：研究補充資料(2/4)

Author

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Publication Title

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Supplemental Items

- Media (36,317)
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Conference Location

SR Latch: The Wrong Introduction to Digital Memory
Abdulhadi Shoufan
2020 IEEE International Symposium on Circuits and Systems (ISCAS)
Year: 2020 | Conference Paper | Publisher: IEEE

Abstract (html) (128 Kb) Video

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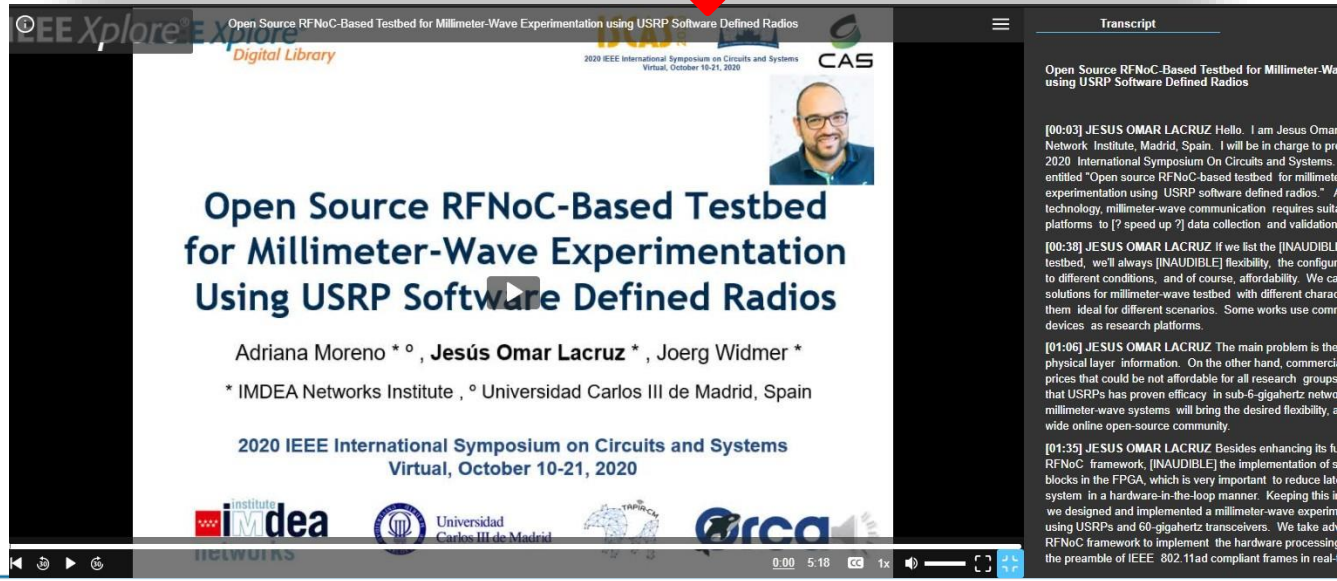

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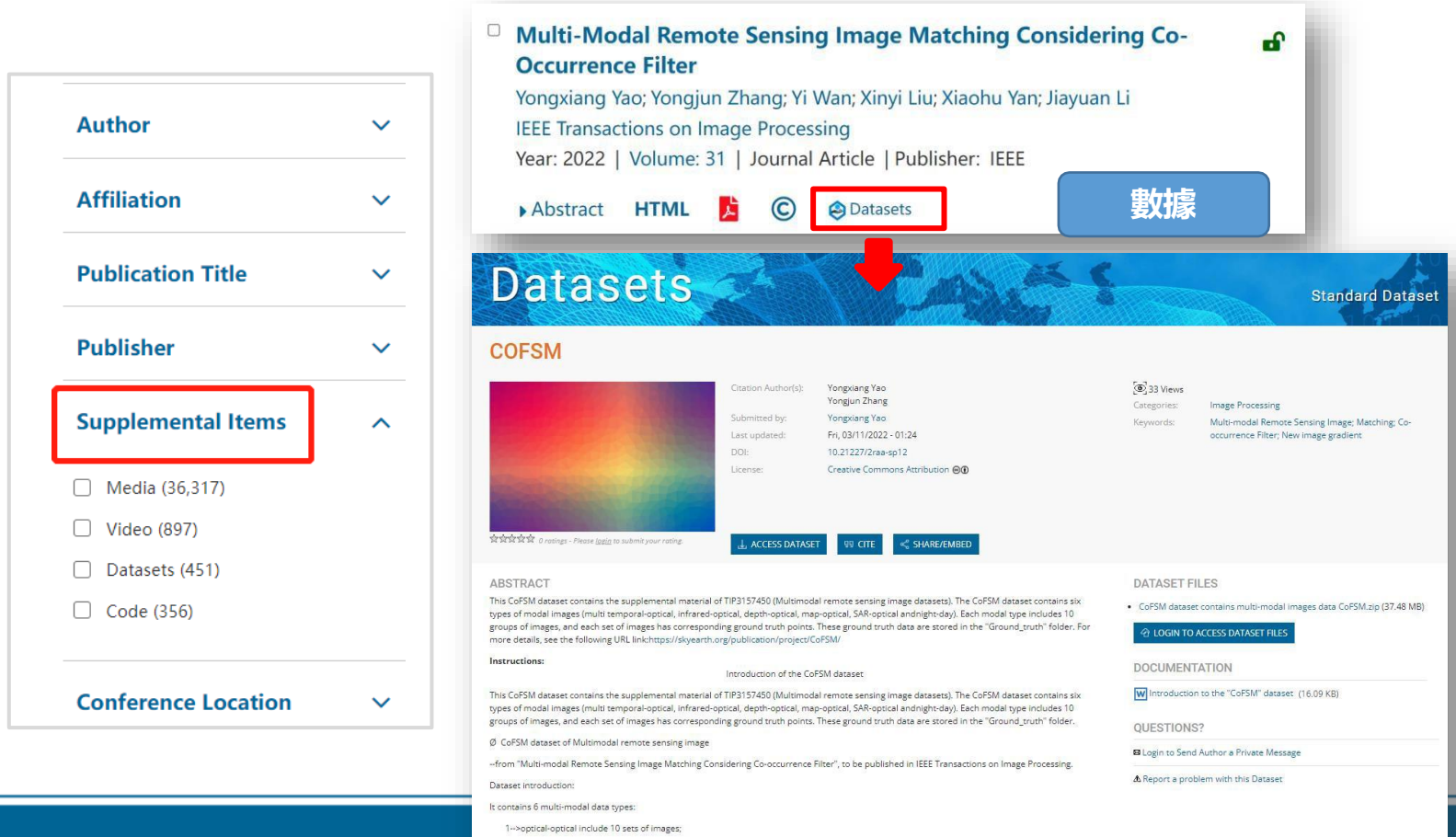

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A Novel Mean-Shift Algorithm for Data Clustering

Claude Cariou; Steven Le Moan; Kacem Chehdi

IEEE Access

Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

Abstract HTML Code

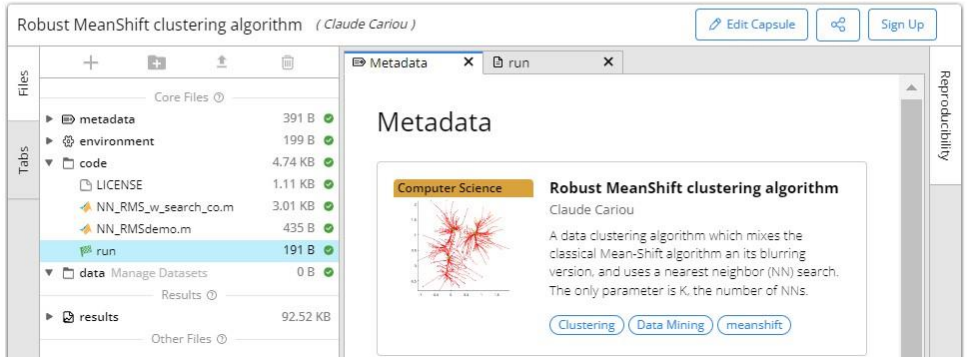
代碼

Code & Datasets

Code | Dataset

This article includes code hosted on Code Ocean, a computational reproducibility platform that allows users to view, modify, run, and download code included with IEEE *Xplore* articles. NOTE: A Code Ocean user account is required to access functionality in the capsule below.

Code: MATLAB Robust MeanShift clustering algorithm



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Choosing Representation, Mutation, and Crossover in Evolutionary Algorithms

Publisher: IEEE | Cite This | PDF | Immersive Article

Alexander Dockhorn; Simon Lucas | All Authors

Return to main article

Choosing Representation, Mutation, and Crossover in Genetic Algorithms

An interactive article on using genetic algorithms to solve the 8-Queens problem. Learn how the choice of representation and operators affects your genetic algorithm.

Authors:
Alexander Dockhorn | Leibniz University, Hannover
Simon Lucas | Queen Mary University, London

Date of Publication
Nov. 26, 2021

Indicates interactive elements

Contents:
I. INTRODUCTION | II. REPRESENTATION | III. MUTATION | IV. CROSSOVER | V. FROM THEORY TO PRACTICE | VI. CONCLUSION

I. INTRODUCTION

Evolutionary algorithms (EAs) can be used to solve plenty of tasks using the power of evolutionary optimization. They belong to the family of biologically inspired meta-heuristics and adopt principles from biological evolution to modify, select and iteratively improve a set of candidate solutions (also called a population) to an optimization problem. While many types of EAs exist, this work will

Do you think you are up to the task of solving the puzzle on your own?
Go ahead and try it yourself to find a solution:

Drag and drop queens to change their position. Try to position all queens such that no two queens share the same row, column, or diagonal. Queens that threaten each other will be highlighted in red. In case you found a solution all queens will be highlighted in green.

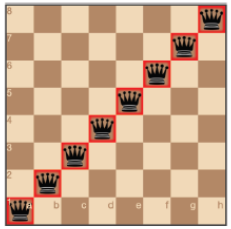

Figure 3:
Introducing the 8-Queens problem.

II. PREPRESENTATION

An individual needs to represent the solution that can be applied to the problem. Here, it needs to encode the positions of queens on a chessboard. Let's first think, about the basic properties of our task and its likely solutions:

1. a chessboard offers 64 fields arranged in an 8×8 grid.
2. the solution consists of exactly 8 queens.
3. each row can include only one queen; otherwise, they would threaten each other.
4. each column can include only one queen; otherwise, they would threaten each other.
5. each diagonal can include only one queen; otherwise, they would threaten each other.

Such requirements can be used to further constrain the optimization task. Each added constraint will make some of the unconstrained solution candidates invalid (since they violate the constraint) and therefore directly impact the size of the search space. In the following, a set of optimization tasks constructed by considering combinations of the above constraints will be considered. For each of those, we will be able to identify different decision variables (phenotype) and search for suitable encodings (genotype). Overall, this results in different representations that can be constructed for solving the 8-Queens problem, which allows their comparison with each other.

*In partnership with IEEE Computational Intelligence Society

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Click the action buttons to see state transitions in the MDP for improving a child's sleep quality based on different actions.

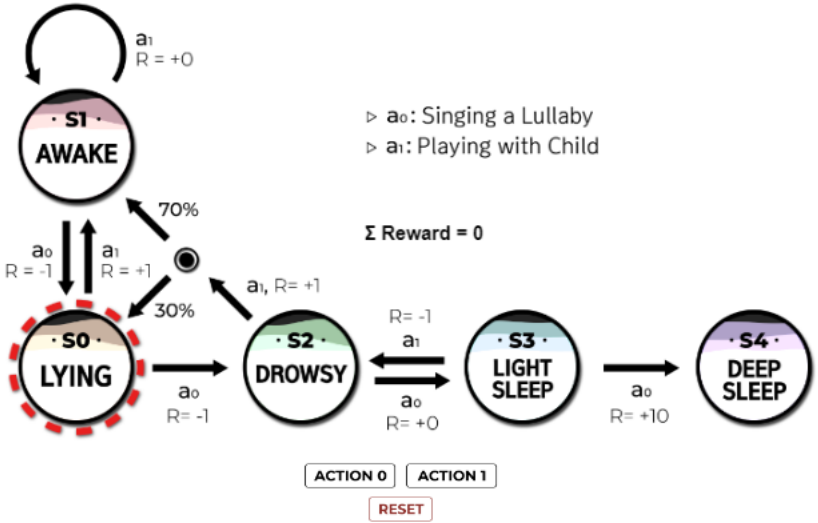

Figure 6:

Example of an MDP for improving a child's sleep quality.

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Try clicking the black buttons under the WSI to observe the different characteristics of the three kinds of regions at different magnifications.

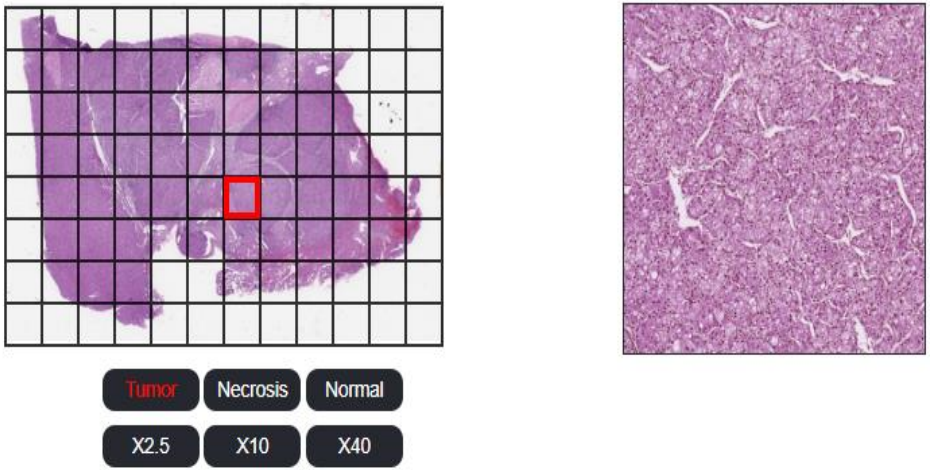
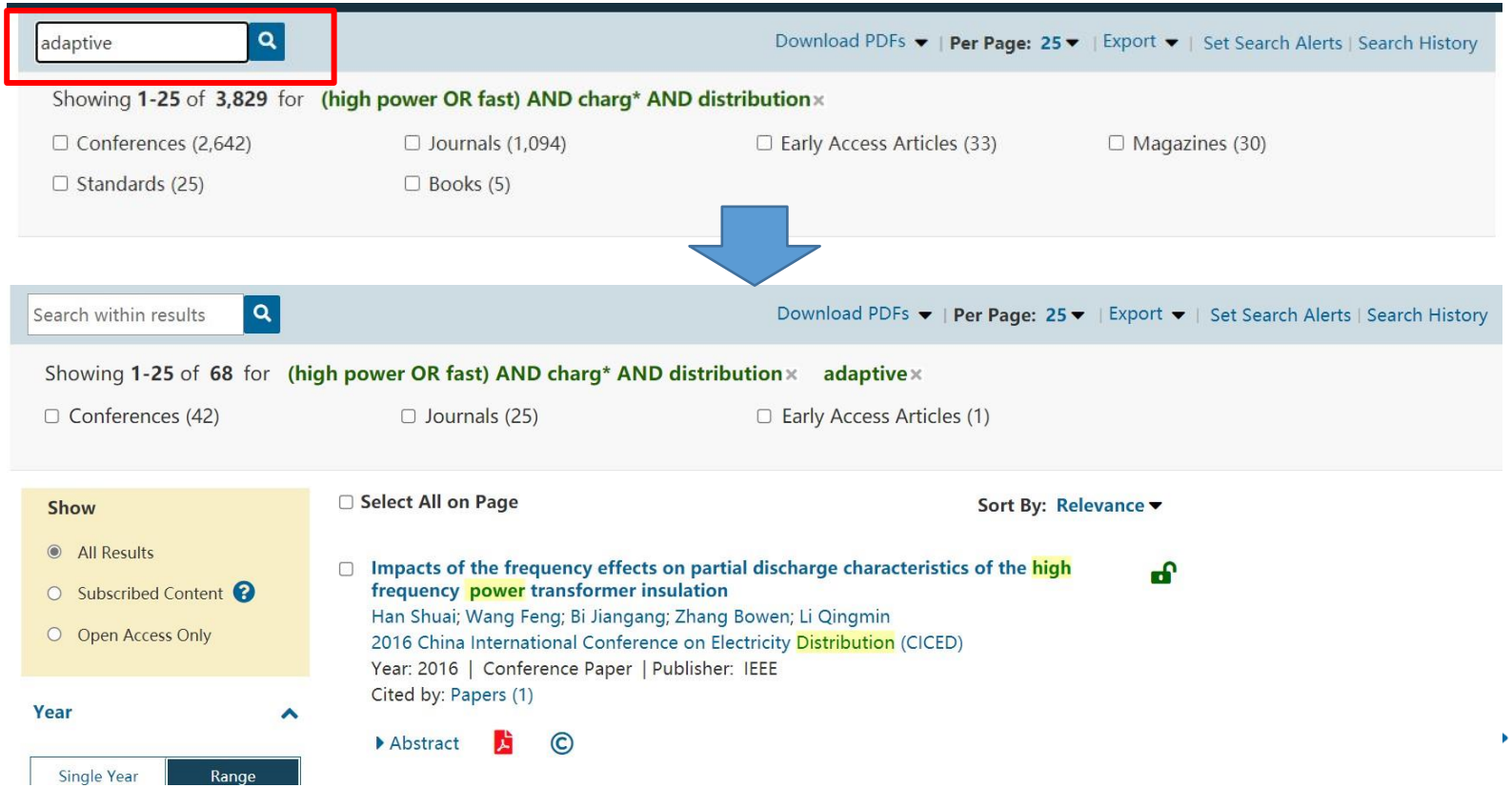


Figure 5.

Characteristics of the three kinds of regions at different magnifications.

檢索結果頁面：進行限縮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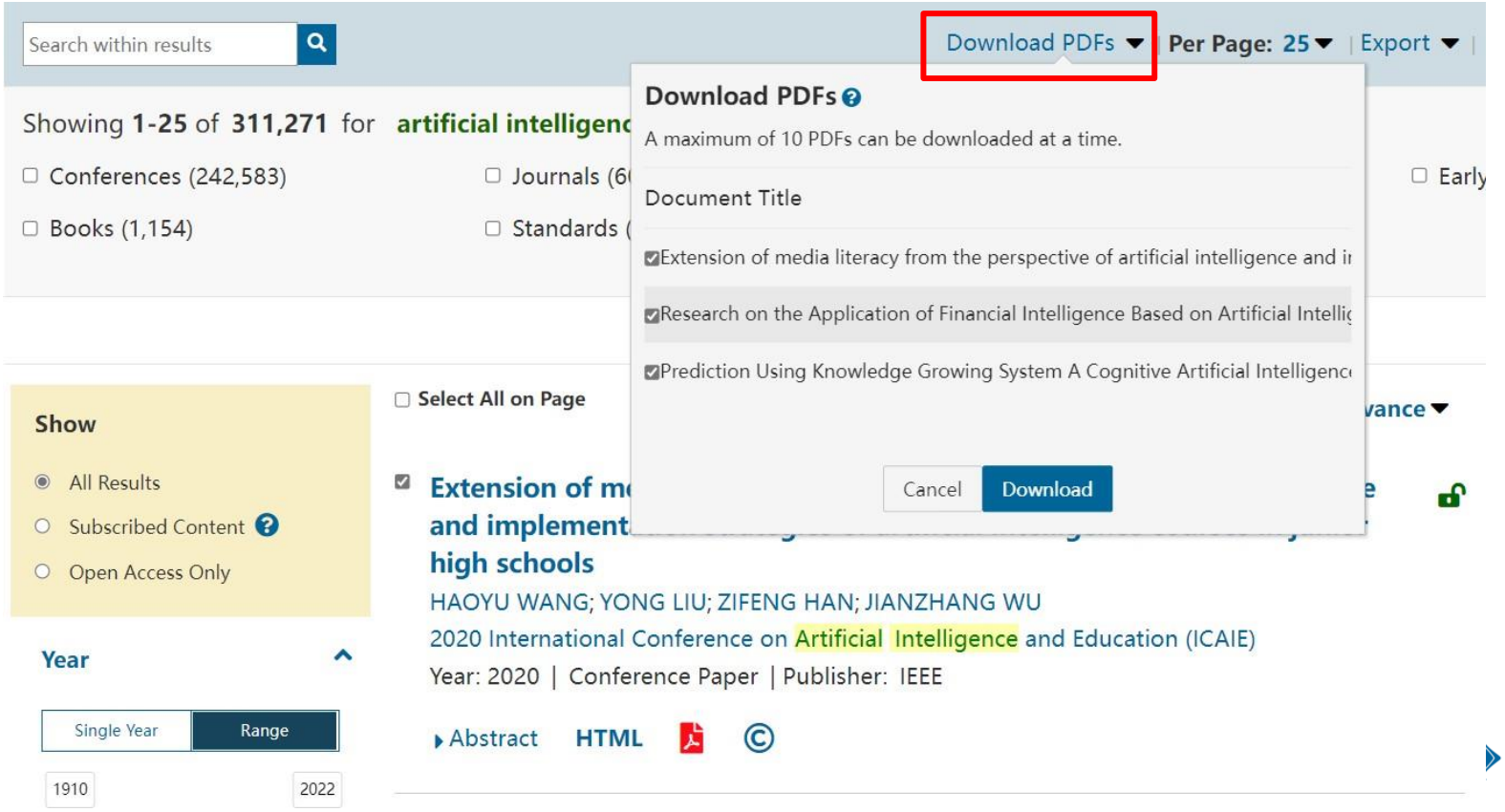

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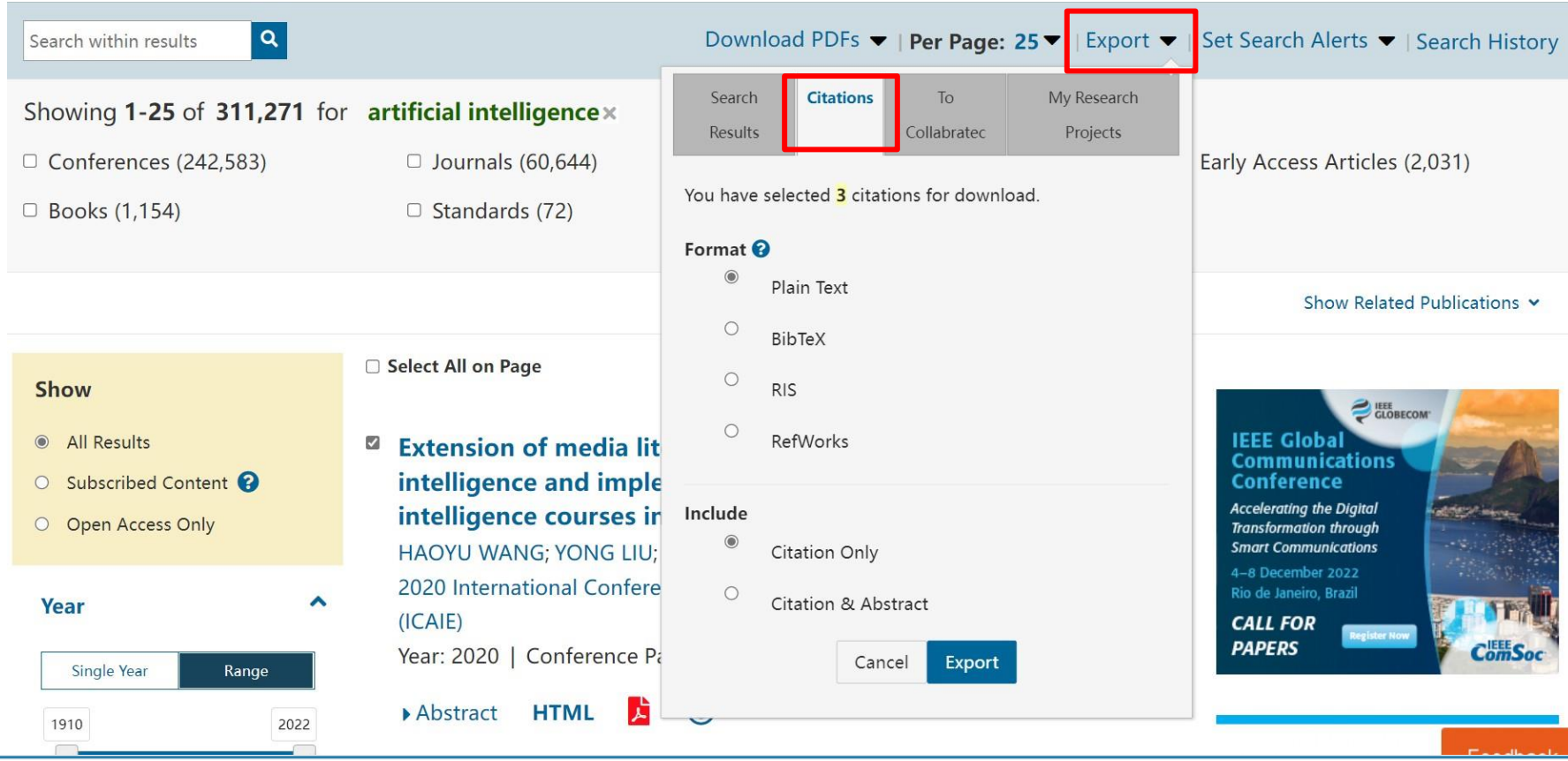

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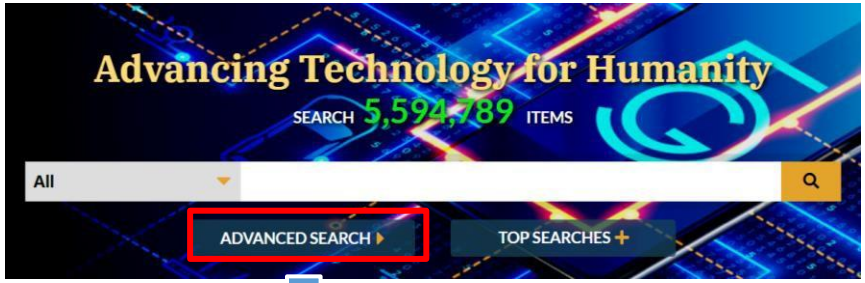

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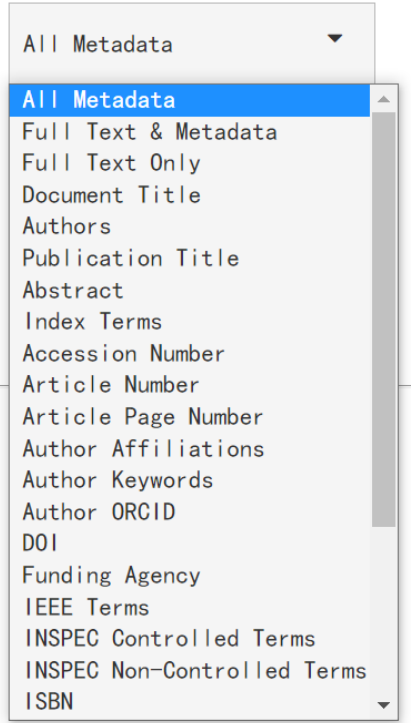

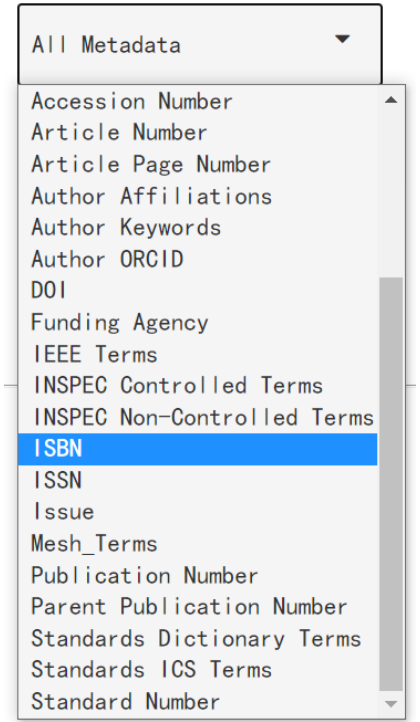

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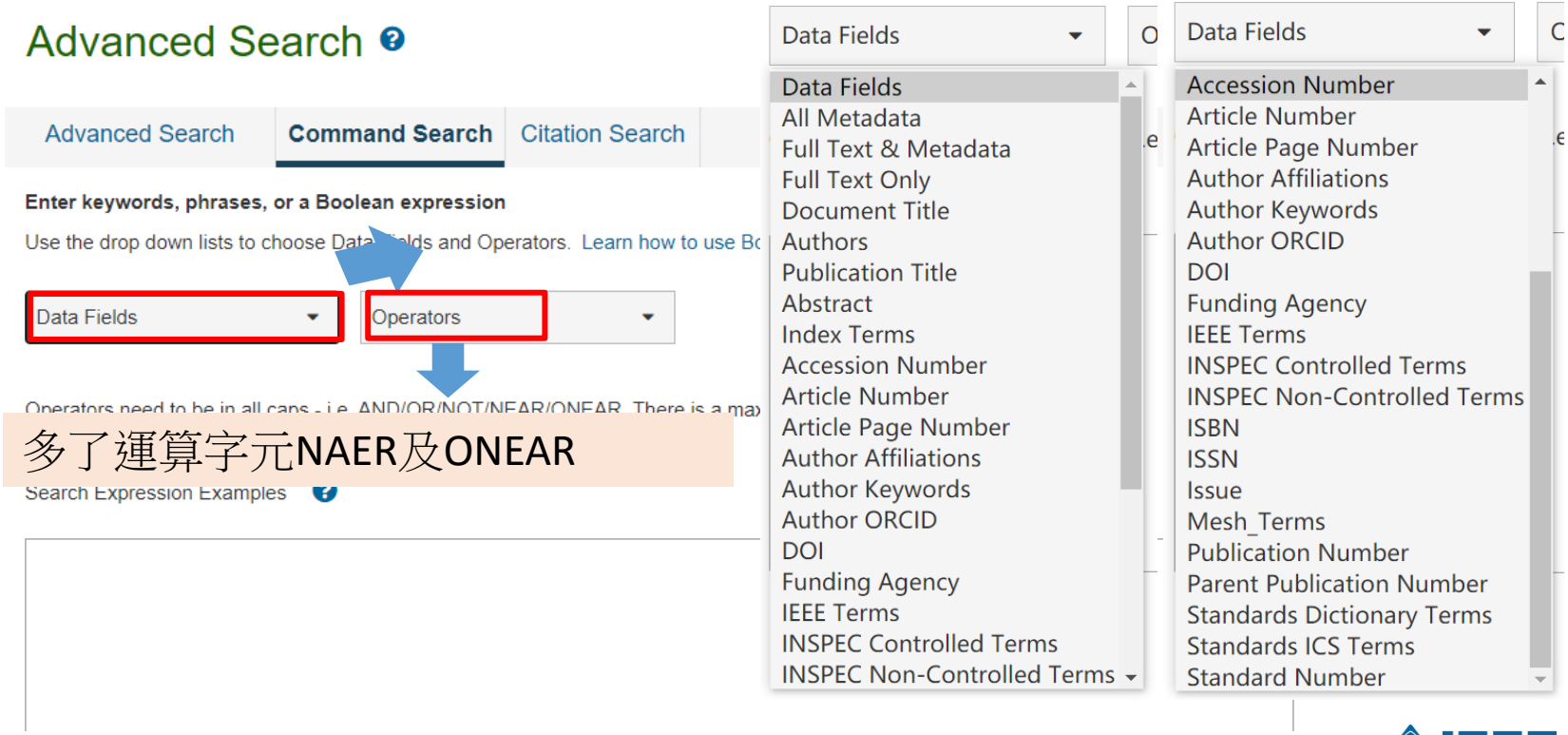

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檢索運算規則

檢索從式1

檢索從式2

"Abstract":ofdm AND "Publication Title":communications

檢索式

檢索運算規則

- 每個檢索從式可包含檢索詞數量：20
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檢索運算規則

- 可運用運算字元: AND、OR、NOT、NEAR和ONEAR
  - Fast ONEAR/2 Statistic

- 支援括號使用，可使用截詞符號（ * 或? ）和限定符號（ " " ）
  - (A OR B) NEAR/5 (C OR D)
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檢索運算規則

- 檢索運算優先順序如下

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3. NOT
4. AND
5. OR

(1) (2) (4)

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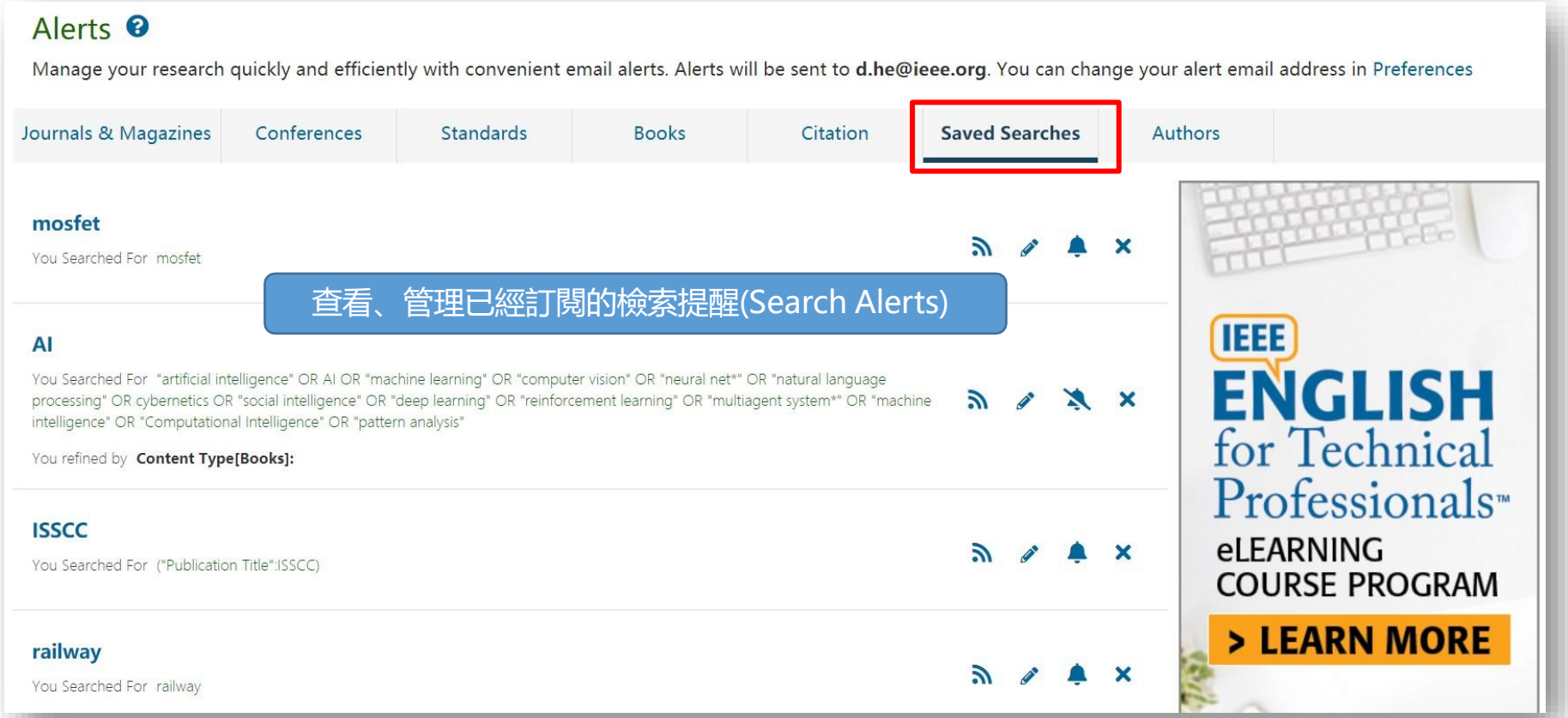

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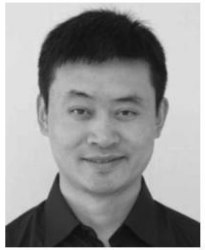

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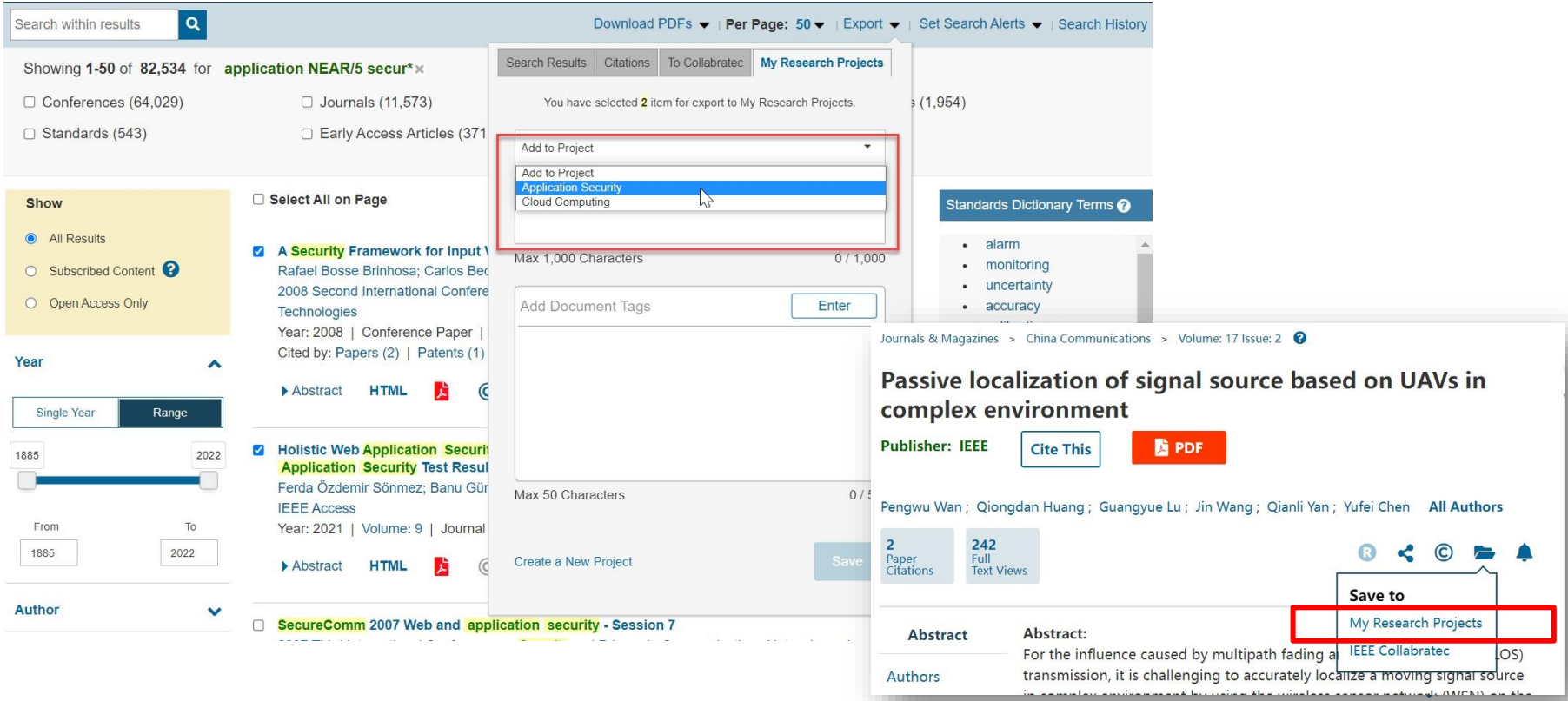
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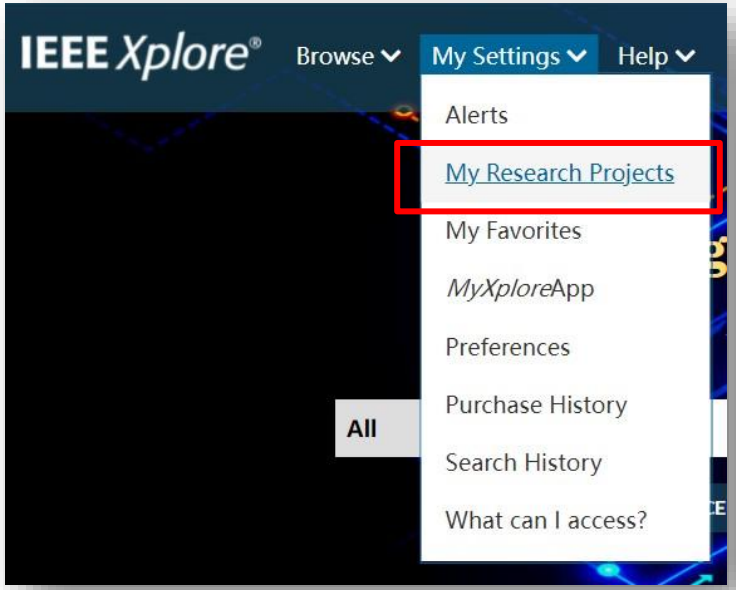
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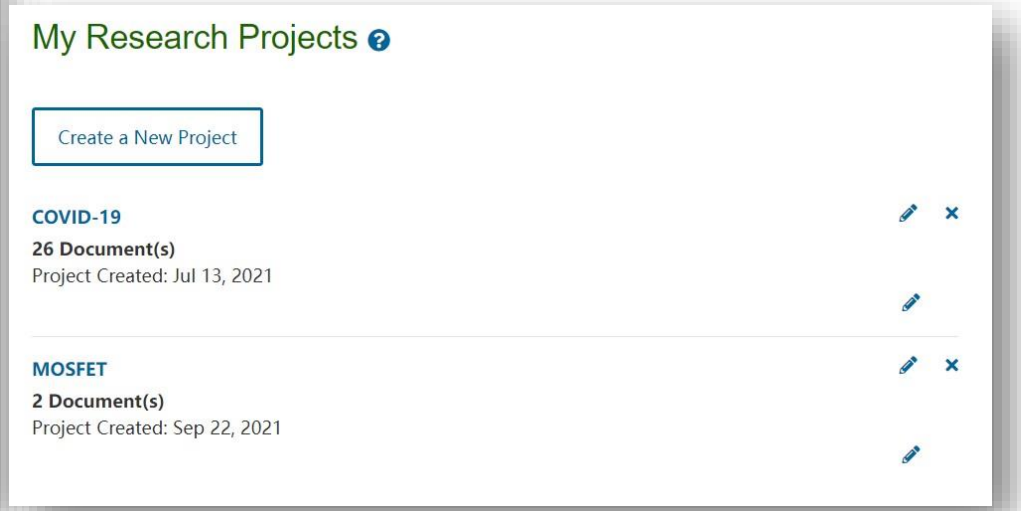
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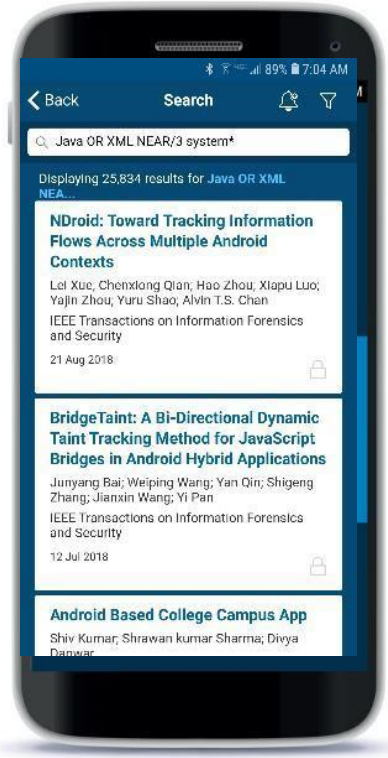

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