Publication Indicators

Proadpran Punyabukkana | Chula Computer Engineering

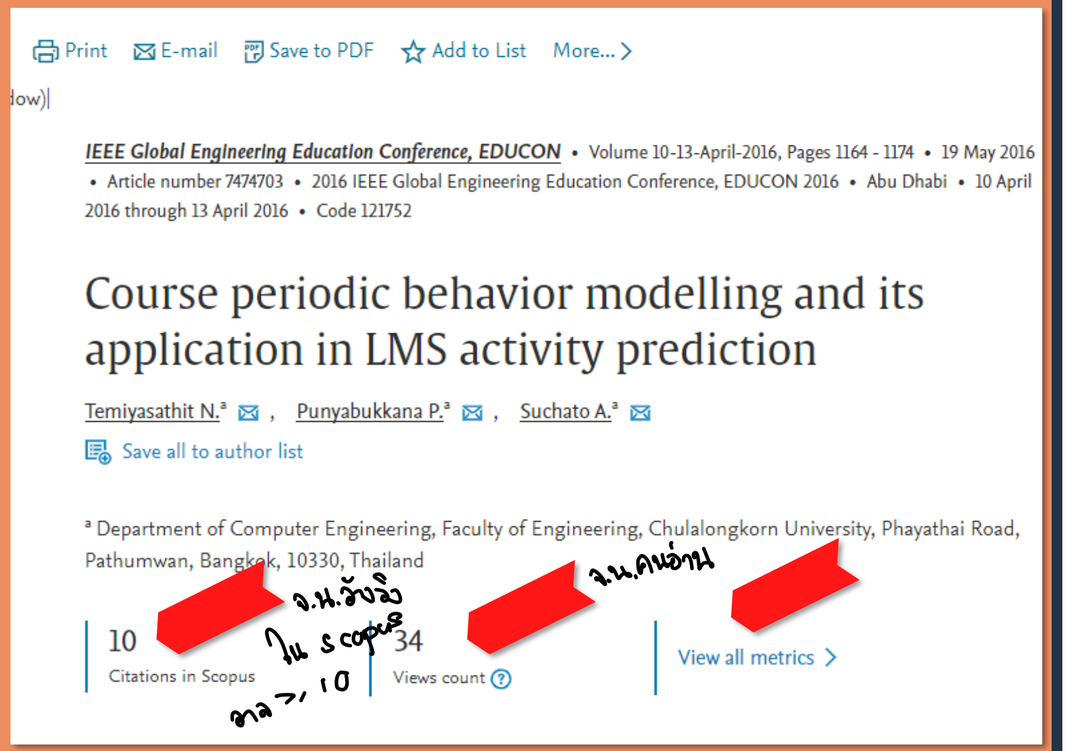
2110607 Research Methods for Computer Science

Publication Metrics

- Journal
- Article
- Author
- Conferences

ELSEVIER เอลซีเวียร์

CiteScore, SNIP, Field-Weighted citation impact



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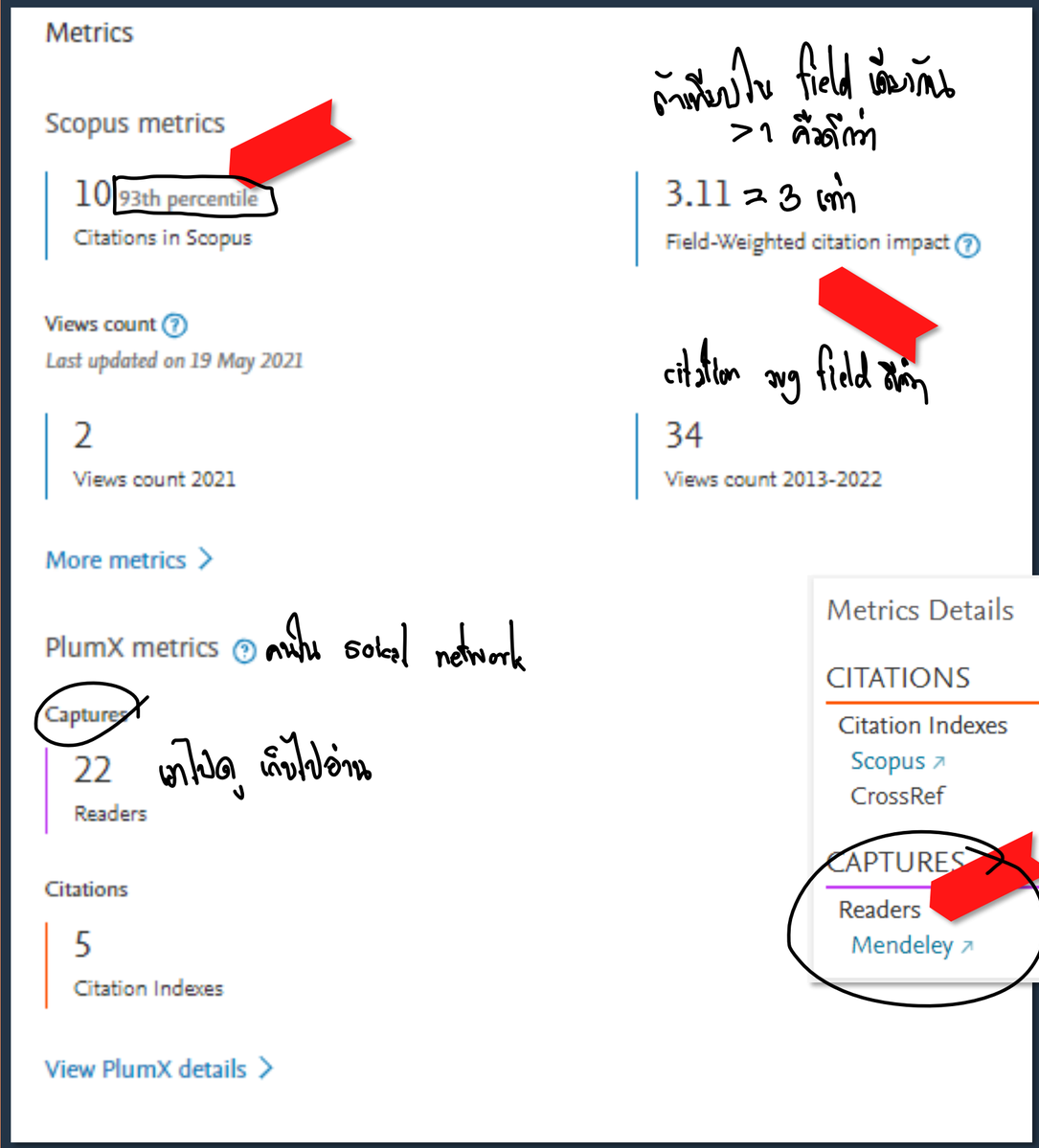

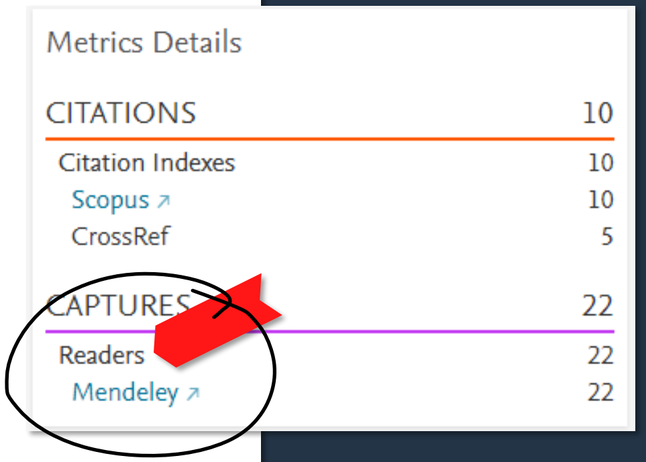

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Real Estate Recommendation Approach for Solving the Item Cold-Start Problem

Polohakul J.[a], Chuangsuwanich E.[a], Suchato A.[a], Punyabukkana P.[a]

Save all to author list

[a] Department of Computer Engineering, Chulalongkorn University, Bangkok, Thailand

Document type
Article • *Gold Open Access*

Source type
Journal

ISSN
21693536

DOI
10.1109/ACCESS.2021.3077564

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Abstract

The item cold-start problem occurs when a recommendation system cannot recommend new items owing to record deficiencies and new listing omissions. When searching for real estate, users can register a concurrent interest in recent and prior projects. Thus, an approach to

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Sun, S. , Tang, Y. , Dai, Z. *(2019) IEEE Access*

Real-time session-based recommendations using LSTM with neural embeddings

Lenz, D. , Schulze, C. , Guckert, M. *(2018) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*

Journal

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Engineering and Applied Science Research, 2021

A Real Estate Valuation Model Using Boosted Feature Selection
IEEE Access, 2021

Real Estate Recommendation Approach for Solving the Item Cold-Start Problem
IEEE Access, 2021

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67	6	172
Documents	*h*-index	Citations by ***147*** **documents**

Corresponding Author

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Scopus coverage years: from 2013 to 2021
Publisher: IEEE
ISSN: 2169-3536
Subject area: Engineering: General Engineering | Computer Science: General Computer Science | Materials Science: General Materials Science
Source type: Journal

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CiteScore 2020
4.8

SJR 2020
0.587

SNIP 2020
1.421

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CiteScore 2020
4.8 = 201,619 Citations 2017 - 2020 / 41,670 Documents 2017 - 2020
Calculated on 05 May, 2021

CiteScoreTracker 2021
6.2 = 311,594 Citations to date / 50,531 Documents to date
Last updated on 05 January, 2022 • Updated monthly

CiteScore rank 2020

Category	Rank	Percentile
Engineering — General Engineering	#39/297	87th
Computer Science — General Computer Science	#43/226	81st
Materials Science — General Materials Science	#135/455	70th

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Conference

= Conference

Proceedings of the IEEE International Conference on Computer Vision

Scopus coverage years: 1995, from 1998 to 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, from 2015 to 2017, 2019

Subject area: Computer Science: Software | Computer Science: Computer Vision and Pattern Recognition

Source type: Conference Proceeding

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CiteScore 2020
37.2

SJR 2020
4.133

SNIP 2020
8.648

ตัวไปสิคัว่า Conf / Proceeding ออกเป็น Journal

CiteScore | CiteScore rank & trend | Scopus content coverage

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$$37.2 = \frac{63{,}026 \text{ Citations } 2017 - 2020}{1{,}696 \text{ Documents } 2017 - 2020}$$

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CiteScore rank 2020

Category	Rank	Percentile	
Computer Science: Software	#3/389	99th	Tier 1
Computer Science: Computer Vision and Pattern Recognition	#2/85	98th	Tier 1

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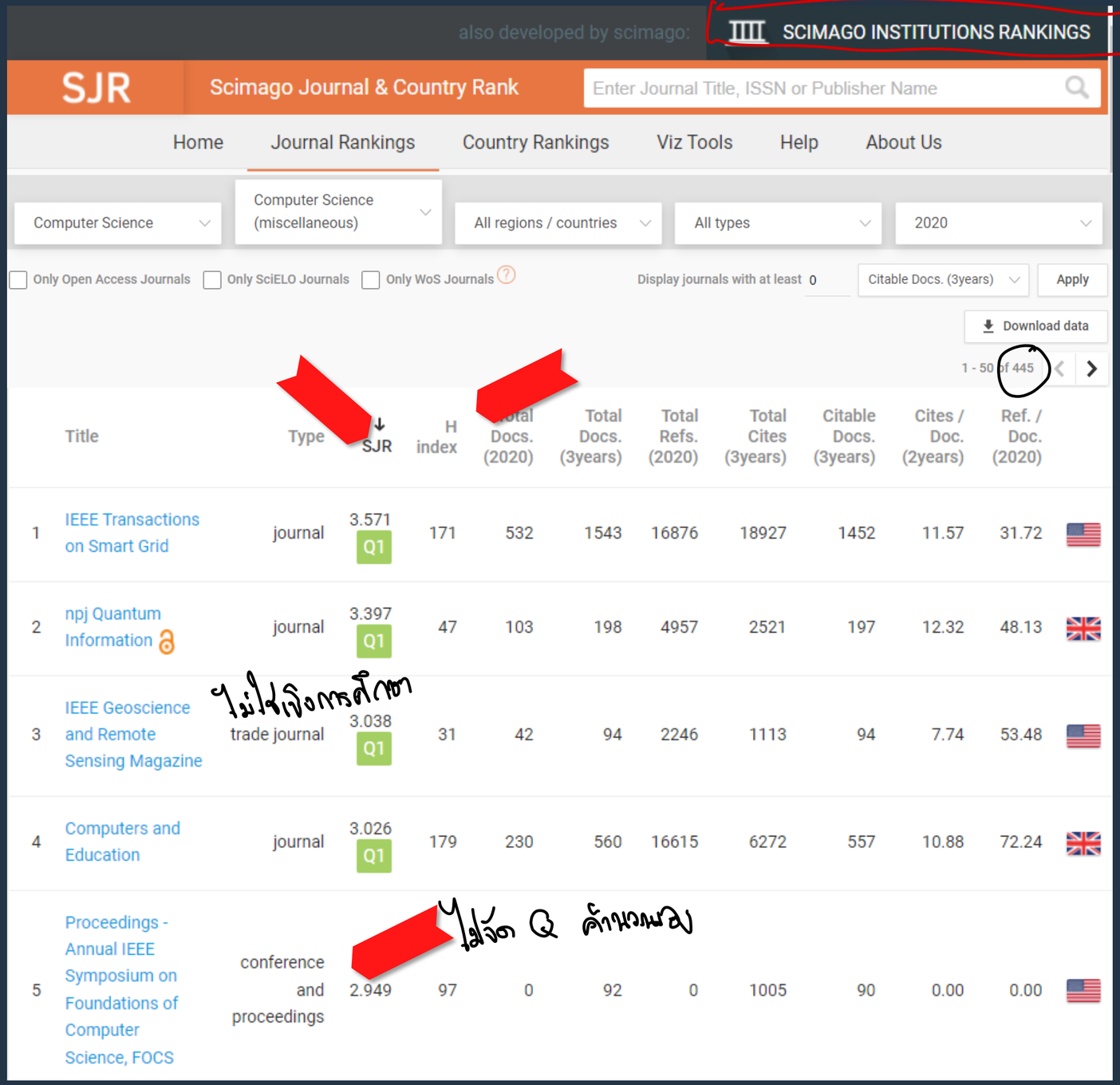
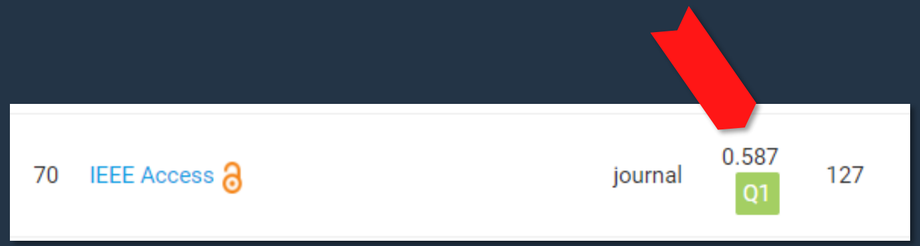
SCImago





Ranking journals/conferences in your areas of interest.

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Journal Citation Report (JCR): Impact factor, Eigenfactor, Article Influence Score

Journal Citation Report

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JCR YEAR

2020

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ISSN
2169-3536

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JCR ABBREVIATION
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Journal's performance

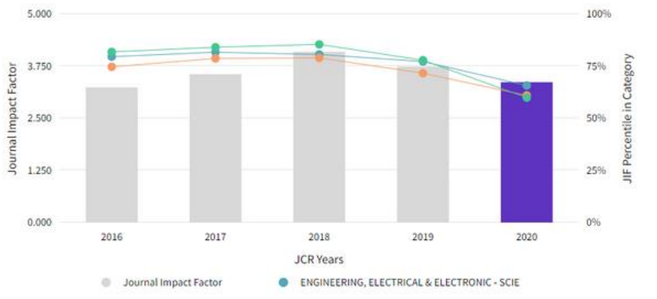
Journal Impact Factor

The Journal Impact Factor (JIF) is a journal-level metric calculated from data indexed in the Web of Science Core Collection. It volume of publication and citations characteristics of the subject area and type of journal. The Journal Impact Factor can com is inappropriate to use a journal-level metric as a proxy measure for individual researchers, institutions, or articles. Learn more

2020 JOURNAL IMPACT FACTOR
3.367
View calculation

JOURNAL IMPACT FACTOR WITHOUT SELF CITATIONS
2.454
View calculation

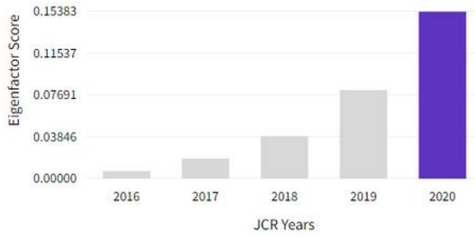
Journal Impact Factor Trend 2020 Export



Eigenfactor Score

0.15383

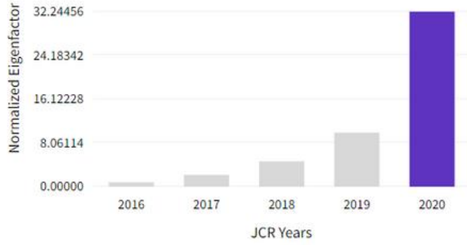
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than less cited sources. The Eigenfactor calculation does not include journal self-citations. Learn more



Normalized Eigenfactor

32.24456

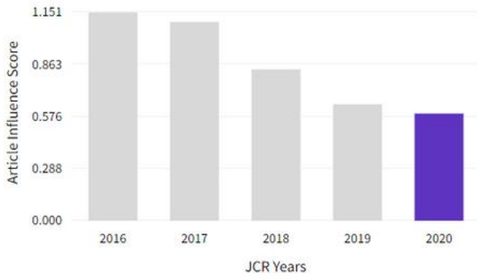
The Normalized Eigenfactor Score is the Eigenfactor score normalized, by rescaling the total number of journals in the JCR each year, so that the average journal has a score of 1. Journals can then be compared and influence measured by their score relative to 1. Learn more



Article influence score

0.592

The Article Influence Score normalizes the Eigenfactor Score according to the cumulative size of the cited journal across the prior five years. The mean Article Influence Score for each article is 1.00. A score greater than 1.00 indicates that each article in the journal has above-average influence.
Learn more



5 Year Impact Factor

3.671

View Calculation

The 5-year Impact Factor is the average number of times articles from the journal published in the past five years have been cited in the JCR year. It is calculated by dividing the number of citations in the JCR year by the total

Immediacy Index

0.651

View Calculation

The Immediacy Index is the count of citations in the current year to the journal that reference content in this same year. Journals that have a consistently high Immediacy Index attract citations rapidly. Learn more

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Real Estate Recommendation Approach for Solving the Item Cold-Start Problem

By: Polohakul, J (Polohakul, Jirut) [1]; Chuangsuwanich, E (Chuangsuwanich, Ekapol) [1]; Suchato, A (Suchato, Atiwong) [1]; Punyabukkana, P (Punyabukkana, Proadpran) [1]
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IEEE ACCESS
Volume: 9 **Page:** 68139-68150
DOI: 10.1109/ACCESS.2021.3077564
Published: 2021
Indexed: 2021-05-19
Document Type: Article

Abstract
The item cold-start problem occurs when a recommendation system cannot recommend new items owing to record deficiencies and new listing omissions. When searching for real estate, users can register a concurrent interest in recent and prior projects. Thus, an approach to recommend cold-start and warm-start items simultaneously must be determined. Furthermore, unrequired membership and stop-by behavior cause real estate recommendations to have many cold-start and new users. This characteristic encourages the use of a content-based approach and a session-based recommendation system. Herein, we propose a real estate recommendation approach for solving the item cold-start problem with acceptable warm-start item recommendations in the many-cold-start-users scenario. We modify a session-based recommendation system and employ existing mechanisms to efficiently deal with sequential and context information for the next-interacted item's encoded attribute prediction. Subsequently, we use the nearest-neighbors approach using weighted cosine similarity to determine conforming candidates. We use Recall@K and MRR@K with the top-n recommendation to evaluate warm-start and cold-start item recommendations among different applied mechanisms and against the baselines. The results demonstrate the effectiveness of efficiently integrating the information and the difficulty in performing well in warm-start and cold-start item recommendations simultaneously. Our proposed approach illustrates the capability of solving the item cold-start problem while yielding promising results in both recommendations although neither result is the best. We believe that our approach provides a suitable compromise between both recommendations and that it will benefit recommendation tasks focusing on both recommendations.

Keywords
Author Keywords: Task analysis; Deep learning; Recurrent neural networks; Urban areas; Registers; Licenses; History; Context awareness; machine learning; recommender systems; recurrent neural networks

Author Information
Corresponding Address: Punyabukkana, Proadpran (corresponding author)
Chulalongkorn Univ, Dept Comp Engn, Bangkok 10330, Thailand

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2020	Five Year
3.367	3.671

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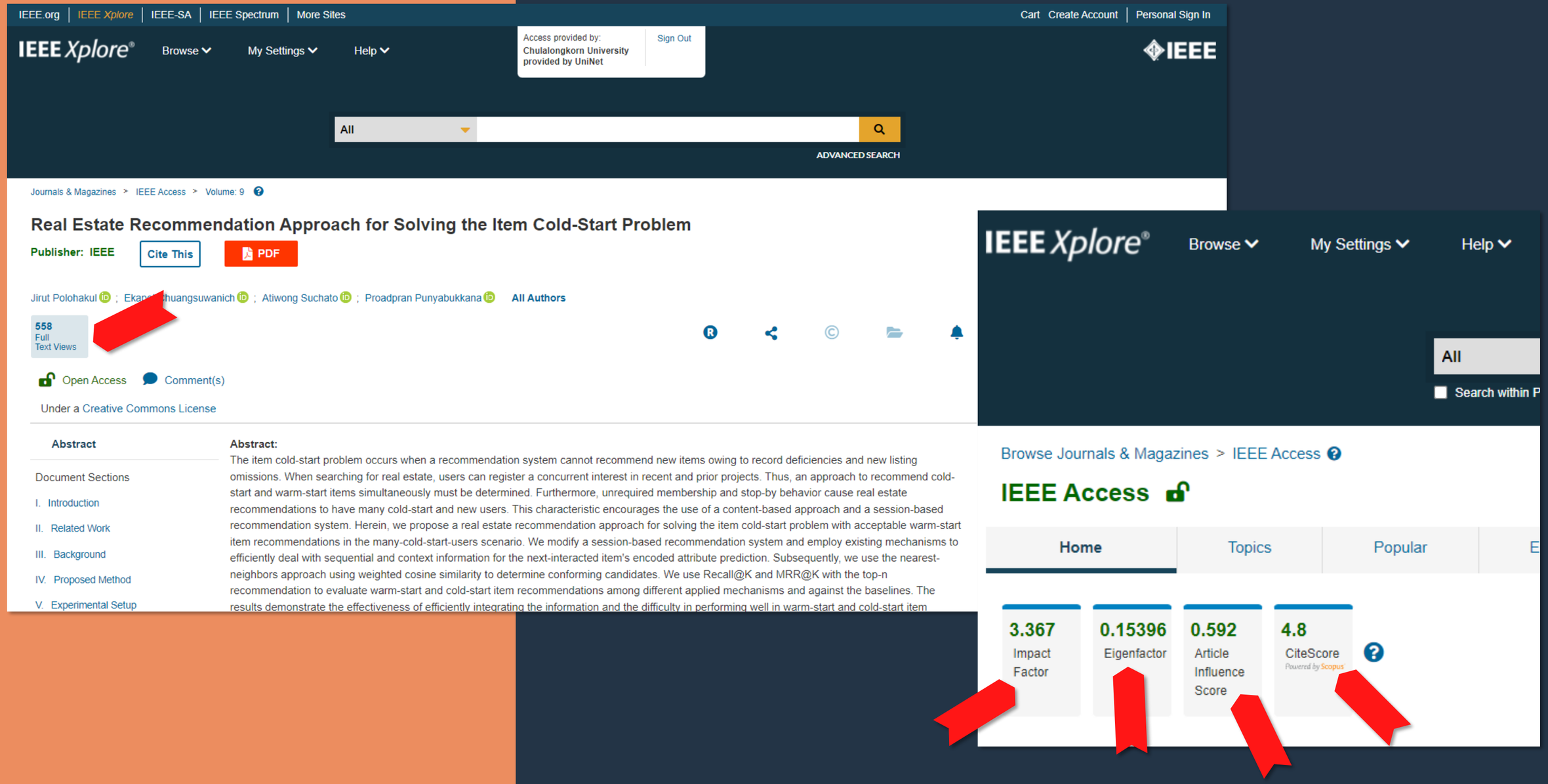
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Abstract
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II. Related Work
III. Background
IV. Proposed Method
V. Experimental Setup
Abstract:
The item cold-start problem occurs when a recommendation system cannot recommend new items owing to record deficiencies and new listing omissions. When searching for real estate, users can register a concurrent interest in recent and prior projects. Thus, an approach to recommend cold-start and warm-start items simultaneously must be determined. Furthermore, unrequired membership and stop-by behavior cause real estate recommendations to have many cold-start and new users. This characteristic encourages the use of a content-based approach and a session-based recommendation system. Herein, we propose a real estate recommendation approach for solving the item cold-start problem with acceptable warm-start item recommendations in the many-cold-start-users scenario. We modify a session-based recommendation system and employ existing mechanisms to efficiently deal with sequential and context information for the next-interacted item's encoded attribute prediction. Subsequently, we use the nearest-neighbors approach using weighted cosine similarity to determine conforming candidates. We use Recall@K and MRR@K with the top-n recommendation to evaluate warm-start and cold-start item recommendations among different applied mechanisms and against the baselines. The results demonstrate the effectiveness of efficiently integrating the information and the difficulty in performing well in warm-start and cold-start item
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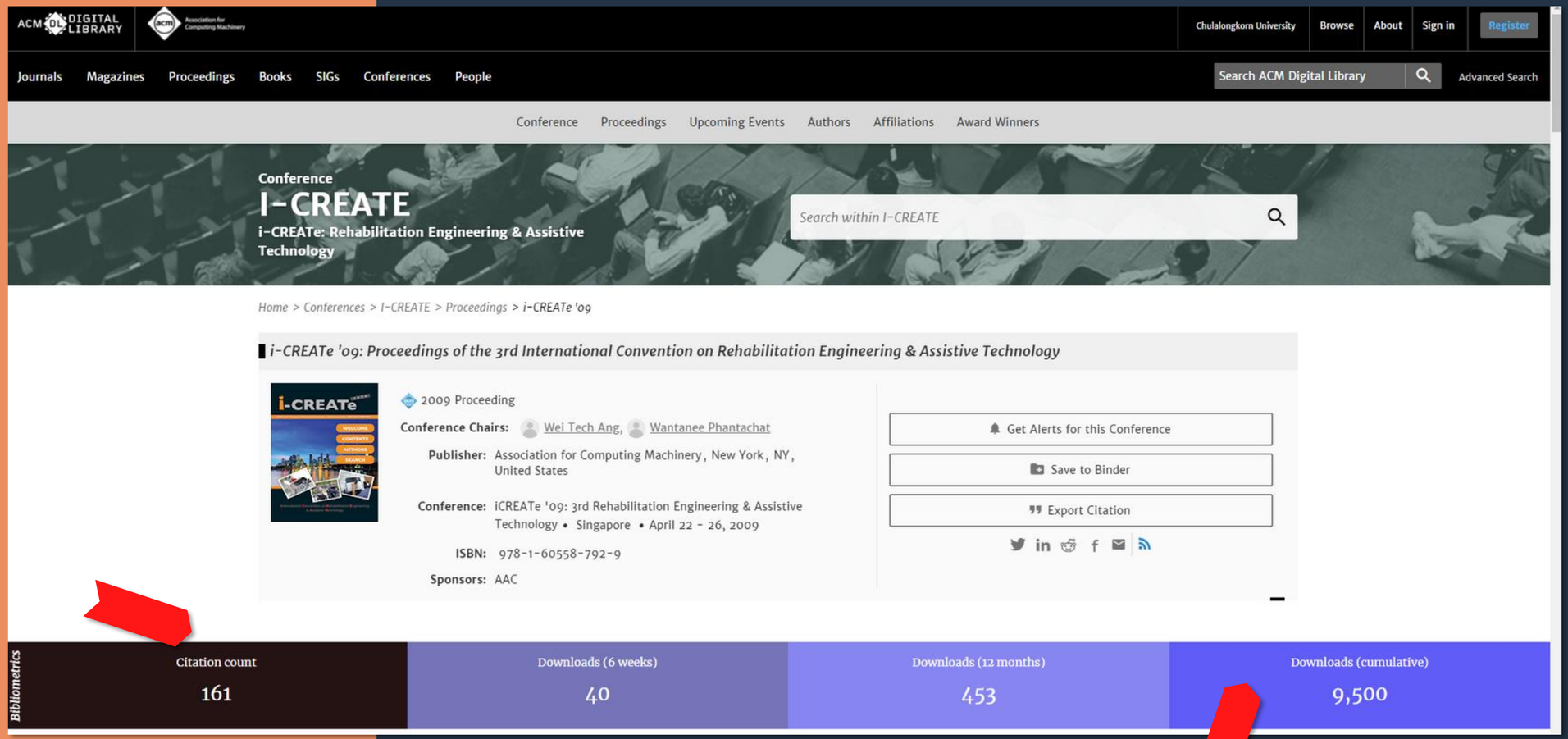
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CONFERENCES

CORE, H-index, H5-index, Google Scholar Metrics, Acceptance rate, Conference Proceedings Citation Index

Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition

ข้อเสียของ Journal ใหม่ๆ คือจะต่ำ

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	H-INDEX
United States Universities and research institutions in United States	Computer Science Computer Vision and Pattern Recognition Software	IEEE Computer Society Institute of Electrical and Electronics Engineers, USA in Scimago Institutions Rankings	406

PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Conferences and Proceedings	10636919	1992, 1994, 1996-2001, 2003-2004, 2006-2007, 2010-2019	Homepage

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You can also explore publications in research areas of your interest. To browse publications in a broad area of research, select one of the areas in the left column. For example: Engineering & Computer Science or Health & Medical Sciences.

To explore specific research areas, select one of the broad areas, click on the "Subcategories" link and then select one of the options. For example: Databases & Information Systems or Development Economics.

Browsing by research area is, as yet, available only for English publications. You can, of course, search for specific publications in all languages by words in their titles.

Scholar Metrics are currently based on our index as it was in **July 2021**.

Google Scholar

Top publications

h5 = 5 ปีย้อนหลัง

Categories > **Engineering & Computer Science** > Subcategories

	Publication	h5-index	h5-median
1.	IEEE/CVF Conference on Computer Vision and Pattern Recognition	356	583
2.	Advanced Materials	294	406
3.	International Conference on Learning Representations	253	470
4.	Neural Information Processing Systems	245	422
5.	Renewable and Sustainable Energy Reviews	225	294
6.	Advanced Energy Materials	206	267
7.	International Conference on Machine Learning	204	370
8.	Energy & Environmental Science	202	306
9.	ACS Nano	202	265
10.	European Conference on Computer Vision	197	342
11.	Advanced Functional Materials	189	250
12.	IEEE/CVF International Conference on Computer Vision	184	311
13.	Journal of Cleaner Production	182	245
14.	Nature Materials	181	313
15.	Applied Catalysis B: Environmental	175	218
16.	Nano Letters	173	234
17.	Nature Energy	171	306
18.	ACS Applied Materials & Interfaces	169	202
19.	Journal of Materials Chemistry A	166	205
20.	IEEE Access	164	233

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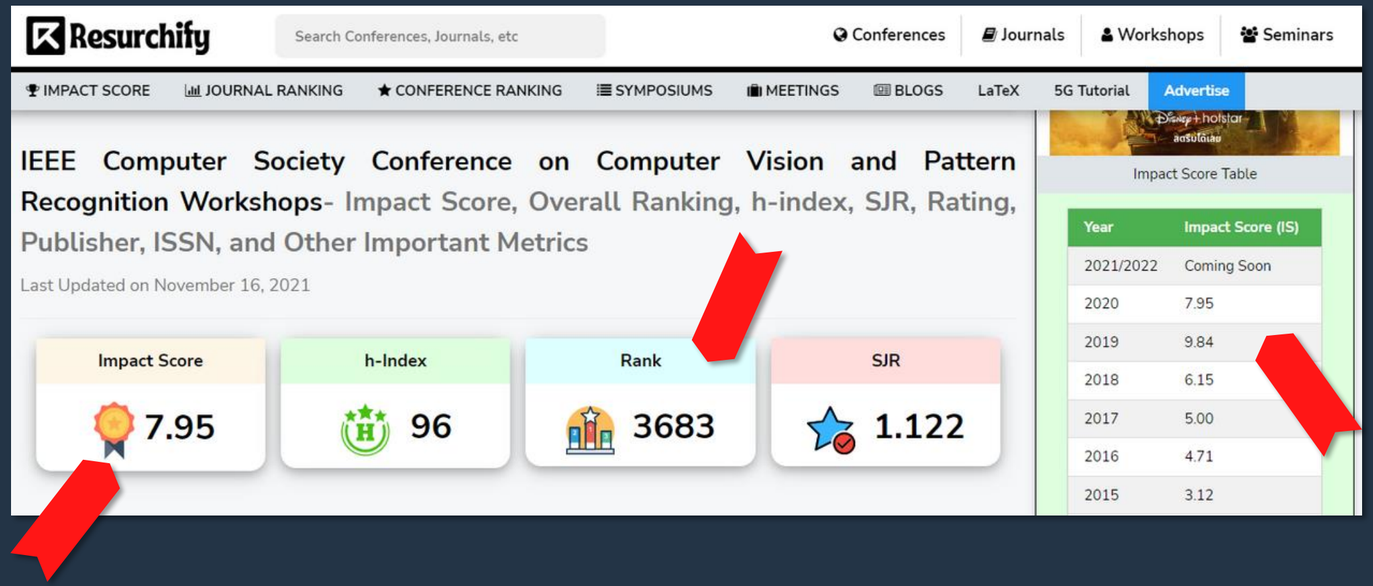
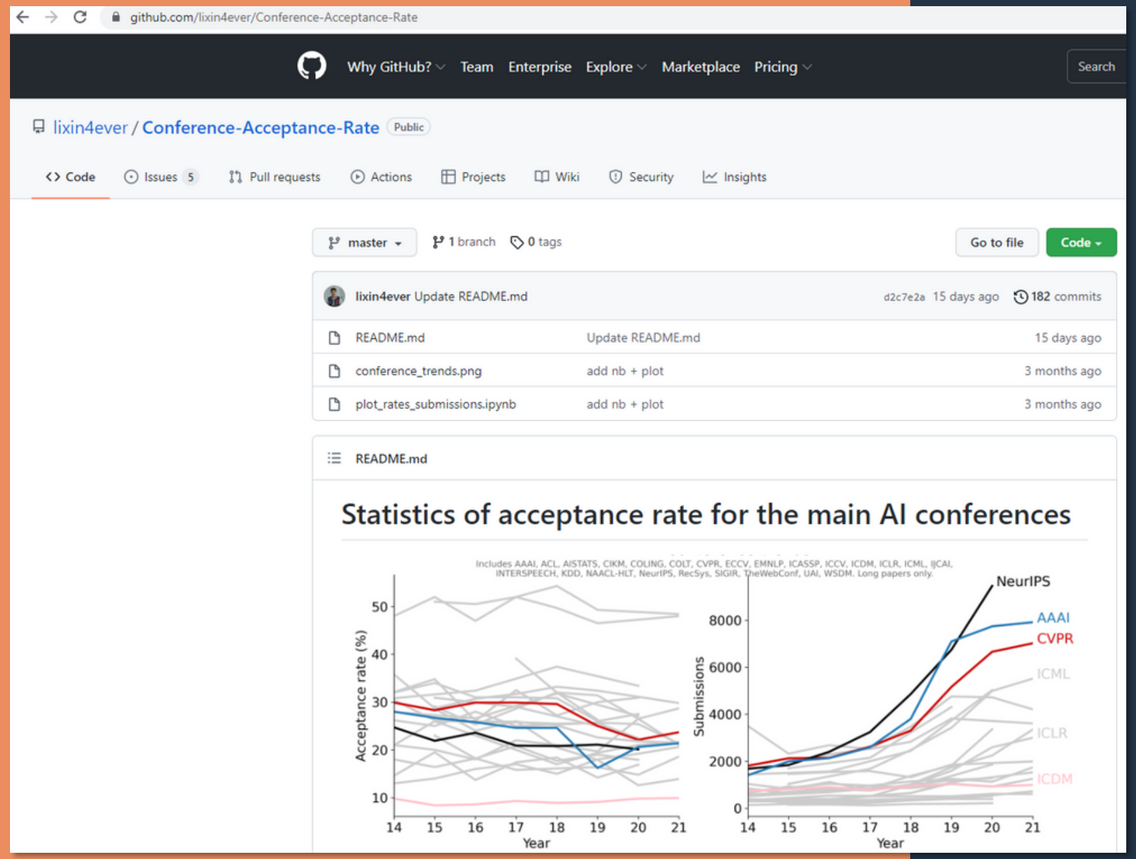
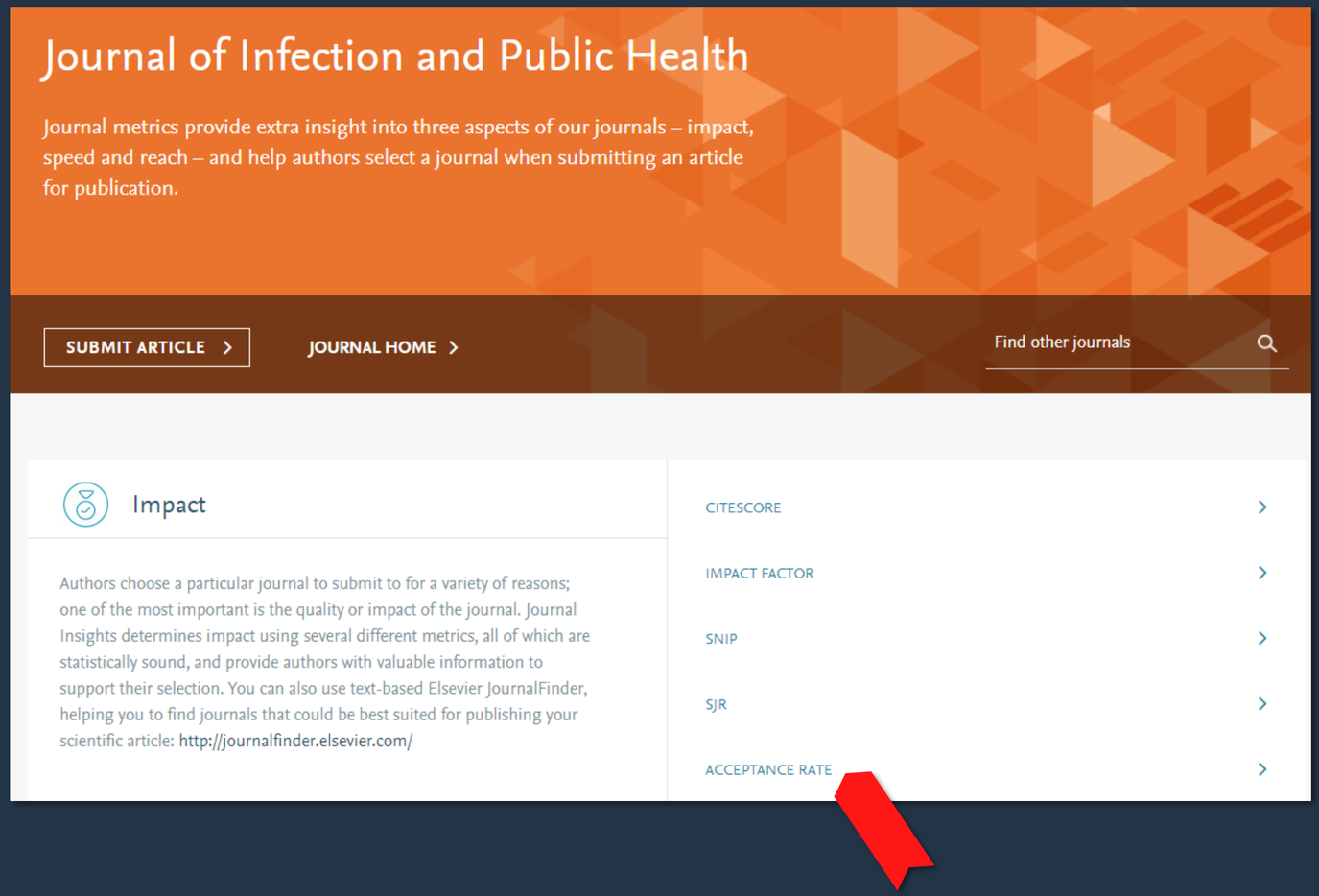
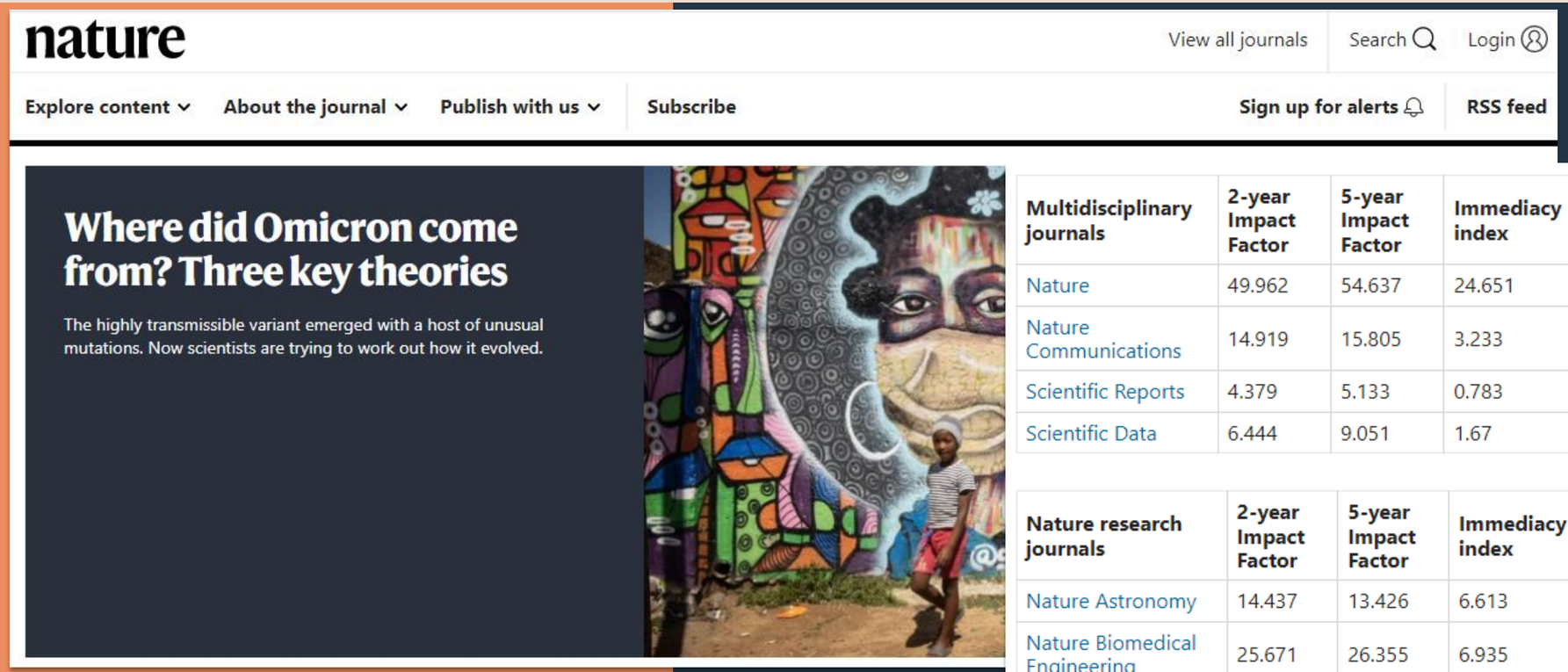






Acceptance rate

Top Journal



nature

Multidisciplinary journals	2-year Impact Factor	5-year Impact Factor	Immediacy index	Eigenfactor® score	Article Influence Score	2-year Median
Nature	49.962	54.637	24.651	1.089	23.887	30
Nature Communications	14.919	15.805	3.233	1.239	5.567	10
Scientific Reports	4.379	5.133	0.783	1.2325	1.285	3
Scientific Data	6.444	9.051	1.67	0.03447	3.247	3

Nature research journals	2-year Impact Factor	5-year Impact Factor	Immediacy index	Eigenfactor® score	Article Influence Score	2-year Median
Nature Astronomy	14.437	13.426	6.613	0.020	5.759	9
Nature Biomedical Engineering	25.671	26.355	6.935	0.020	8.991	15
Nature Biotechnology	54.908	50.516	14.739	0.146	25.083	26
Nature Catalysis	41.813	41.822	6.973	0.030	13.566	21
Nature Cell Biology	28.824	26.648	5.797	0.071	11.061	17
Nature Chemical Biology	15.040	15.668	4.539	0.048	6.301	10
Nature Chemistry	24.427	26.958	6.858	0.069	9.536	16
Nature Climate Change	25.290	28.803	6.806	0.080	10.746	15
Nature Ecology & Evolution	15.460	15.974	4.823	0.042	6.610	10
Nature Electronics	33.686	33.695	5.643	0.014	11.918	19
Nature Energy	60.858	68.822	10.377	0.080	19.786	36

Publication Metrics

- Journal Level
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      - Impact factor
      - Eigenfactor
      - Article Influence Score
- Article Level
  - Citation
  - Elsevier's PlumX metrics
- Author Level
  - Citation
  - H-index
- Conferences
  - Acceptance rate
  - H5-index
  - Computing Research and Education (CORE)
- More sources
  - Google Scholar Metrics
  - Web of Science Conference Proceedings Citation Index
  - Resurchify