Q Search Lists Sources SciVal ↗

Create account

Sign in

1 of 1

Scopus

🛃 Download 🛱 Print 🖾 E-mail 📆 Save to PDF 🥁 Add to List More... >

Future Internet • Open Access • Volume 14, Issue 8 • August 2022 • Article number 229

Document type Article • Gold Open Access Source type Journal ISSN 19995903 DOI 10.3390/fi14080229 View more V

CCrFS: Combine Correlation Features Selection for Detecting Phishing Websites Using Machine Learning

Moedjahedy, Jimmy^a ⊠ ; Setyanto, Arief^b ⊠ ; Alarfaj, Fawaz Khaled^c ⊠ ; Alreshoodi, Mohammed^d ⊠

Save all to author list

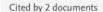
^a Computer Science Department, Universitas Klabat, Minahasa Utara, 95371, Indonesia

^c Department of Computer and Information Sciences, Imam Mohammad Ibn Saud Islamic University, Riyadh, 11564, Saudi Arabia

^d Unit of Scientific Research, Applied College, Qassim University, Buraydah, 52362, Saudi Arabia

^b Magister of Informatics Engineering, Universitas AMIKOM Yogyakarta, Yogyakarta, 55281, Indonesia





俞

Toward Efficient Intrusion Detection System Using Hybrid Deep Learning Approach Aldallal, A.

(2022) Symmetry

?

A Novel Logo Identification Technique for Logo-Based Phishing Detection in Cyber-Physical Systems

Panda, P. , Mishra, A.K. , Puthal, D. (2022) Future Internet

View all 2 citing documents

Inform me when this document is cited in Scopus:

Set citation alert >

Related documents

PhishStack: Evaluation of Stacked Generalization in Phishing URLs Detection

Motiur Rahman, S.S.M. , Islam, T. , Jabiullah, M.I. (2020) Procedia Computer Science

Performance Assessment of Multiple Machine Learning Classifiers for Detecting the Phishing URLs

Rahman, S.S.M.M. , Rafiq, F.B. , Toma, T.R. (2020) Advances in Intelligent Systems and Computing

Classification of URLs Using N-gram Machine Learning Approach

Elkouay, A., Moussa, N., Madani, A. (2022) Lecture Notes in Networks and Systems

View all related documents based on references

Find more related documents in Scopus based on:

Authors > Keywords >

Author keywords Indexed keywords SciVal Topics Metrics Funding details

Abstract

Abstract

phishing is to obtain sensitive information by deceiving a target and using the information for financial gain. The information may include a login detail, password, date of birth, credit card number, bank account number, and family-related information. To acquire these details, users will be directed to fill out the information on false websites based on information from emails, adverts, text messages, or website pop-ups. Examining the website's URL address is one method for avoiding this type of deception. Identifying the features of a phishing website URL takes specialized knowledge and investigation. Machine learning is one method that uses existing data to teach machines to distinguish between legal and phishing website URLs. In this work, we proposed a method that combines correlation and recursive feature elimination to determine which URL characteristics are useful for identifying phishing websites by gradually decreasing the number of features while maintaining accuracy value. In this paper, we use two datasets that contain 48 and 87 features. The first scenario combines power predictive score correlation and recursive feature elimination; the second scenario is the maximal information coefficient correlation and recursive feature elimination. The third scenario combines spearman correlation and recursive feature elimination. All three scenarios from the combined findings of the proposed methodologies achieve a high level of accuracy even with the smallest feature subset. For dataset 1, the accuracy value for the 10 features result is 97.06%, and for dataset 2 the accuracy value is 95.88% for 10 features. © 2022 by the authors.

Internet users are continually exposed to phishing as cybercrime in the 21st century. The objective of

Author keywords

correlation; feature elimination; feature selection; machine learning; phishing detection

Indexed keywords

V



12/20/22,	9·13 AM	
12/20/22	3.13 AM	

Future Internet

SCIMAGO INSTITUTIONS RANKINGS also developed by scimago: Ш SJR Scimago Journal & Country Rank Enter Journal Title, ISSN or Publisher Name Home Journal Rankings **Country Rankings** Viz Tools Help About Us () X Scientific Programming Paper Our Service Includes Free Proofreading & Language Edi Submit Your Paper With Hindawi Hindawi

Future Internet 8

COUNTRY	SUBJECT AREA AND CATEGORY	PUBLISHER	H-INDEX
Switzerland Universities and research institutions in Switzerland	Computer Science Computer Networks and Communications	Multidisciplinary Digital Publishing Institute (MDPI)	38
PUBLICATION TYPE	ISSN	COVERAGE	INFORMATION
Journals	19995903	2009-2021	Homepage
			How to publish in this journal
			dino.giuli@unifi.it

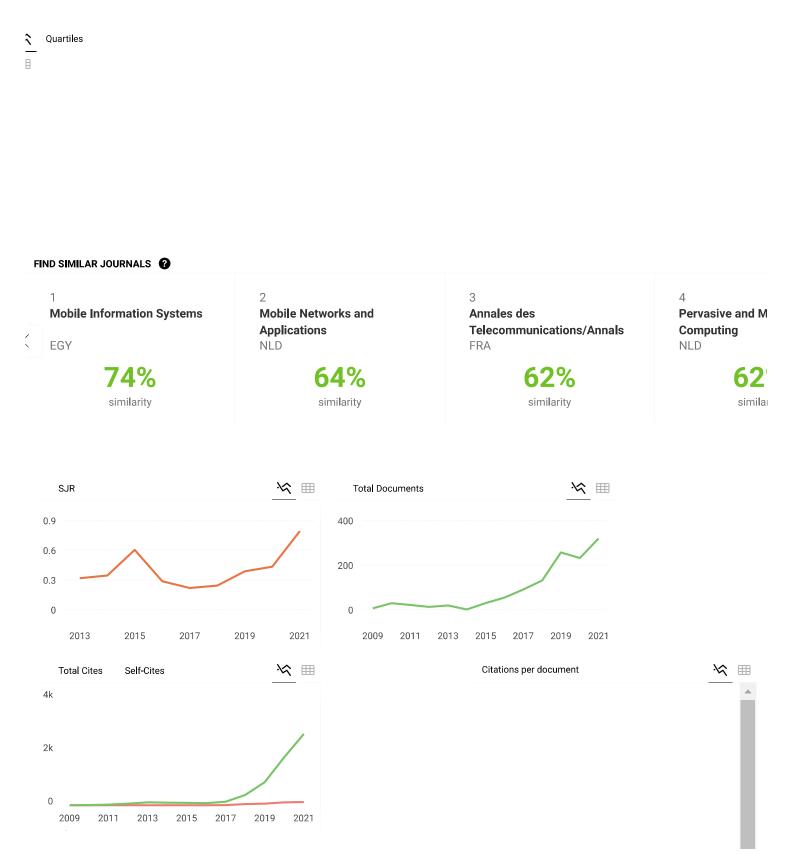
SCOPE

Macro-Area 1: Smart System Technologies and Architecture. Included topics are: • advanced communications network infrastructures • evolution of internet basic services • internet of things • netted peripheral sensors • industrial internet • centralized and distributed data centers • embedded computing • cloud computing • software defined network functions and network virtualization • cloud-let and fog-computing • big data, open data and analytical tools • cyber-physical systems • network and distributed operating systems • web services • semantic structures and related software tools • artificial and augmented intelligence • augmented reality • system interoperability and flexible service composition • smart mission-critical system architectures • smart terminals and applications • pro-sumer tools for application design and development • cyber security compliance • privacy compliance • reliability compliance • dependability compliance • accountability compliance • trust compliance • technical quality of basic services Macro-Area 2: Smart Systems and Applications. Included topics are: • smart mobility and transportation systems • smart utility systems • smart energy systems • smart living places • smart public government systems • smart health-care systems • smart systems for public security and safety • smart social assistance systems[...] Macro-Area 3: Net-Living Human Factors and Quality of Life enhancement [...]

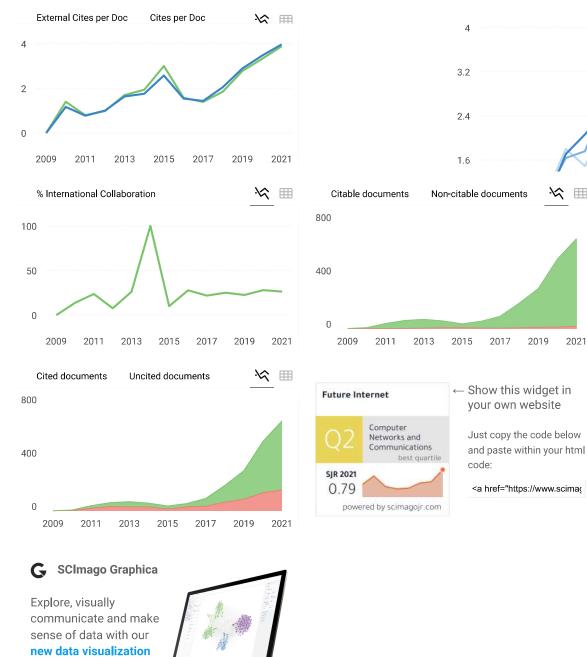
https://www.scimagojr.com/journalsearch.php?q=21100409311&tip=sid&clean=0

Future Internet

 \bigcirc Join the conversation about this journal





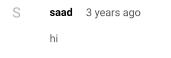


tool.

Metrics based on Scopus® data as of April 2022

Future Internet

2021



reply

2021 Journal Performance Data for: Future Internet

Open Access since 2009

ISSN

NI / A

EISSN

N/A

1999-5903

ISO ABBREVIATION

JCR ABBREVIATION

FUTURE INTERNET Future Internet

Journal Information

EDITION

Emerging Sources Citation Index (ESCI)

LANGUAGES

English

CATEGORY

COMPUTER SCIENCE, INFORMATION SYSTEMS - ESCI

REGION

SWITZERLAND

1ST ELECTRONIC JCR YEAR 2020

Publisher Information

PUBLISHER

MDPI

ADDRESS

ST ALBAN-ANLAGE 66, CH-4052 BASEL, SWITZERLAND PUBLICATION FREQUENCY

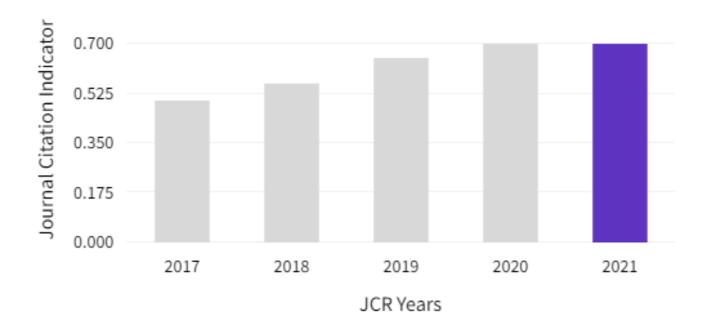
12 issues/year

Journal's Performance

Journal Citation Indicator (JCI)

0.70

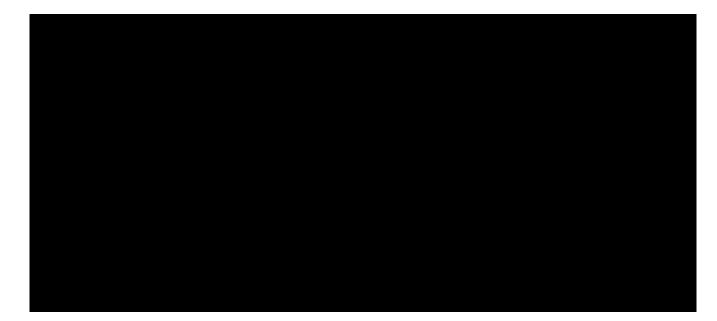
The Journal Citation Indicator (JCI) is the average Category Normalized Citation Impact (CNCI) of citable items (articles & reviews) published by a journal over a recent three year period. The average JCI in a category is 1. Journals with a JCI of 1.5 have 50% more citation impact than the average in that category. It may be used alongside other metrics to help you evaluate journals.



Total Citations

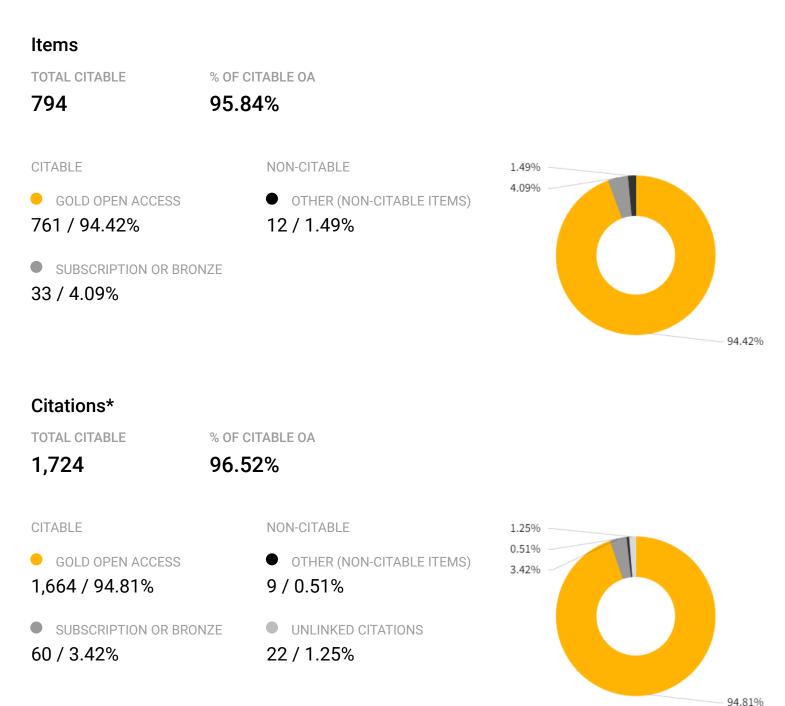
2,736

The total number of times that a journal has been cited by all journals included in the database in the JCR year. Citations to journals listed in JCR are compiled annually from the JCR years combined database, regardless of which JCR edition lists the journal.



Open Access (OA)

The data included in this tile summarizes the items published in the journal in the JCR data year and in the previous two years. For example, in the 2020 JCR data, released in June 2021, the Open Access (OA) data show the publication model (Gold OA or subscription) of materials published in 2018, 2019 and 2020, and citations in 2020 to these items. This three-year set of published items is used to provide descriptive analysis of the content and community of the journal.



* Citations in 2021 to items published in (2019-2021)

Rank by Journal Citation Indicator (JCI)

Journals within a category are sorted in descending order by Journal Citation Indicator (JCI) resulting in the Category Ranking below. A separate rank is shown for each category in which the journal is listed in JCR. Data for the most recent year is presented at the top of the list, with other years shown in reverse chronological order.

Only journals which have a calculated JCI value are included in the JCI ranking. The total number of journals displayed in this ranking may be less than the category overall.

CATEGORY

COMPUTER SCIENCE, INFORMATION SYSTEMS

115/246

JCR YEAR	JCI RANK	QUART ILE	JCI PERCENTILE
2021	115/246	Q2	53.46
2020	96/223	Q2	57.17
2019	111/223	Q2	50.45
2018	128/220	Q3	42.05
2017	138/216	Q3	36.34

Citation network

Cited Half-life

2.6 years

The Cited Half-Life is the median age of the items in this journal that were cited in the JCR year. Half of a journal's cited items were published more recently than the cited half-life.

тотаі 2,73	L NUME 36	BER C	FCIT	ES		n-sel 558	I-SELF CITATIONS			SELF CITATIONS				
									#	OF CITES FRO		CUMULATIVE %	#	OF CITING \$
										2,736 citation	าร	100.00%	89	94 sources
202	21									263 citatior	าร	9.61%	1(05 sources
202	20									593 citatior	าร	31.28%	24	49 sources
201	19									899 citatior	าร	64.14%	37	76 sources
201	18									295 citation	าร	74.92%	19	91 sources
201 Cited Years	17									254 citation	าร	84.20%	1	52 sources
Cited Cited	16									118 citation	าร	88.51%	1(05 sources
201	15									19 citatior	าร	89.20%		19 sources
201	4									70 citatior	าร	91.76%	(62 sources
201	13									87 citatior	าร	94.94%	-	72 sources
201	12									110 citatior	าร	98.96%	Ģ	92 sources
	0 on-self cita	100	200	300	500 er of Cite		700	800		Previous year 28 citatior				

Non-self citations: citations to the journal from the items in other sources

Citations to items in the journal from items in the same journal

Citations used to calculate the Impact Factor

Citing titles in all years

Future Internet

All Others5741Future Internet1782SENSORS1573IEEE Access1564Sustainability995Applied Sciences-Basel866Electronics817LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16		SOURCE NAME	COUNT
2SENSORS1573IEEE Access1564Sustainability995Applied Sciences-Basel866Electronics817LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16		All Others	574
3IEEE Access1564Sustainability995Applied Sciences-Basel866Electronics817LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	1	Future Internet	178
4Sustainability995Applied Sciences-Basel866Electronics817LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	2	SENSORS	157
5Applied Sciences-Basel866Electronics817LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	3	IEEE Access	156
6Electronics817LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	4	Sustainability	99
7LECT NOTES COMPUT SC258ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	5	Applied Sciences-Basel	86
8ISPRS International Journal of Geo-Information219Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	6	Electronics	81
9Computer Networks2010International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	7	LECT NOTES COMPUT SC	25
10International Journal of Advanced Computer Science and Applications2011International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	8	ISPRS International Journal of Geo-Information	21
11International Journal of Environmental Research and Public Health1912WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	9	Computer Networks	20
12WIRELESS PERSONAL COMMUNICATIONS1913Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	10	International Journal of Advanced Computer Science and Applications	20
13Information1814PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	11	International Journal of Environmental Research and Public Health	19
14PeerJ Computer Science1815COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	12	WIRELESS PERSONAL COMMUNICATIONS	19
15COMPUTERS & SECURITY1716IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	13	Information	18
16IEEE Internet of Things Journal1717IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	14	PeerJ Computer Science	18
17IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS1718Security and Communication Networks1719Education Sciences16	15	COMPUTERS & SECURITY	17
18Security and Communication Networks1719Education Sciences16	16	IEEE Internet of Things Journal	17
19Education Sciences16	17	IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS	17
	18	Security and Communication Networks	17
20 Energies 16	19	Education Sciences	16
	20	Energies	16

Showing 1 - 20 rows of 320 total (use export in the relevant section to download the full table)

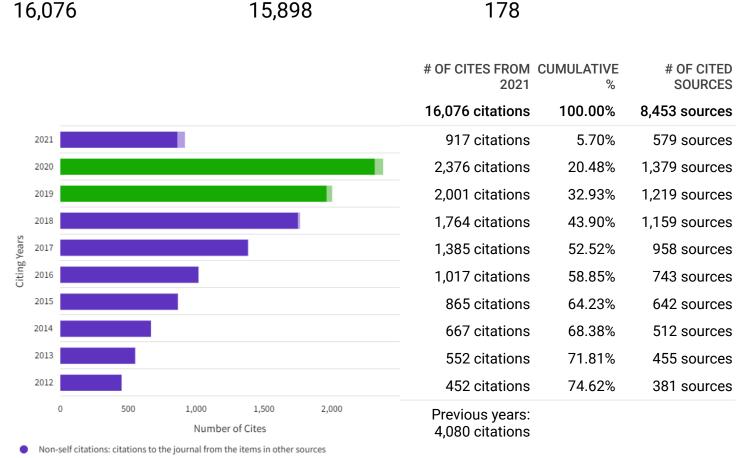
Citing Half-life 4.7 years

The Citing Half-Life is the median age of items in other publications cited by this journal in the JCR year.



NON-SELF CITATIONS

SELF CITATIONS



Citations to items in the journal from items in the same journal

Citations used to calculate the Impact Factor

Cited titles in all years

Future Internet

	SOURCE NAME	COUNT
	All Others	6,851
1	IEEE Access	385
2	Future Internet	178
3	LECT NOTES COMPUT SC	152
4	SENSORS	142
5	PROC CVPR IEEE	136
6	IEEE Internet of Things Journal	116
7	COMPUTERS IN HUMAN BEHAVIOR	102
8	Sustainability	87
9	IEEE Communications Surveys and Tutorials	74
10	Applied Sciences-Basel	71
11	IEEE COMMUNICATIONS MAGAZINE	68
12	EXPERT SYSTEMS WITH APPLICATIONS	65
13	Future Generation Computer Systems-The International Journal of eScience	61
14	IEEE I CONF COMP VIS	60
15	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	55
16	COMPUTERS & EDUCATION	50
17	Computer Networks	49
18	PLoS One	49
19	PROCEDIA COMPUT SCI	43
20	SCIENCE	42

Showing 1 - 20 rows of 1602 total (use export in the relevant section to download the full table)

Content metrics

Source data

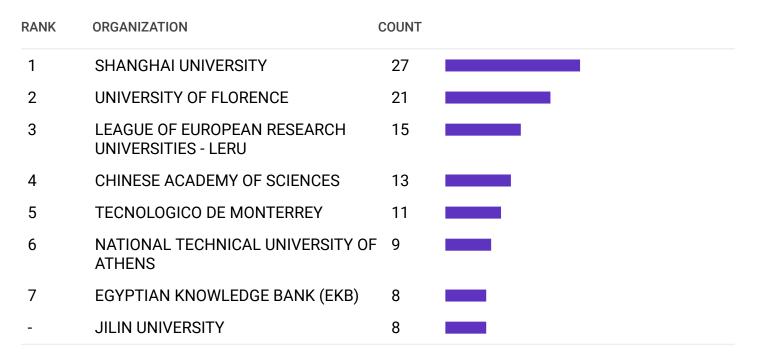
This tile shows the breakdown of document types published by the journal. Citable Items are Articles and Reviews. For the purposes of calculating JIF, a JCR year considers the publications of that journal in the two prior years.

312 total citable items

	ARTICLES	REVIEWS	COMBINED (C)	OTHER DOCUMENT TYPES (O)	PERCENTAGE
NUMBER IN JCR YEAR 2021 (A)	286	26	312	1	100%
NUMBER OF REFERENCES (B)	13,390	2,672	16,062	14	100%
RATIO (B/A)	46.8	102.8	51.5	14.0	

Contributions by Organizations

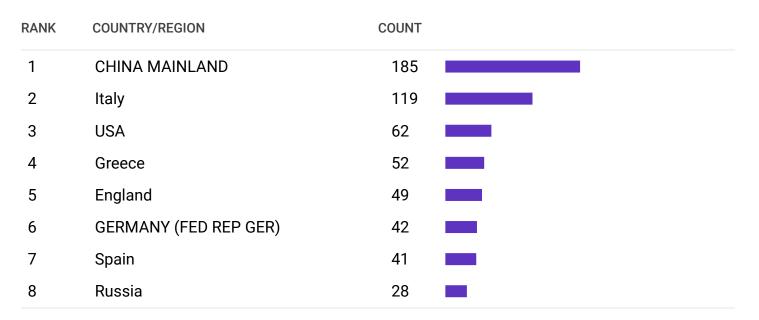
Organizations that have contributed the most papers to the journal in the most recent three-year period.



Showing 1 - 8 rows of 952 total (use export in the relevant section to download the full table)

Contributions by country/region

Countries or Regions that have contributed the most papers to the journal in the most recent threeyear period.



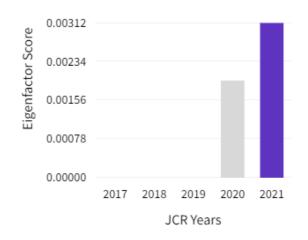
Showing 1 - 8 rows of 84 total (use export in the relevant section to download the full table)

Additional metrics

Eigenfactor score

0.00312

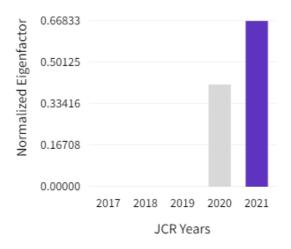
The Eigenfactor Score is a reflection of the density of the network of citations around the journal using 5 years of cited content as cited by the Current Year. It considers both the number of citations and the source of those citations, so that highly cited sources will influence the network more than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



Normalized Eigenfactor

0.66833

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.



Article influence score

0.440

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.

