

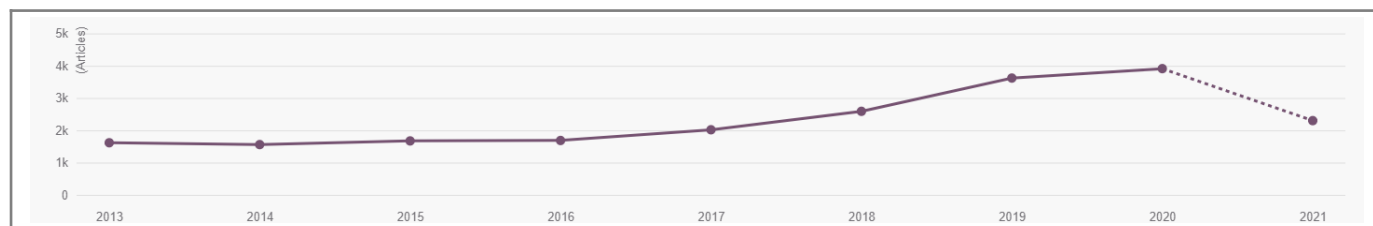
# computer network security

[view online](#)

Report generated from year 2013 to 2021

<p><b>Articles published</b></p> <p>20970 articles published with this Controlled term between 2013 - 2021</p>
<p><b>Articles published % change</b></p> <p>Between 2013 - 2020 article output increased 142.17%</p>
<p><b>Times cited</b></p> <p>Articles published with this controlled term between 2013 - 2021 have been cited 17756 times, with an average of 0.85 citations per article</p>

## Controlled term over time



#	Year	Articles	% Change	Times cited	Avg times cited
1	2013	1615	n/a	3323	2.06
2	2014	1559	-3.47%	3433	2.20
3	2015	1672	7.25%	3341	2.00
4	2016	1686	0.84%	3040	1.80
5	2017	2018	19.69%	2158	1.07
6	2018	2589	28.30%	1632	0.63
7	2019	3619	39.78%	643	0.18
8	2020	3911	8.07%	171	0.04
9	2021	2301	n/a	15	0.01

### Co-occurring concepts

#	Controlled terms	Articles
1	Internet	4637
2	Internet of Things	3926
3	telecommunication traffic	3336
4	learning (artificial intelligence)	2577
5	IP networks	1903
6	software defined networking	1789
7	data privacy	1684
8	cryptography	1656
9	cloud computing	1504
10	protocols	1495
11	invasive software	1493
12	security of data	1474
13	cryptographic protocols	1414
14	pattern classification	1242
15	authorisation	1236
16	transport protocols	1124
17	telecommunication security	1019
18	computer network management	817
19	telecommunication network routing	782
20	wireless LAN	773

Total terms : 2022

#	Subject classifications	Articles
1	C6000 - Computer software	20546
2	C6100 - Software techniques and systems	20543
3	C6130 - Data handling techniques	20472
4	C6130S - Data security	20453
5	B6000 - Communications	19804
6	B6200 - Telecommunication	19686
7	B6210 - Telecommunication applications	19506
8	B6210L - Computer communications	19481
9	C5000 - Computer hardware	18825
10	C5600 - Data communication equipment and techniques	18538
11	C5620 - Computer networks and techniques	18386
12	B6100 - Information and communication theory	7874
13	B6150 - Communication system theory	5551
14	C5620W - Other computer networks	4937
15	C1000 - Systems and control theory	4646
16	B0000 - General topics, engineering mathematics and materials science	4578
17	B6150M - Protocols	4453
18	C1100 - Mathematical techniques	4437
19	B0200 - Engineering mathematics and mathematical techniques	3958
20	B6120 - Modulation and coding methods	3760

Total codes : 848

### Top organisations

#	Organisations	Articles
1	Beijing University of Posts and Telecommunications Beijing, China academic	293
2	Tsinghua University Beijing, China academic	256
3	Institute of Information Engineering Chinese Academy of Sciences Beijing, China academic	229
4	National University of Defense Technology Changsha, China academic	199
5	Xidian University Xian, China academic	167
6	Universite Mohammed V de Rabat Rabat, Morocco academic	164
7	State Grid Corporation of China Beijing, China corporate	162
8	University of Electronic Science and Technology of China Chengdu, China academic	143
9	Beijing Jiaotong University Beijing, China academic	133
10	Nanjing University of Posts and Telecommunications Nanjing, China academic	127

#	Organisations	Articles
11	<a href="#">Southeast University</a> Nanjing, China academic	127
12	<a href="#">National Institute of Technology</a> Calicut, India academic	119
13	<a href="#">Shanghai Jiao Tong University</a> Shanghai, China academic	117
14	<a href="#">Nanyang Technological University</a> Singapore, Singapore academic	113
15	<a href="#">University of New South Wales</a> Sydney, Australia academic	110
16	<a href="#">VIT University</a> Vellore, India academic	106
17	<a href="#">Zhejiang University</a> Hangzhou, China academic	104
18	<a href="#">Indian Institute of Technology Delhi</a> New Delhi, India academic	98
19	<a href="#">Beijing Institute of Technology</a> Beijing, China academic	96
20	<a href="#">Deakin University</a> Burwood, Australia academic	94

Total organisations : 4210

## Journals

#	Journal	Articles
1	IEEE Access	633
2	arXiv	628
3	IEEE Internet of Things Journal	264
4	Journal of Physics: Conference Series	207
5	Computers & Security	168
6	Applied Mechanics and Materials	159
7	Security and Communication Networks	138
8	Security and Communication Networks	127
9	Sensors	119
10	IEEE Transactions on Information Forensics and Security	117
11	IOP Conference Series: Materials Science and Engineering	114
12	Computer Networks	105
13	IEEE Transactions on Network and Service Management	98
14	International Journal of Advanced Computer Science and Applications	89
15	Wireless Personal Communications	85
16	Procedia Computer Science	83
17	International Journal of Communication Systems	80
18	IEEE Transactions on Industrial Informatics	76
19	Advanced Materials Research	73
20	Journal of Network and Computer Applications	73

Total journals : 886

### Conferences

#	Conference	Articles
1	2019 IEEE Global Communications Conference (GLOBECOM)	43
2	2020 IEEE Global Communications Conference (GLOBECOM 2020)	40
3	2018 17th IEEE International Conference On Trust, Security And Privacy In Computing And Communications/ 12th IEEE International Conference On Big Data Science And Engineering (TrustCom/BigDataSE). Proceedings	33
4	ICC 2019 - 2019 IEEE International Conference on Communications (ICC). Proceedings	32
5	2015 IEEE Conference on Communications and Network Security (CNS)	29
6	2019 IFIP/IEEE Symposium on Integrated Network and Service Management (IM)	28
7	2020 IEEE 19th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom)	27
8	ICC 2021 - IEEE International Conference on Communications	27
9	2019 18th IEEE International Conference On Trust, Security And Privacy In Computing And Communications/13th IEEE International Conference On Big Data Science And Engineering (TrustCom/BigDataSE)	26
10	2017 IEEE International Conference on Communications (ICC). Proceedings	25
11	NOMS 2018 - 2018 IEEE/IFIP Network Operations and Management Symposium	25
12	NOMS 2020 - 2020 IEEE/IFIP Network Operations and Management Symposium. Proceedings	25
13	2015 IEEE Military Communications Conference (MILCOM)	23
14	ICC 2020 - 2020 IEEE International Conference on Communications (ICC). Proceedings	22
15	2015 IEEE International Conference on Signal Processing for Communications (ICC)	19
16	2016 IEEE Trustcom/BigDataSE/ISPA	19
17	IEEE INFOCOM 2020 - IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)	19
18	2016 2nd IEEE International Conference on Computer and Communications (ICCC). Proceedings	18
19	2016 IEEE International Conference on Communications (ICC)	18
20	2016 IEEE Military Communications Conference (MILCOM)	18

Total conferences : 5141

### Related controlled terms



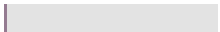
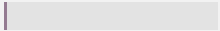
#	Broader terms	Articles
1	<a href="#">security of data</a>	45937
2	<a href="#">telecommunication security</a>	27172
3	<a href="#">computer networks</a>	3948

Total terms : 3

#	Narrower terms	Articles
1	<a href="#">firewalls</a>	1012

Total terms : 1

#	Related terms	Articles
1	<a href="#">Internet</a>	89624
2	<a href="#">cryptography</a>	40964
3	<a href="#">authorisation</a>	15371
4	<a href="#">trusted computing</a>	7904
5	<a href="#">message authentication</a>	6180
6	<a href="#">computer crime</a>	5961

#	Related terms	Articles
7	<a href="#">computer network management</a>	4194 
8	<a href="#">DP management</a>	959 
9	<a href="#">control system security</a>	276 
10	<a href="#">Bring Your Own Device</a>	168 

Total terms : 10

### Related Subject classifications

#	Subject classifications
1	<a href="#">B6210L - Computer communications</a>
2	<a href="#">C0310S - Computing security management</a>
3	<a href="#">C5480 - Security aspects of hardware</a>
4	<a href="#">C5620 - Computer networks and techniques</a>
5	<a href="#">C6130S - Data security</a>

Total codes : 5