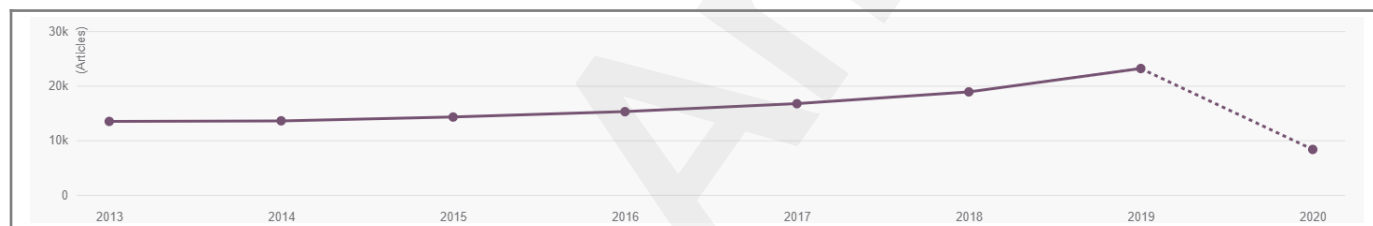# C3390 - Robotics

view online
Report generated from year 2013 to 2020

Articles published

123630 articles published with this Subject classification between **2013 - 2020**

Articles published % change

Between **2013 - 2019** article output increased **71.96%**

Times cited

Articles published with this Subject classification between **2013 - 2020** have been cited **118145** times, with an average of **0.96** citations per article

Subject classification over time

#	Year	Articles	% Change	Times cited	Avg times cited
1	2013	13466	n/a	28540	2.12
2	2014	13573	0.79%	25762	1.90
3	2015	14267	5.11%	24285	1.70
4	2016	15250	6.89%	19662	1.29
5	2017	16708	9.56%	13691	0.82
6	2018	18880	13.00%	5546	0.29
7	2019	23156	22.65%	658	0.03
8	2020	8330	n/a	1	0.00

Co-occurring concepts

#	Controlled terms	Articles	
1	mobile robots	48093	
2	autonomous aerial vehicles	20114	
3	robot vision	16334	
4	path planning	15799	
5	motion control	13398	
6	multi-robot systems	12244	
7	medical robotics	11410	
8	position control	11278	
9	control system synthesis	10605	
10	control engineering computing	10514	
11	collision avoidance	10126	
12	human-robot interaction	9266	
13	manipulators	8616	
14	learning (artificial intelligence)	8403	
15	trajectory control	6921	
16	stability	6875	
17	robot dynamics	6491	
18	optimisation	6201	
19	nonlinear control systems	6086	
20	remotely operated vehicles	6005	

Total terms : 5323

#	Subject classifications	Articles	
1	C3300 - Control applications	123630	
2	C3000 - Control technology	123630	
3	C3390C - Mobile robots	73874	
4	C1000 - Systems and control theory	55850	
5	C3100 - Control and measurement of specific variables	51844	
6	C3120 - Nonelectric variables control	51682	
7	C3120C - Spatial variables control	48770	
8	C1100 - Mathematical techniques	32334	
9	C5000 - Computer hardware	32160	
10	C1300 - Control theory	31935	
11	C3360 - Transportation system control	31596	
12	B6000 - Communications	30300	
13	C5200 - Logic design and digital techniques	29133	
14	C5260 - Digital signal processing	26987	
15	B6100 - Information and communication theory	26118	
16	C6000 - Computer software	25106	
17	C6100 - Software techniques and systems	25106	
18	C3390M - Manipulators	24392	
19	E2000 - Engineering mechanics	24348	
20	C5260B - Computer vision and image processing techniques	23680	

Total codes : 1772

Top organisations

#	Organisations	Articles	
1	**Harbin Institute of Technology** Harbin, China Academic	1918	
2	**Beihang University** Beijing, China Academic	1900	
3	**Beijing Institute of Technology** Beijing, China Academic	1484	
4	**Shanghai Jiao Tong University** Shanghai, China Academic	1157	
5	**Tsinghua University** Beijing, China Academic	1124	
6	**Northwestern Polytechnical University** Xi'an, China Academic	1101	
7	**Massachusetts Institute of Technology** Cambridge, USA Academic	1051	
8	**Georgia Institute of Technology** Atlanta, USA Academic	1027	
9	**Istituto Italiano di Tecnologia** Genova, Italy Academic	1007	
10	**Carnegie Mellon University** Pittsburgh, USA Academic	1004	

#	Organisations		Articles
11	**Technische Universitat Munchen** Munchen, Germany Academic	995	
12	**Zhejiang University** Hangzhou, China Academic	890	
13	**National University of Singapore** Singapore, Singapore Academic	881	
14	**National University of Defense Technology** Changsha, China Academic	851	
15	**Nanjing University of Aeronautics and Astronautics** Nanjing, China Academic	834	
16	**Eidgenossische Technische Hochschule Zurich** Zurich, Switzerland Academic	832	
17	**Nanyang Technological University** Singapore, Singapore Academic	830	
18	**Korea Advanced Institute of Science and Technology** Daejeon, South Korea Academic	810	
19	**Harbin Engineering University** Harbin, China Academic	802	
20	**Tokyo Daigaku** Bunkyo-ku, Japan Academic	790	

Total organisations : 6705

Journals

#	Journal	Articles	
1	arXiv	3360	
2	Applied Mechanics and Materials	1789	
3	IEEE Robotics and Automation Letters	1778	
4	IEEE Access	1490	
5	IFAC - Papers Online	1322	
6	Proceedings of the SPIE	1084	
7	IOP Conference Series: Materials Science and Engineering	1053	
8	Robotics and Autonomous Systems	873	
9	Journal of Intelligent & Robotic Systems	856	
10	IEEE/ASME Transactions on Mechatronics	795	
11	IEEE Transactions on Robotics	787	
12	Sensors	730	
13	Journal of Physics: Conference Series	650	
14	Robotica	607	
15	Advanced Robotics	576	
16	Advanced Materials Research	494	
17	International Journal of Robotics Research	485	
18	Autonomous Robots	437	
19	IEEE Transactions on Industrial Electronics	421	
20	Industrial Robot	397	

Total journals : 2134

Conferences

#	Conference	Articles
1	2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	794
2	2014 IEEE International Conference on Robotics and Automation (ICRA)	778
3	2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	760
4	2015 IEEE International Conference on Robotics and Automation (ICRA). Proceedings	726
5	2019 International Conference on Robotics and Automation (ICRA)	704
6	2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2013)	685
7	2013 IEEE International Conference on Robotics and Automation (ICRA)	681
8	2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	663
9	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	650
10	2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	618
11	2017 IEEE International Conference on Robotics and Automation (ICRA)	596
12	2014 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2014)	583
13	2018 IEEE International Conference on Robotics and Automation (ICRA)	563
14	2016 IEEE International Conference on Robotics and Automation (ICRA)	536
15	2015 IEEE International Conference on Robotics and Biomimetics (ROBIO). Proceedings	320
16	2017 IEEE International Conference on Robotics and Biomimetics (ROBIO)	315
17	2013 IEEE International Conference on Robotics and Biomimetics (ROBIO)	313
18	2019 IEEE International Conference on Robotics and Biomimetics (ROBIO)	308
19	Proceedings of the 2014 IEEE International Conference on Robotics and Biomimetics (ROBIO)	297
20	2018 IEEE International Conference on Robotics and Biomimetics (ROBIO)	269

Total conferences : 7880

Related controlled terms

#	Controlled terms	Articles
1	path planning	14271
2	robot vision	13225
3	multi-robot systems	8776
4	robot dynamics	5148
5	medical robotics	4349
6	human-robot interaction	4231
7	robot kinematics	3789
8	humanoid robots	3400
9	SLAM (robots)	3360
10	service robots	2076
11	industrial robots	1786
12	multi-agent systems	1758
13	aerospace robotics	1726
14	intelligent robots	1382
15	microrobots	1314
16	robot programming	1149
17	robotic assembly	631
18	motion estimation	529
19	mechatronics	388

#	Controlled terms	Articles
20	compliance control	301

Total terms : 29

Related Subject classifications

#	Parent
1	C3300 - Control applications

Total codes : 1

#	Siblings	Articles
1	C3340 - Control of power systems and devices	109050
2	C3360 - Transportation system control	73533
3	C3385 - Biological and medical control systems	19339
4	C3350 - Control in industrial production systems	12432
5	C3355 - Control applications in manufacturing processes	11157
6	C3370 - Control applications in telecommunications	9998
7	C3310 - Natural resources and environmental control	6039
8	C3380 - Control applications in instrumentation systems and laboratory techniques	4084
9	C3365 - Automated buildings	3844
10	C3375 - Military control systems	3576
11	C3320 - Control applications to materials handling	2999
12	C3330 - Control applications in building and civil engineering	2109
13	C3395 - Other applications of control	393

Total codes : 13

#	Children	Articles
1	C3390C - Mobile robots	73874
2	C3390M - Manipulators	24392
3	C3390T - Telerobotics	20809

Total codes : 3