

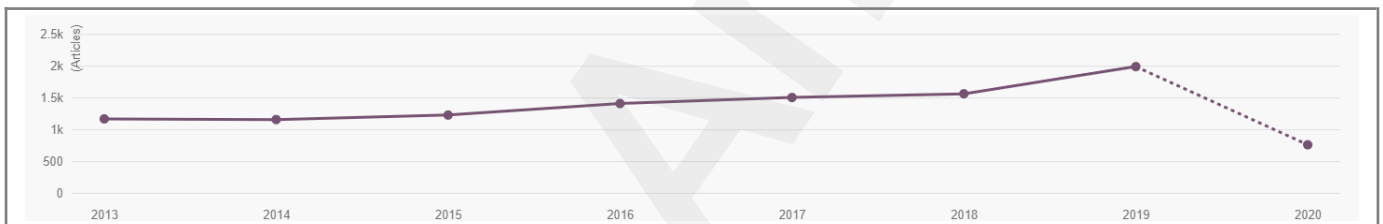
E1550A - Robotics

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Report generated from year 2013 to 2020

<p>Articles published</p> <p>10747 articles published with this Subject classification between 2013 - 2020</p>
<p>Articles published % change</p> <p>Between 2013 - 2019 article output increased 70.62%</p>
<p>Times cited</p> <p>Articles published with this Subject classification between 2013 - 2020 have been cited 11860 times, with an average of 1.10 citations per article</p>

Subject classification over time



#	Year	Articles	% Change	Times cited	Avg times cited
1	2013	1164	n/a	2667	2.29
2	2014	1153	-0.95%	2589	2.25
3	2015	1224	6.16%	2463	2.01
4	2016	1405	14.79%	2175	1.55
5	2017	1500	6.76%	1404	0.94
6	2018	1558	3.87%	528	0.34
7	2019	1986	27.47%	34	0.02
8	2020	757	n/a	0	0

Co-occurring concepts

#	Controlled terms	Articles
1	industrial robots	4304
2	mobile robots	2581
3	industrial manipulators	2190
4	robot vision	1348
5	control engineering computing	1238
6	position control	1188
7	path planning	1160
8	production engineering computing	1131
9	motion control	1076
10	robotic assembly	1007
11	end effectors	763
12	human-robot interaction	726
13	design engineering	710
14	manipulator kinematics	704
15	robotic welding	686
16	robot kinematics	632
17	optimisation	619
18	trajectory control	584
19	grippers	572
20	manipulators	494

Total terms : 3144

#	Subject classifications	Articles
1	E1550 - Control technology and theory	10747
2	E1000 - Manufacturing and production	10747
3	E1500 - Production technology	10747
4	C3000 - Control technology	10072
5	C3300 - Control applications	10021
6	C3390 - Robotics	9717
7	E0000 - General topics in manufacturing and production engineering	4740
8	E2000 - Engineering mechanics	4569
9	C3100 - Control and measurement of specific variables	3936
10	C3120 - Nonelectric variables control	3929
11	E2200 - Mechanical components, systems and devices	3706
12	C3390M - Manipulators	3648
13	C3120C - Spatial variables control	3611
14	C3355 - Control applications in manufacturing processes	3523
15	C1000 - Systems and control theory	3508
16	E1520 - Manufacturing processes	3390
17	E0200 - General support functions	3295
18	C3390C - Mobile robots	3155
19	E2230 - Robot and manipulator mechanics	2904
20	E3000 - Industrial sectors	2847

Total codes : 1101

Top organisations

#	Organisations	Articles
1	Harbin Institute of Technology Harbin, China Academic	163
2	Shanghai Jiao Tong University Shanghai, China Academic	146
3	Tsinghua University Beijing, China Academic	146
4	Beihang University Beijing, China Academic	136
5	Fraunhofer-Gesellschaft zur Forderung der angewandten Forschung eV Munchen, Germany Academic	103
6	Zhejiang University Hangzhou, China Academic	101
7	Asea Brown Boveri Ltd Zurich, Switzerland Corporate	90
8	Technische Universitat Munchen Munche, Germany Academic	89
9	Rheinisch Westfalische Technische Hochschule Aachen Aachen, Germany Academic	88
10	South China University of Technology Guangzhou, China Academic	86

#	Organisations	Articles
11	Institute of Automation Chinese Academy of Sciences Beijing, China Academic	80
12	Nanyang Technological University Singapore, Singapore Academic	80
13	Huazhong University of Science and Technology Wuhan, China Academic	78
14	Nanjing University of Aeronautics and Astronautics Nanjing, China Academic	77
15	Tianjin University Tianjin, China Academic	77
16	Massachusetts Institute of Technology Cambridge, USA Academic	69
17	Beijing Institute of Technology Beijing, China Academic	64
18	Shenyang Institute of Automation Shenyang, China Academic	64
19	Guangdong University of Technology Guangzhou, China Academic	63
20	Wuhan University of Technology Wuhan, China Academic	62

Total organisations : 2577

Journals

#	Journal	Articles
1	Applied Mechanics and Materials	354
2	International Journal of Advanced Manufacturing Technology	228
3	IOP Conference Series: Materials Science and Engineering	224
4	Robotics and Computer-Integrated Manufacturing	171
5	Procedia CIRP	164
6	IFAC - Papers Online	143
7	IEEE Robotics and Automation Letters	137
8	Industrial Robot	137
9	arXiv	126
10	Advanced Materials Research	114
11	IEEE Access	99
12	Procedia Manufacturing	98
13	Proceedings of the SPIE	93
14	Journal of Physics: Conference Series	91
15	Electric Welding Machine	88
16	IEEE/ASME Transactions on Mechatronics	82
17	IEEE Transactions on Automation Science and Engineering	80
18	MATEC Web of Conferences	78
19	Modular Machine Tool & Automatic Manufacturing Technique	66
20	AIP Conference Proceedings	61

Total journals : 773

Conferences

#	Conference	Articles
1	2019 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	54
2	2019 International Conference on Robotics and Automation (ICRA)	49
3	2014 IEEE International Conference on Robotics and Automation (ICRA)	47
4	2017 IEEE International Conference on Robotics and Biomimetics (ROBIO)	47
5	2017 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	42
6	2019 IEEE International Conference on Robotics and Biomimetics (ROBIO)	42
7	2018 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	40
8	2016 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	39
9	2013 44th International Symposium on Robotics (ISR 2013)	38
10	2016 IEEE International Conference on Robotics and Automation (ICRA)	37
11	2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)	35
12	2013 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2013)	33
13	2015 IEEE International Conference on Robotics and Automation (ICRA). Proceedings	33
14	2015 IEEE International Conference on Robotics and Biomimetics (ROBIO). Proceedings	33
15	2017 IEEE International Conference on Robotics and Automation (ICRA)	32
16	2014 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2014)	31
17	2018 IEEE International Conference on Robotics and Automation (ICRA)	31
18	2013 IEEE International Conference on Robotics and Automation (ICRA)	29
19	2018 IEEE International Conference on Robotics and Biomimetics (ROBIO)	29
20	2015 IEEE International Conference on Automation Science and Engineering (CASE)	28

Total conferences : 1801

Related controlled terms

#	Controlled terms	Articles

Total terms : 0

Related Subject classifications

#	Parent
1	E1550 - Control technology and theory

Total codes : 1

#	Siblings	Articles

Total codes : 0

#	Children	Articles

Total codes : 0