Serdar Kucuk

List of Publications by Year
in descending order

21 papers	671 citations	687363 13 h-index	940533 16 g-index
21 all docs	21 docs citations	21 times ranked	549 citing authors

#	Article	IF	Citations
1	Comparative study of performance indices for fundamental robot manipulators. Robotics and Autonomous Systems, 2006, 54, 567-573.	5.1	102
2	Inverse kinematics solutions for industrial robot manipulators with offset wrists. Applied Mathematical Modelling, 2014, 38, 1983-1999.	4.2	100
3	Energy minimization for 3-RRR fully planar parallel manipulator using particle swarm optimization. Mechanism and Machine Theory, 2013, 62, 129-149.	4.5	82
4	Optimal trajectory generation algorithm for serial and parallel manipulators. Robotics and Computer-Integrated Manufacturing, 2017, 48, 219-232.	9.9	80
5	A dexterity comparison for 3-DOF planar parallel manipulators with two kinematic chains using genetic algorithms. Mechatronics, 2009, 19, 868-877.	3.3	41
6	Dexterous workspace optimization of an asymmetric six-degree of freedom Stewartâ€“Gough platform type manipulator. Robotics and Autonomous Systems, 2013, 61, 1516-1528.	5.1	40
7	Dexterous Workspace Optimization for a New Hybrid Parallel Robot Manipulator. Journal of Mechanisms and Robotics, 2018, 10, .	2.2	34
8	Maximal dexterous trajectory generation and cubic spline optimization for fully planar parallel manipulators. Computers and Electrical Engineering, 2016, 56, 634-647.	4.8	32
9	A novel kinematic design, analysis and simulation tool for general Stewart platforms. Simulation, 2013, 89, 876-897.	1.8	27
10	Dimensional optimization of 6-DOF 3-CCC type asymmetric parallel manipulator. Advanced Robotics, 2014, 28, 625-637.	1.8	26
11	Simulation and design tool for performance analysis of planar parallel manipulators. Simulation, 2012, 88, 542-556.	1.8	24
12	A method for more accurate FEA results on a medical device developed by 3D technologies. Polymers for Advanced Technologies, 2018, 29, 2281-2286.	3.2	23
13	Inverse kinematics solution of a new hybrid robot manipulator proposed for medical purposes. , 2016, , .		17
14	A universal selfâ€eroding sacrificial bioink that enables bioprinting at room temperature. Polymers for Advanced Technologies, 2020, 31, 1634-1647.	3.2	13
15	Additive manufacturing and biomechanical validation of a patientâ€specific diabetic insole. Polymers for Advanced Technologies, 2020, 31, 988-996.	3.2	13
16	Development of derivation of inverse Jacobian matrices for 195 6-DOF GSP mechanisms. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 4142-4153.	1.4	8
17	Parallel manipulator software tool for design, analysis, and simulation of 195 GSP mechanisms. Computer Applications in Engineering Education, 2015, 23, 931-946.	3.4	5
18	Design and Dynamic Model of A Novel Powered Above Knee Prosthesis. , 2019, , .		3

#	Article	IF	Citations
19	Trajectory planning of electronically controlled prosthesis by using third-order polynomial. , 2017, , .		1
20	6 Serbestlik Derecesine Sahip 3-CCC Tipi Robot Ä°Ã§in Ä°Ki TasarÄ±m Ã–nerisi ve Ã‡alÄ±ÅŸma UzayÄ± KarÅŸÄ±laÅŸtÄ±rmasÄ±. Journal of Polytechnic, 0, , .	0.7	0
21	Effects of Kinematics Design on Tracking Performance of Model-Based Adaptive Control. , 2007, , 655-663.		0