

Ravi Kumar Mandava

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

109
citations

7
h-index

9
g-index

36
ext. papers

172
ext. citations

1.1
avg, IF

3.59
L-index

#	Paper	IF	Citations
31	A Short Review on Biped Robots Motion Planning and Trajectory Design. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 471-480	0.4	0
30	Development of an Optimal PID Controller for the 4-DOF Manipulator Using Genetic Algorithm. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 23-32	0.4	1
29	Optimization of Turning Process Parameters Using Entropy-Gra and Dear Methods. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 315-324	0.4	1
28	Design and development of an adaptive-torque-based proportional-integral-derivative controller for a two-legged robot. <i>Soft Computing</i> , 2021 , 25, 10953-10968	3.5	1
27	Development of path planning algorithm for biped robot using combined multi-point RRT and visibility graph. <i>International Journal of Information Technology (Singapore)</i> , 2021 , 13, 1513-1519	1.4	1
26	Optimization of wear and frictional parameters using IWO and PSO algorithms. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021 , 1136, 012075	0.4	
25	Dry sliding wear behavior of Al 6082 metal matrix composites reinforced with red mud particles. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	23
24	Development of Path Tracking Control Algorithm for a 4 DOF Spatial Manipulator Using PID Controller 2020 , 433-445		
23	Design and Comparison of Two Evolutionary and Hybrid Neural Network Algorithms in Obtaining Dynamic Balance for Two-Legged Robots. <i>Springer Tracts in Nature-inspired Computing</i> , 2020 , 344-363	1.8	0
22	Design of Optimal State Observer-Based Controller for 4-DOF Planar Manipulator Using PSO. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 151-162	0.4	0
21	Design and Analysis of 3-DOF Spatial Serial Manipulator for Warehouse Applications. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 171-178	0.4	1
20	Effect of Red Mud on Mechanical and Microstructural Characteristics of Aluminum Matrix Composites. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 75-82	0.4	1
19	An adaptive PID control algorithm for the two-legged robot walking on a slope. <i>Neural Computing and Applications</i> , 2020 , 32, 3407-3421	4.8	7
18	Push recovery system and balancing of a biped robot on steadily increasing slope of an inclined plane. <i>International Journal of Computational Vision and Robotics</i> , 2019 , 9, 70	0.7	1
17	An analytical approach for generating balanced gaits of a biped robot on stairs and sloping surfaces. <i>International Journal of Modelling, Identification and Control</i> , 2019 , 33, 28	0.6	1
16	An Optimized Path Planning for the Mobile Robot Using Potential Field Method and PSO Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 139-150	0.4	10
15	Application of hybrid fast marching method to determine the real-time path for the biped robot. <i>Intelligent Service Robotics</i> , 2019 , 12, 125-136	2.6	1

14	An optimal PID controller for a biped robot walking on flat terrain using MCIWO algorithms. <i>Evolutionary Intelligence</i> , 2019 , 12, 33-48	1.7	8
13	Design of Near-Optimal Trajectories for the Biped Robot Using MCIWO Algorithm. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 355-364	0.4	0
12	Implementation of modified chaotic invasive weed optimization algorithm for optimizing the PID controller of the biped robot. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2018 , 43, 1	1	5
11	Whole body motion generation of 18-DOF biped robot on flat surface during SSP & DSP. <i>International Journal of Modelling, Identification and Control</i> , 2018 , 29, 266	0.6	9
10	An Efficient Path Planning Algorithm for Biped Robot using Fast Marching Method. <i>Procedia Computer Science</i> , 2018 , 133, 116-123	1.6	6
9	Tuning of PID Controller Parameters of a Biped Robot using IWO Algorithm 2018 ,		1
8	Near Optimal PID Controllers for the Biped Robot While Walking on Uneven Terrains. <i>International Journal of Automation and Computing</i> , 2018 , 15, 689-706	3.5	10
7	Study on Influence of Hip Trajectory on the Balance of a Biped Robot. <i>Lecture Notes in Electrical Engineering</i> , 2017 , 265-272	0.2	3
6	Effect of Binder and Mold parameters on Collapsibility and Surface Finish of Gray Cast Iron No-bake Sand Molds. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017 , 225, 012246	0.4	1
5	Development of Path Tracking Control Algorithm for a 4 DOF Spatial Manipulator Using PID Controller. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2017 , 314-327	0.5	
4	Forward and inverse kinematic based full body gait generation of biped robot 2016 ,		3
3	Design of PID controllers for 4-DOF planar and spatial manipulators 2015 ,		8
2	An Efficient Path Planning Algorithm for the Biped Robot in a Static Environment using Fast Sweeping Method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 095440622210751	1.3	0
1	Wear and Frictional Behaviour of Al 7075/FA/SiC Hybrid MMC _B Using Response Surface Methodology. <i>Silicon</i> , 1	2.4	3