

Shital S Chiddarwar

List of Publications by Year in descending order

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45
papers

518
citations

1040056

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48
all docs

48
docs citations

48
times ranked

493
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of RBF and MLP neural networks to solve inverse kinematic problem for 6R serial robot by a fusion approach. Engineering Applications of Artificial Intelligence, 2010, 23, 1083-1092.	8.1	99
2	Adaptive robust control of Mecanum-wheeled mobile robot with uncertainties. Nonlinear Dynamics, 2017, 87, 2147-2169.	5.2	96
3	Novel integrated offline trajectory generation approach for robot assisted spray painting operation. Journal of Manufacturing Systems, 2015, 37, 201-216.	13.9	52
4	Conflict free coordinated path planning for multiple robots using a dynamic path modification sequence. Robotics and Autonomous Systems, 2011, 59, 508-518.	5.1	43
5	Incremental approach for trajectory generation of spray painting robot. Industrial Robot, 2015, 42, 228-241.	2.1	42
6	ReBiS - Reconfigurable Bipedal Snake robot. , 2014, , .		24
7	A robust adaptive control of mecanum wheel mobile robot: simulation and experimental validation. , 2016, , .		21
8	Optimal trajectory planning for industrial robot along a specified path with payload constraint using trigonometric splines. International Journal of Automation and Control, 2012, 6, 39.	0.5	16
9	Intuitive dynamic modeling and flatness-based nonlinear control of a mobile robot. Simulation, 2018, 94, 797-820.	1.8	16
10	Simultaneous balancing and trajectory tracking control for an omnidirectional mobile robot with a cylinder using switching between two robust controllers. International Journal of Advanced Robotic Systems, 2017, 14, 172988141773872.	2.1	13
11	Multi-Agent System for Off-Line Coordinated Motion Planning of Multiple Industrial Robots. International Journal of Advanced Robotic Systems, 2011, 8, 11.	2.1	10
12	Kinematics-based approach for robot programming via human arm motion. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 2659-2675.	1.6	9
13	Robot programming by demonstration using teleoperation through imitation. Industrial Robot, 2017, 44, 142-154.	2.1	8
14	Design and implementation of Omni-directional spherical modular snake robot (OSMOS). , 2017, , .		6
15	Dynamic priority allocation for conflict free coordinated manipulation of multiple agents. , 2009, , .		5
16	Offline decoupled path planning approach for effective coordination of multiple robots. Robotica, 2010, 28, 477-491.	1.9	5
17	Robust Trajectory Tracking Control for an Omnidirectional Mobile Robot. , 2017, , .		5
18	Design and motion analysis of Compliant Omnidirectional Spherical Modular Snake Robot (COSMOS). , 2018, , .		5

#	ARTICLE	IF	CITATIONS
19	Flatness-based control scheme for hardware-in-the-loop simulations of omnidirectional mobile robot. Simulation, 2020, 96, 169-183.	1.8	5
20	Design of robust adaptive controller for a four wheel omnidirectional mobile robot. , 2015, , .		4
21	Design analysis and development of low cost underactuated Robotic hand. , 2016, , .		4
22	Mobile Robot Control Using Bond Graph and Flatness Based Approach. Procedia Computer Science, 2018, 133, 213-221.	2.0	4
23	Deep Learning-Based Stair Segmentation and Behavioral Cloning for Autonomous Stair Climbing. International Journal of Semantic Computing, 2019, 13, 497-512.	0.5	4
24	Real Time Human Computer Interaction Using Facial Gestures. , 2019, , .		3
25	Application of human arm kinematics for robot path programming using imitation. , 2015, , .		2
26	An integrated approach for robot training using Kinect and human arm kinematics. , 2015, , .		2
27	Optimal velocity trajectory generation for spray painting robot in offline mode. , 2015, , .		2
28	Imitation Learning in Industrial Robots. , 2017, , .		2
29	Coordination Strategy for Path Planning of Multiple Manipulators in Workcell Environment. , 2007, , .		2
30	Dynamic modelling of four wheel skid mobile robot by unified bond graph approach. , 2016, , .		1
31	Dynamic modelling and simulation of a three-Wheeled Omnidirectional Mobile Robot. , 2017, , .		1
32	Modeling and Simulation of a Wheeled Mobile Robot in Open-Loop Control. , 2019, , .		1
33	A Framework for Robot Programming via Imitation. Lecture Notes in Mechanical Engineering, 2021, , 743-750.	0.4	1
34	Burr Registration Using Image Processing. Lecture Notes in Mechanical Engineering, 2021, , 321-330.	0.4	1
35	Motion Programming of SCORBOT ER-4u Using Fusion of Robot Kinematics and Inertial Sensor. Lecture Notes in Mechanical Engineering, 2016, , 263-273.	0.4	1
36	Motion Control of Omnidirectional Mobile Robot Using Bond Graph and Flatness-Based Controller. Lecture Notes in Mechanical Engineering, 2021, , 819-829.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Tip-over stability of omni-directional mobile robot. , 2015, , .		0
38	Automated CAD Based Trajectory for Spray Painting Robot: Variable Velocity Approach. , 2015, , .		0
39	Dynamic characteristics analysis of a lead screw by considering the variation in thread parameters. IOP Conference Series: Materials Science and Engineering, 2019, 624, 012007.	0.6	0
40	An approach to determine condition of boring tool using acoustic & vibration signals. IOP Conference Series: Materials Science and Engineering, 2019, 627, 012002.	0.6	0
41	Design of Robust Backstepping Controller for Four-Wheeled Mecanum Mobile Robot. Lecture Notes in Mechanical Engineering, 2022, , 1125-1134.	0.4	0
42	Kinematic Modelling of UR5 Cobot Using Dual Quaternion Approach. Lecture Notes in Mechanical Engineering, 2022, , 1077-1085.	0.4	0
43	Bond graph based flatness control of four wheeled differentially driven mobile robot. , 2019, , .		0
44	Localization of a Four-Wheeled Omnidirectional Mobile Robot Using Sensor Data: A Kalman Filter Approach. Lecture Notes in Mechanical Engineering, 2021, , 75-82.	0.4	0
45	Dual Quaternion-Based Kinematic Modelling of Serial Manipulators. Lecture Notes in Mechanical Engineering, 2021, , 1-7.	0.4	0