Zvi Shiller

List of Publications by Year
in descending order

20 papers	2,022 citations	933264 10 h-index	1199470 12 g-index
21 all docs	21 docs citations	21 times ranked	1319 citing authors

#	ARTICLE	IF	CITATIONS
1	Motion Planning in Dynamic Environments Using Velocity Obstacles. International Journal of Robotics Research, 1998, 17, 760-772.	5.8	1,362
2	Robot Path Planning with Obstacles, Actuator, Gripper, and Payload Constraints. International Journal of Robotics Research, 1989, 8, 3-18.	5.8	224
3	Navigation Among Moving Obstacles Using the NLVO: Principles and Applications to Intelligent Vehicles. Autonomous Robots, 2005, 19, 159-171.	3.2	75
4	Time-Energy Optimal Control of Articulated Systems With Geometric Path Constraints. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1996, 118, 139-143.	0.9	73
5	The Traction Trebuchet: A Triumph of Four Civilizations. Viator - Medieval and Renaissance Studies, 2000, 31, 433-486.	0.3	57
6	Planning high order trajectories with general initial and final conditions and asymmetric bounds. International Journal of Robotics Research, 2014, 33, 898-916.	5.8	38
7	Efficient and safe on-line motion planning in dynamic environments. , 2009, , .		29
8	A Bottom-Up Approach to Teaching Robotics and Mechatronics to Mechanical Engineers. IEEE Transactions on Education, 2013, 56, 103-109.	2.0	20
9	Online obstacle avoidance at high speeds. International Journal of Robotics Research, 2013, 32, 1030-1047.	5.8	19
10	Near-optimal navigation of high speed mobile robots on uneven terrain. , 2008, , .		18
11	Optimal Robot Motion Planning and Work-Cell Layout Design. Robotica, 1997, 15, 31-40.	1.3	15
12	Adaptive time horizon for on-line avoidance in dynamic environments. , 2011, , .		14
13	Deep Reinforcement Learning for Time Optimal Velocity Control using Prior Knowledge. , 2019, , .		12
14	Dynamic stability of off-road vehicles: Quasi-3D analysis. , 2008, , .		9
15	Dynamic Stability of Off-Road Vehicles Considering a Longitudinal Terramechanics Model. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	8
16	Model-Based Reinforcement Learning for Time-Optimal Velocity Control. IEEE Robotics and Automation Letters, 2020, 5, 6185-6192.	3.3	8
17	High speed on-line motion planning in cluttered environments. , 2012, , .		7
18	Control allocation of all-wheel drive vehicles: A longitudinal model. , 2013, , .		4

#	Article	IF	Citations
19	Adaptive time horizon for on-line avoidance in dynamic environments. , 2011, , .		3
20	A Bottom Up Approach to Teaching Mechatronics. , 2006, , .		1