Jayantha Katupitiya

List of Publications by Year
in descending order

27 papers	286 citations	1684188 5 h-index	1872680 6 g-index
27 all docs	27 docs citations	27 times ranked	254 citing authors

#	Article	IF	Citations
1	Nonlinear sliding mode control of an unmanned agricultural tractor in the presence of sliding and control saturation. Robotics and Autonomous Systems, 2013, 61, 973-987.	5.1	76
2	Global Correlation Based Ground Plane Estimation Using V-Disparity Image. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	39
3	Cooperative autonomous platoon maneuvers on highways. , 2013, , .		20
4	Robust sliding mode control of an agricultural tractor under the influence of slip. , 2009, , .		19
5	Simulation of a tractor-implement model under the influence of lateral disturbances. , 2007, , .		16
6	A nonlinear PI and backstepping-based controller for tractor-steerable trailers influenced by slip. , 2012, , .		13
7	Internetâ€based operation of autonomous robots: The role of data replication, compression, bandwidth allocation and visualization. Journal of Field Robotics, 2012, 29, 793-818.	6.0	12
8	A robust attitude controller for a spacecraft equipped with a robotic manipulator. , 2016, , .		11
9	Systems Engineering Approach to Agricultural Automation: New Developments. , 2007, , .		10
10	Detection of non-flat ground surfaces using V-Disparity images. , 2009, , .		10
11	A Fast Stereo Vision Algorithm With Improved Performance at Object Borders. , 2006, , .		7
12	Line Segment Based Scan Matching for Concurrent Mapping and Localization of a Mobile Robot. , 2006, , .		7
13	Free Space Mapping and Motion Planning in Configuration Space for Mobile Manipulators. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	7
14	ARCHITECTURE OF AN AUTOMATED AGRICULTURAL TRACTOR: HARDWARE, SOFTWARE AND CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 97-102.	0.4	6
15	A Procedure to make the Probabilistic Odometry Motion Model of an Autonomous Wheelchair. , 2006, , .		5
16	Hovering control of vectored thrust aerial vehicles. , 2010, , .		5
17	Applied Guidance Methodologies for Off-road Vehicles. Springer Tracts in Advanced Robotics, 2020, , .	0.4	5
18	Modelling the Environment of a Mobile Robot using Feature Based Principal Component Analysis. , 2006, , .		4

#	Article	IF	Citations
19	Modeling and control of a platoon of autonomous buses. , 2013, , .		4
20	A Dynamic Programming Approach Based Stereo Vision Algorithm Improving Object Border Performance. , 2006, , .		2
21	Laser scan matching for measurement update in a particle filter. , 2007, , .		2
22	Novel robotic 3D surface mapping using range and vision fusion. , 2010, , .		2
23	A sliding mode controller with disturbance observer for a farm vehicle operating in the presence of wheel slip. , 2013, , .		2
24	Sensor Relevance Validation for Autonomous Mobile Robot Navigation. , 2006, , .		1
25	Post-impact Motion Control of a Space Robot with Flexible Manipulator. , 2018, , .		1
26	Localization of Visually Indistinguishable Mature Lettuce Heads Using Spatial Information. , 2008, , .		0
27	Design of Controllers. Springer Tracts in Advanced Robotics, 2020, , 53-88.	0.4	0