

Jayantha Katupitiya

List of Publications by Year in descending order

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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	Applied Guidance Methodologies for Off-road Vehicles. Springer Tracts in Advanced Robotics, 2020, , .	0.4	5
2	Design of Controllers. Springer Tracts in Advanced Robotics, 2020, , 53-88.	0.4	0
3	Post-impact Motion Control of a Space Robot with Flexible Manipulator. , 2018, , .		1
4	A robust attitude controller for a spacecraft equipped with a robotic manipulator. , 2016, , .		11
5	A sliding mode controller with disturbance observer for a farm vehicle operating in the presence of wheel slip. , 2013, , .		2
6	Modeling and control of a platoon of autonomous buses. , 2013, , .		4
7	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
8	Cooperative autonomous platoon maneuvers on highways. , 2013, , .		20
9	A nonlinear PI and backstepping-based controller for tractor-steerable trailers influenced by slip. , 2012, , .		13
10	Internet-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
11	Hovering control of vectored thrust aerial vehicles. , 2010, , .		5
12	Novel robotic 3D surface mapping using range and vision fusion. , 2010, , .		2
13	Robust sliding mode control of an agricultural tractor under the influence of slip. , 2009, , .		19
14	Detection of non-flat ground surfaces using V-Disparity images. , 2009, , .		10
15	Localization of Visually Indistinguishable Mature Lettuce Heads Using Spatial Information. , 2008, , .		0
16	Free Space Mapping and Motion Planning in Configuration Space for Mobile Manipulators. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	7
17	Simulation of a tractor-implement model under the influence of lateral disturbances. , 2007, , .		16
18	Laser scan matching for measurement update in a particle filter. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
19	Global Correlation Based Ground Plane Estimation Using V-Disparity Image. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	39
20	Systems Engineering Approach to Agricultural Automation: New Developments. , 2007, , .		10
21	A Procedure to make the Probabilistic Odometry Motion Model of an Autonomous Wheelchair. , 2006, , .		5
22	Modelling the Environment of a Mobile Robot using Feature Based Principal Component Analysis. , 2006, , .		4
23	Sensor Relevance Validation for Autonomous Mobile Robot Navigation. , 2006, , .		1
24	A Dynamic Programming Approach Based Stereo Vision Algorithm Improving Object Border Performance. , 2006, , .		2
25	A Fast Stereo Vision Algorithm With Improved Performance at Object Borders. , 2006, , .		7
26	Line Segment Based Scan Matching for Concurrent Mapping and Localization of a Mobile Robot. , 2006, , .		7
27	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