

# Lindsay Kleeman

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,087  
citations

759233

12  
h-index

526287

27  
g-index

66  
all docs

66  
docs citations

66  
times ranked

749  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recursive Formulations for N Input Asynchronous First Come First Served Arbiters. , 2020, , .		0
2	Event-Based Motion Segmentation by Motion Compensation. , 2019, , .		84
3	Coordinated Nodding of a Two-Dimensional Lidar for Dense Three-Dimensional Range Measurements. IEEE Robotics and Automation Letters, 2018, 3, 4108-4115.	5.1	11
4	A novel odometry model for wheeled mobile robots incorporating linear acceleration. , 2017, , .		2
5	A novel hardware plane fitting implementation and applications for bionic vision. Machine Vision and Applications, 2016, 27, 967-982.	2.7	3
6	Sonar Sensing. Springer Handbooks, 2016, , 753-782.	0.6	10
7	Mobile robot floor classification using motor current and accelerometer measurements. , 2016, , .		2
8	Robot calibration of sensor poses and region based odometry using offline optimisation of map information. , 2015, , .		2
9	Online robot odometry calibration over multiple regions classified by floor colour. , 2015, , .		2
10	Recursive Approach to the Design of a Parallel Self-Timed Adder. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 213-217.	3.1	7
11	Algorithmic methodologies for FPGA-based vision. Machine Vision and Applications, 2013, 24, 1197-1211.	2.7	13
12	A reduced data bandwidth integrated electrode driver for visual intracortical neural stimulation in high voltage CMOS. Microelectronics Journal, 2013, 44, 277-282.	2.0	4
13	Psychophysics testing of bionic vision image processing algorithms using an FPGA Hatpack. , 2013, , .		10
14	A Real-Time and Portable Bionic Eye Simulator. Communications in Computer and Information Science, 2013, , 51-67.	0.5	1
15	Autonomous loop exploration and SLAM with fusion of advanced sonar and laser polar scan matching. Robotica, 2012, 30, 91-105.	1.9	4
16	A sonar ring with continuous matched filtering and dynamically switched templates. Robotica, 2012, 30, 891-912.	1.9	3
17	A double refresh rate sonar ring with FPGA-based continuous matched filtering. Robotica, 2012, 30, 1051-1062.	1.9	4
18	Transformative Reality: Improving bionic vision with robotic sensing. , 2012, 2012, 304-7.		16

#	ARTICLE	IF	CITATIONS
19	Transformative reality: Augmented reality for visual prostheses. , 2011, , .		8
20	Getting More From the Semiconductor Test: Data Mining With Defect-Cluster Extraction. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 3300-3317.	4.7	29
21	Discovering and restoring changes in object positions using an autonomous robot with laser rangefinders. Robotics and Autonomous Systems, 2011, 59, 428-443.	5.1	6
22	Segmentation and modeling of visually symmetric objects by robot actions. International Journal of Robotics Research, 2011, 30, 1124-1142.	8.5	20
23	Automatic Defect Cluster Extraction for Semiconductor Wafers. , 2010, , .		14
24	Robust online map merging system using laser scan matching and omnidirectional vision. , 2010, , .		15
25	Fast and Accurate Automatic Defect CLuster Extraction for Semiconductor Wafers. , 2010, , .		4
26	Interactive learning of visually symmetric objects. , 2009, , .		8
27	An advanced sonar ring design with 48 channels of continuous echo processing using matched filters. , 2009, , .		11
28	Robust Appearance Based Visual Route Following for Navigation in Large-scale Outdoor Environments. International Journal of Robotics Research, 2009, 28, 331-356.	8.5	62
29	Paired Measurement Localization: A Robust Approach for Wireless Localization. IEEE Transactions on Mobile Computing, 2009, 8, 1087-1102.	5.8	35
30	Loop exploration for SLAM with fusion of advanced sonar features and laser polar scan matching. , 2009, , .		7
31	Sonar Sensing. , 2008, , 491-519.		35
32	Self-Localization Schemes for Geographic Routing in Wireless Sensor Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	0
33	Bilateral Symmetry Detection for Real-time Robotics Applications. International Journal of Robotics Research, 2008, 27, 785-814.	8.5	8
34	Autonomous segmentation of Near-Symmetric objects through vision and robotic nudging. , 2008, , .		3
35	Fast Laser Scan Matching using Polar Coordinates. International Journal of Robotics Research, 2007, 26, 1125-1153.	8.5	109
36	Sensor design and signal processing for an advanced sonar ring. Robotica, 2006, 24, 433-446.	1.9	8

#	ARTICLE	IF	CITATIONS
37	Simultaneous landmark classification, localization and map building for an advanced sonar ring. Robotica, 2006, 25, 283-296.	1.9	24
38	Real Time Object Tracking using Reflectional Symmetry and Motion. , 2006, , .		13
39	Topological Mapping Inspired by Techniques in DNA Sequence Alignment. , 2006, , .		2
40	Real Time Detection and Segmentation of Reflectionally Symmetric Objects in Digital Images. , 2006, , .		5
41	4 3D Object Modelling and Classification. , 2006, , 57-83.		1
42	2 Foundations of Visual Perception and Control. , 2006, , 11-30.		0
43	3 Shape Recovery Using Robust Light Stripe Scanning. , 2006, , 31-56.		0
44	5 Multi-cue 3D Model-Based Object Tracking. , 2006, , 85-113.		0
45	6 Hybrid Position-Based Visual Servoing. , 2006, , 115-144.		0
46	7 System Integration and Experimental Results. , 2006, , 145-170.		0
47	8 Summary and Future Work. , 2006, , 171-175.		0
48	MULTI-SENSORY SYNERGIES IN HUMANOID ROBOTICS. International Journal of Humanoid Robotics, 2004, 01, 289-314.	1.1	3
49	Ultrasonic Sensors in Robotics. Industrial Electronics Series, 2004, , 1194-1200.	0.0	0
50	Real time mobile robot sonar with interference rejection. Sensor Review, 1999, 19, 214-221.	1.8	12
51	Fast-Bearing Measurement with a Single Ultrasonic Transducer. International Journal of Robotics Research, 1998, 17, 1202-1213.	8.5	12
52	Large Scale Sonarray Mapping using Multiple Connected Local Maps. , 1998, , 507-514.		15
53	Ultrasonic classification and location of 3D room features using maximum likelihood estimation - Part I. Robotica, 1997, 15, 483-491.	1.9	17
54	Ultrasonic classification and location of 3D room features using maximum likelihood estimation - Part II. Robotica, 1997, 15, 645-652.	1.9	10

#	ARTICLE	IF	CITATIONS
55	A three dimensional localiser for autonomous robot vehicles. Robotica, 1995, 13, 87-94.	1.9	11
56	Mobile Robot Sonar for Target Localization and Classification. International Journal of Robotics Research, 1995, 14, 295-318.	8.5	245
57	An autonomous robot navigation system - integrating environmental mapping, path planning, localisation and motion control. Robotica, 1993, 11, 97-103.	1.9	12
58	The jitter model for metastability and its application to redundant synchronizers. IEEE Transactions on Computers, 1990, 39, 930-942.	3.4	12
59	On the Unavoidability of Metastable Behavior in Digital Systems. IEEE Transactions on Computers, 1987, C-36, 109-112.	3.4	24
60	The analysis and performance of batching arbiters. Performance Evaluation Review, 1986, 14, 35-43.	0.6	0
61	Advanced Sonar Sensing. , 0, , 485-498.		4