Mark Campbell

List of Publications by Year
in descending order

59 papers	1,427 citations	471371 17 h-index	345118 36 g-index
59 all docs	59 docs citations	59 times ranked	2193 citing authors

#	Article	IF	Citations
1	Is it Worth to Reason about Uncertainty in Occupancy Grid Maps during Path Planning?. , 2022, , .		2
2	Sequential Joint Shape and Pose Estimation of Vehicles with Application to Automatic Amodal Segmentation Labeling. , 2022, , .		0
3	Regulation of adipogenic differentiation and adipose tissue inflammation by interferon regulatory factor 3. Cell Death and Differentiation, 2021, 28, 3022-3035.	5.0	17
4	Allostatic hypermetabolic response in PGC1α/β heterozygote mouse despite mitochondrial defects. FASEB Journal, 2021, 35, e21752.	0.2	2
5	Cardiotrophinâ€1 contributes to metabolic adaptations through the regulation of lipid metabolism and to the fastingâ€induced fatty acid mobilization. FASEB Journal, 2020, 34, 15875-15887.	0.2	1
6	Path Planning Under Malicious Injections and Removals of Perceived Obstacles: A Probabilistic Programming Approach. IEEE Robotics and Automation Letters, 2020, 5, 6884-6891.	3.3	1
7	LDLS: 3-D Object Segmentation Through Label Diffusion From 2-D Images. IEEE Robotics and Automation Letters, 2019, 4, 2902-2909.	3.3	20
8	Pedestrian Motion Model Using Non-Parametric Trajectory Clustering and Discrete Transition Points. IEEE Robotics and Automation Letters, 2019, 4, 2614-2621.	3.3	13
9	Estimation and navigation methods with limited information for autonomous urban driving. Engineering Reports, 2019, 1, e12054.	0.9	4
10	Exploring the cognitive mechanisms of expertise in sport: Progress and prospects. Psychology of Sport and Exercise, 2019, 42, 8-15.	1.1	18
11	Autonomous Urban Localization and Navigation with Limited Information. , 2018, , .		2
12	Implications of eye tracking technology for applied sport psychology. Journal of Sport Psychology in Action, 2018, 9, 249-259.	0.6	17
13	Transforming Growth Factor-β3 Regulates Adipocyte Number in Subcutaneous White Adipose Tissue. Cell Reports, 2018, 25, 551-560.e5.	2.9	68
14	An integrated system for perception-driven autonomy with modular robots. Science Robotics, 2018, 3, .	9.9	59
15	P465Lâ€PPARγ mutation confers partial resistance to the hypolipidaemic action of fibrates. Diabetes, Obesity and Metabolism, 2018, 20, 2339-2350.	2.2	4
16	Humanâ€"Robot Communications of Probabilistic Beliefs via a Dirichlet Process Mixture of Statements. IEEE Transactions on Robotics, 2018, 34, 1280-1298.	7.3	5
17	Q-Link: A general planning architecture for navigation with qualitative relational information. Robotics and Autonomous Systems, 2018, 108, 51-65.	3.0	3
18	An Adaptable, Probabilistic, Next-Best View Algorithm for Reconstruction of Unknown 3-D Objects. IEEE Robotics and Automation Letters, 2017, 2, 1540-1547.	3.3	52

#	Article	IF	Citations
19	Experimental Evaluation and Formal Analysis of High‐Level Tasks with Dynamic Obstacle Anticipation on a Full‐Sized Autonomous Vehicle. Journal of Field Robotics, 2017, 34, 897-911.	3.2	10
20	Protein CoAlation: a redox-regulated protein modification by coenzyme A in mammalian cells. Biochemical Journal, 2017, 474, 2489-2508.	1.7	65
21	Precision Tracking via Joint Detailed Shape Estimation of Arbitrary Extended Objects. IEEE Transactions on Robotics, 2017, 33, 313-332.	7.3	11
22	Probabilistic qualitative mapping for robots. Robotics and Autonomous Systems, 2017, 98, 292-306.	3.0	3
23	Peroxisome Proliferator-Activated Receptor Î³ 2 Modulates Late-Pregnancy Homeostatic Metabolic Adaptations. Molecular Medicine, 2016, 22, 724-736.	1.9	18
24	Qualitative relational mapping and navigation for planetary rovers. Robotics and Autonomous Systems, 2016, 83, 73-86.	3.0	7
25	Using pupillometry to evaluate attentional effort in quiet eye: A preliminary investigation.. Sport, Exercise, and Performance Psychology, 2016, 5, 365-376.	0.6	23
26	Human-robot information sharing with structured language generation from probabilistic beliefs. , 2015, , .		2
27	Unified Terrain Mapping Model With Markov Random Fields. IEEE Transactions on Robotics, 2015, 31, 290-306.	7.3	7
28	Negative Information for Occlusion Reasoning in Dynamic Extended Multiobject Tracking. IEEE Transactions on Robotics, 2015, 31, 425-442.	7.3	23
29	Soluble LR11/SorLA represses thermogenesis in adipose tissue and correlates with BMI in humans. Nature Communications, 2015, 6, 8951.	5.8	59
30	Multi-step prediction of nonlinear Gaussian Process dynamics models with adaptive Gaussian mixtures. International Journal of Robotics Research, 2015, 34, 1211-1227.	5.8	11
31	Negative observations for multiple hypothesis tracking of dynamic extended objects. , 2014, , .		6
32	Qualitative Relational Mapping for Mobile Robots with Minimal Sensing. Journal of Aerospace Information Systems, 2014, 11, 497-511.	1.0	7
33	Maximum Likelihood Fusion of Stochastic Maps. IEEE Transactions on Signal Processing, 2014, 62, 2090-2099.	3.2	2
34	Discrete and Continuous, Probabilistic Anticipation for Autonomous Robots in Urban Environments. IEEE Transactions on Robotics, 2014, 30, 461-474.	7.3	41
35	Contingency Planning Over Probabilistic Obstacle Predictions for Autonomous Road Vehicles. IEEE Transactions on Robotics, 2013, 29, 913-929.	7.3	83
36	Bayesian Multicategorical Soft Data Fusion for Human–Robot Collaboration. IEEE Transactions on Robotics, 2013, 29, 189-206.	7.3	43

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37	Probabilistic Modeling of Anticipation in Human Controllers. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 886-900.	5.9	6
38	Unified mixture-model based terrain estimation with Markov Random Fields. , 2012, , .		10
39	On estimating simple probabilistic discriminative models with subclasses. Expert Systems With Applications, 2012, 39, 6659-6664.	4.4	4
40	Qualitative Relational Mapping for Autonomous Robotics. , 2012, , .		1
41	Efficient Unbiased Tracking of Multiple Dynamic Obstacles Under Large Viewpoint Changes. IEEE Transactions on Robotics, 2011, 27, 29-46.	7.3	35
42	Solutions to Periodic Sensor Scheduling Problems for Formation Flying Missions in Deep Space. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1351-1368.	2.6	8
43	Variational Bayesian Learning of Probabilistic Discriminative Models With Latent Softmax Variables. IEEE Transactions on Signal Processing, 2011, 59, 3143-3154.	3.2	18
44	Probabilistic multi-level maps from LIDAR data. International Journal of Robotics Research, 2011, 30, 1508-1526.	5.8	7
45	Discrete and continuous, probabilistic anticipation for autonomous robots in urban environments. Proceedings of SPIE, 2010, , .	0.8	7
46	Variational Bayesian data fusion of multi-class discrete observations with applications to cooperative human-robot estimation. , 2010, , .		8
47	Anticipation as a Method for Overcoming Time Delay in Control of Remote Systems. , 2010, , .		2
48	Particle filtering for map-aided localization in sparse GPS environments. , 2008, , .		27
49	PPAR gamma 2 Prevents Lipotoxicity by Controlling Adipose Tissue Expandability and Peripheral Lipid Metabolism. PLoS Genetics, 2007, 3, e64.	1.5	346
50	Scalable Sensing, Estimation, and Control Architecture for Large Spacecraft Formations. Journal of Guidance, Control, and Dynamics, 2007, 30, 289-300.	1.6	8
51	Towards Probabilistic Operator-Multiple Robot Decision Models. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	4
52	Probabilistic Operator-Multiple Robot Modeling Using Bayesian Network Representation. , 2007, , .		4
53	A mixture-model based algorithm for real-time terrain estimation. Journal of Field Robotics, 2006, 23, 755-775.	3.2	26
54	To Drive Is Human. Computer, 2006, 39, 52-56.	1.2	6

#	ARTICLE	IF	CITATIONS
55	Perceptual asymmetries are preserved in memory for highly familiar faces of self and friend. Brain and Cognition, 2005, 58, 334-342.	0.8	65
56	My left brain and me: a dissociation in the perception of self and others. Neuropsychologia, 2004, 42, 1156-1161.	0.7	69
57	Comparison of Multiple Agent-Based Organizations for Satellite Constellations. Journal of Spacecraft and Rockets, 2002, 39, 274-283.	1.3	18
58	Multiple Agent-Based Autonomy for Satellite Constellations. Lecture Notes in Computer Science, 2000, , 151-165.	1.0	17
59	Development of a micro pulsed plasma thruster for the Dawgstar nanosatellite. , 2000, , .		22