Mark Campbell

List of Publications by Year
in descending order

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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	PPAR gamma 2 Prevents Lipotoxicity by Controlling Adipose Tissue Expandability and Peripheral Lipid Metabolism. PLoS Genetics, 2007, 3, e64.	1.5	346
2	Contingency Planning Over Probabilistic Obstacle Predictions for Autonomous Road Vehicles. IEEE Transactions on Robotics, 2013, 29, 913-929.	7.3	83
3	My left brain and me: a dissociation in the perception of self and others. Neuropsychologia, 2004, 42, 1156-1161.	0.7	69
4	Transforming Growth Factor-Î²3 Regulates Adipocyte Number in Subcutaneous White Adipose Tissue. Cell Reports, 2018, 25, 551-560.e5.	2.9	68
5	Perceptual asymmetries are preserved in memory for highly familiar faces of self and friend. Brain and Cognition, 2005, 58, 334-342.	0.8	65
6	Protein CoAlation: a redox-regulated protein modification by coenzyme A in mammalian cells. Biochemical Journal, 2017, 474, 2489-2508.	1.7	65
7	Soluble LR11/SorLA represses thermogenesis in adipose tissue and correlates with BMI in humans. Nature Communications, 2015, 6, 8951.	5.8	59
8	An integrated system for perception-driven autonomy with modular robots. Science Robotics, 2018, 3, .	9.9	59
9	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
10	Bayesian Multicategorical Soft Data Fusion for Humanâ€“Robot Collaboration. IEEE Transactions on Robotics, 2013, 29, 189-206.	7.3	43
11	Discrete and Continuous, Probabilistic Anticipation for Autonomous Robots in Urban Environments. IEEE Transactions on Robotics, 2014, 30, 461-474.	7.3	41
12	Efficient Unbiased Tracking of Multiple Dynamic Obstacles Under Large Viewpoint Changes. IEEE Transactions on Robotics, 2011, 27, 29-46.	7.3	35
13	Particle filtering for map-aided localization in sparse GPS environments. , 2008, , .		27
14	A mixture-model based algorithm for real-time terrain estimation. Journal of Field Robotics, 2006, 23, 755-775.	3.2	26
15	Negative Information for Occlusion Reasoning in Dynamic Extended Multiobject Tracking. IEEE Transactions on Robotics, 2015, 31, 425-442.	7.3	23
16	Using pupillometry to evaluate attentional effort in quiet eye: A preliminary investigation.. Sport, Exercise, and Performance Psychology, 2016, 5, 365-376.	0.6	23
17	Development of a micro pulsed plasma thruster for the Dawgstar nanosatellite. , 2000, , .		22
18	LDLS: 3-D Object Segmentation Through Label Diffusion From 2-D Images. IEEE Robotics and Automation Letters, 2019, 4, 2902-2909.	3.3	20

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19	Comparison of Multiple Agent-Based Organizations for Satellite Constellations. Journal of Spacecraft and Rockets, 2002, 39, 274-283.	1.3	18
20	Variational Bayesian Learning of Probabilistic Discriminative Models With Latent Softmax Variables. IEEE Transactions on Signal Processing, 2011, 59, 3143-3154.	3.2	18
21	Peroxisome Proliferator-Activated Receptor Î³ 2 Modulates Late-Pregnancy Homeostatic Metabolic Adaptations. Molecular Medicine, 2016, 22, 724-736.	1.9	18
22	Exploring the cognitive mechanisms of expertise in sport: Progress and prospects. Psychology of Sport and Exercise, 2019, 42, 8-15.	1.1	18
23	Multiple Agent-Based Autonomy for Satellite Constellations. Lecture Notes in Computer Science, 2000, , 151-165.	1.0	17
24	Implications of eye tracking technology for applied sport psychology. Journal of Sport Psychology in Action, 2018, 9, 249-259.	0.6	17
25	Regulation of adipogenic differentiation and adipose tissue inflammation by interferon regulatory factor 3. Cell Death and Differentiation, 2021, 28, 3022-3035.	5.0	17
26	Pedestrian Motion Model Using Non-Parametric Trajectory Clustering and Discrete Transition Points. IEEE Robotics and Automation Letters, 2019, 4, 2614-2621.	3.3	13
27	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
28	Precision Tracking via Joint Detailed Shape Estimation of Arbitrary Extended Objects. IEEE Transactions on Robotics, 2017, 33, 313-332.	7.3	11
29	Unified mixture-model based terrain estimation with Markov Random Fields. , 2012, , .		10
30	Experimental Evaluation and Formal Analysis of Highâ€Level Tasks with Dynamic Obstacle Anticipation on a Fullâ€Sized Autonomous Vehicle. Journal of Field Robotics, 2017, 34, 897-911.	3.2	10
31	Scalable Sensing, Estimation, and Control Architecture for Large Spacecraft Formations. Journal of Guidance, Control, and Dynamics, 2007, 30, 289-300.	1.6	8
32	Variational Bayesian data fusion of multi-class discrete observations with applications to cooperative human-robot estimation. , 2010, , .		8
33	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
34	Discrete and continuous, probabilistic anticipation for autonomous robots in urban environments. Proceedings of SPIE, 2010, , .	0.8	7
35	Probabilistic multi-level maps from LIDAR data. International Journal of Robotics Research, 2011, 30, 1508-1526.	5.8	7
36	Qualitative Relational Mapping for Mobile Robots with Minimal Sensing. Journal of Aerospace Information Systems, 2014, 11, 497-511.	1.0	7

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37	Unified Terrain Mapping Model With Markov Random Fields. IEEE Transactions on Robotics, 2015, 31, 290-306.	7.3	7
38	Qualitative relational mapping and navigation for planetary rovers. Robotics and Autonomous Systems, 2016, 83, 73-86.	3.0	7
39	To Drive Is Human. Computer, 2006, 39, 52-56.	1.2	6
40	Probabilistic Modeling of Anticipation in Human Controllers. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 886-900.	5.9	6
41	Negative observations for multiple hypothesis tracking of dynamic extended objects. , 2014, , .		6
42	Humanâ€“Robot Communications of Probabilistic Beliefs via a Dirichlet Process Mixture of Statements. IEEE Transactions on Robotics, 2018, 34, 1280-1298.	7.3	5
43	Towards Probabilistic Operator-Multiple Robot Decision Models. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	4
44	Probabilistic Operator-Multiple Robot Modeling Using Bayesian Network Representation. , 2007, , .		4
45	On estimating simple probabilistic discriminative models with subclasses. Expert Systems With Applications, 2012, 39, 6659-6664.	4.4	4
46	P465Lâ€PPARÎ³ mutation confers partial resistance to the hypolipidaemic action of fibrates. Diabetes, Obesity and Metabolism, 2018, 20, 2339-2350.	2.2	4
47	Estimation and navigation methods with limited information for autonomous urban driving. Engineering Reports, 2019, 1, e12054.	0.9	4
48	Probabilistic qualitative mapping for robots. Robotics and Autonomous Systems, 2017, 98, 292-306.	3.0	3
49	Q-Link: A general planning architecture for navigation with qualitative relational information. Robotics and Autonomous Systems, 2018, 108, 51-65.	3.0	3
50	Anticipation as a Method for Overcoming Time Delay in Control of Remote Systems. , 2010, , .		2
51	Maximum Likelihood Fusion of Stochastic Maps. IEEE Transactions on Signal Processing, 2014, 62, 2090-2099.	3.2	2
52	Human-robot information sharing with structured language generation from probabilistic beliefs. , 2015, , .		2
53	Autonomous Urban Localization and Navigation with Limited Information. , 2018, , .		2
54	Allostatic hypermetabolic response in PGC1Î±/Î² heterozygote mouse despite mitochondrial defects. FASEB Journal, 2021, 35, e21752.	0.2	2

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55	Is it Worth to Reason about Uncertainty in Occupancy Grid Maps during Path Planning?. , 2022, , .		2
56	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
57	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
58	Qualitative Relational Mapping for Autonomous Robotics. , 2012, , .		1
59	Sequential Joint Shape and Pose Estimation of Vehicles with Application to Automatic Amodal Segmentation Labeling. , 2022, , .		0