

Christophe Sabourin

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

359
citations

932766

10
h-index

887659

17
g-index

50
all docs

50
docs citations

50
times ranked

247
citing authors

#	ARTICLE	IF	CITATIONS
1	A machine learning based intelligent vision system for autonomous object detection and recognition. Applied Intelligence, 2014, 40, 358-375.	3.3	83
2	Robustness of the dynamic walk of a biped robot subjected to disturbing external forces by using CMAC neural networks. Robotics and Autonomous Systems, 2005, 51, 81-99.	3.0	65
3	Control Strategy for the Robust Dynamic Walk of a Biped Robot. International Journal of Robotics Research, 2006, 25, 843-860.	5.8	31
4	Autonomous biped gait pattern based on Fuzzy-CMAC neural networks. Integrated Computer-Aided Engineering, 2007, 14, 173-186.	2.5	16
5	Hybrid Salient Object Extraction Approach with Automatic Estimation of Visual Attention Scale. , 2011, , ,		16
6	Unsupervised Band Selection Using Block-Diagonal Sparsity for Hyperspectral Image Classification. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 2062-2066.	1.4	15
7	A human-like visual-attention-based artificial vision system for wildland firefighting assistance. Applied Intelligence, 2018, 48, 2157-2179.	3.3	14
8	Multi-level cognitive machine-learning based concept for human-like "artificial" walking: Application to autonomous stroll of humanoid robots. Neurocomputing, 2011, 74, 1213-1228.	3.5	13
9	From visual patterns to semantic description: A cognitive approach using artificial curiosity as the foundation. Pattern Recognition Letters, 2013, 34, 1577-1588.	2.6	12
10	Intelligent systems for industrial robotics: application in logistic field. Industrial Robot, 2012, 39, 251-259.	1.2	11
11	Autonomous knowledge acquisition based on artificial curiosity: Application to mobile robots in an indoor environment. Robotics and Autonomous Systems, 2013, 61, 1680-1695.	3.0	10
12	Morphological Band Selection for Hyperspectral Imagery. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 1259-1263.	1.4	8
13	A Soft-Computing basis for robots'™ cognitive autonomous learning. Soft Computing, 2015, 19, 2407-2421.	2.1	7
14	Salient environmental sound detection framework for machine awareness. Neurocomputing, 2015, 152, 444-454.	3.5	6
15	A soft-computing-based approach to artificial visual attention using human eye-fixation paradigm: toward a human-like skill in robot vision. Soft Computing, 2019, 23, 2369-2389.	2.1	6
16	A REAL-TIME ROBOT VISION APPROACH COMBINING VISUAL SALIENCY AND UNSUPERVISED LEARNING. , 2011, , .		6
17	START, STOP AND TRANSITION OF VELOCITIES OF AN UNDER-ACTUATED BIPEDAL ROBOT WITHOUT REFERENCE TRAJECTORIES. International Journal of Humanoid Robotics, 2004, 01, 349-374.	0.6	4
18	Gait Pattern Based on CMAC Neural Network for Robotic Applications. Neural Processing Letters, 2013, 38, 261-279.	2.0	3

#	ARTICLE	IF	CITATIONS
19	A visualized acoustic saliency feature extraction method for environment sound signal processing. , 2013, , .		3
20	Nonholonomic mobile system control by combining EEG-based BCI with ANFIS. Bio-Medical Materials and Engineering, 2015, 26, S1125-S1133.	0.4	3
21	From Human Eye Fixation to Human-like Autonomous Artificial Vision. Lecture Notes in Computer Science, 2015, , 171-184.	1.0	3
22	A Statistical Approach to Human-Like Visual Attention and Saliency Detection for Robot Vision: Application to Wildland Firesâ€™ Detection. Communications in Computer and Information Science, 2014, , 124-135.	0.4	3
23	Experimental validation of a robust control strategy for the robot RABBIT. , 0, , .		2
24	A Neural Fuzzy Inference Based Adaptive Controller Using Learning Process for Nonholonomic Robots. Lecture Notes in Computer Science, 2011, , 65-72.	1.0	2
25	A NEURAL FUZZY INFERENCE BASED ADAPTIVE CONTROLLER FOR NONHOLONOMIC ROBOTS. International Journal of Computing, 0, , 56-65.	1.5	2
26	Learning-based Distance Evaluation in Robot Vision - A Comparison of ANFIS, MLP, SVR and Bilinear Interpolation Models. , 2015, , .		2
27	Spherical coordinates framed RGB color space dichromatic reflection model based image segmentation: Application to wildland fires' outlines extraction. , 2012, , .		1
28	Multi-scale feature based salient environmental sound recognition for machine awareness. , 2014, , .		1
29	Visual saliency based approach to object detection in computer vision systems: Real life applications. , 2015, , .		1
30	Soft-computing based fast visual objects' distance evaluation for robots' vision. , 2015, , .		1
31	Artificial Curiosity Emerging Human-Like Behavior: Toward Fully Autonomous Cognitive Robots. Studies in Computational Intelligence, 2016, , 501-516.	0.7	1
32	A dual approach for machine-awareness in indoor environment combining pseudo-3D imaging and soft-computing techniques. International Journal of Machine Learning and Cybernetics, 2017, 8, 1795-1814.	2.3	1
33	Generating Human-Like Velocity-Adapted Jumping Gait from sEMG Signals for Bionic Legâ€™s Control. Journal of Sensors, 2017, 2017, 1-18.	0.6	1
34	Learning of the Dynamic Walk of an Under-Actuated Bipedal Robot: Improvement of the Robustness by Using CMAC Neural Networks. , 2005, , 543-550.		1
35	A Cognitive Approach for Robotsâ€™ Autonomous Learning. Lecture Notes in Computer Science, 2013, , 309-320.	1.0	1
36	A NOVEL PATH PLANNING APPROACH FOR MULTI-ROBOT BASED TRANSPORTATION. International Journal of Robotics and Automation, 2013, 28, .	0.1	1

#	ARTICLE	IF	CITATIONS
37	Design of Footstep Planning Controller for Humanoid Robot in Dynamic Environment. , 2008, , .		0
38	Artificial curiosity driven autonomous knowledge discovery based on learning by interaction. , 2013, , .		0
39	Autonomous knowledge acquisition based on active learning: Application to humanoid robots in indoor environment. , 2013, , .		0
40	Heterogeneous information saliency features' fusion approach for machine's environment sounds based awareness. , 2013, , .		0
41	Dual 2-d images-based approach for objects' 3-D characterization and localization for Machine-Awareness in indoor environment. , 2015, , .		0
42	Machine-awareness in indoor environment: A pseudo-3D vision-based approach combining multi-resolution visual information. , 2017, , .		0
43	Autonomous Gait Pattern for a Dynamic Biped Walking. , 2008, , 123-139.		0
44	ANN Based Solutions: It Is Time to Defeat Real-World and Industrial Dilemmas. Lecture Notes in Computer Science, 2009, , 1328-1335.	1.0	0
45	CMAC Structure Optimization Based on Modified Q-Learning Approach and Its Applications. Studies in Computational Intelligence, 2013, , 347-359.	0.7	0
46	At Odds with Curious Cats, Curious Robots Acquire Human-Like Intelligence. Communications in Computer and Information Science, 2014, , 112-123.	0.4	0
47	Salient Foreground Object Detection based on Sparse Reconstruction for Artificial Awareness. , 2015, , .		0
48	A Pseudo-3D Vision-Based Dual Approach for Machine-Awareness in Indoor Environment Combining Multi-resolution Visual Information. Lecture Notes in Computer Science, 2017, , 644-654.	1.0	0