Alexandre Bernardino

List of Publications by Year
in descending order

230 papers	4,002 citations	304602 22 h-index	243529 44 g-index
237 all docs	237 docs citations	237 times ranked	3365 citing authors

#	Article	IF	Citations
1	Real-Time Georeferencing of Fire Front Aerial Images Using Iterative Ray-Tracing and the Bearings-Range Extended Kalman Filter. Sensors, 2022, 22, 1150.	2.1	4
2	An Efficient Cascaded Model for Ship Segmentation in Aerial Images. IEEE Access, 2022, 10, 31942-31954.	2.6	6
3	Scalable Fire and Smoke Segmentation from Aerial Images Using Convolutional Neural Networks and Quad-Tree Search. Sensors, 2022, 22, 1701.	2.1	14
4	Towards Efficient Annotations for a Human-AI Collaborative, Clinical Decision Support System: A Case Study on Physical Stroke Rehabilitation Assessment. , 2022, , .		2
5	A comparative study of optical flow methods for fluid mechanics. Experiments in Fluids, 2022, 63, 1.	1.1	11
6	Assessing the Impact of the Loss Function and Encoder Architecture for Fire Aerial Images Segmentation Using Deeplabv3+. Remote Sensing, 2022, 14, 2023.	1.8	9
7	Multispectral Facial Recognition in the Wild. Sensors, 2022, 22, 4219.	2.1	3
8	Active Data Collection of Health Data in Mobile Devices. , 2022, , .		1
9	An Unmanned Aircraft System for Maritime Operations: The Automatic Detection Subsystem. Marine Technology Society Journal, 2021, 55, 38-49.	0.3	4
10	Fire Detection using Residual Deeplabv3+ Model. , 2021, , .		9
11	A Human-AI Collaborative Approach for Clinical Decision Making on Rehabilitation Assessment. , 2021, , .		38
12	Modelling 3D saccade generation by feedforward optimal control. PLoS Computational Biology, 2021, 17, e1008975.	1.5	6
13	From Rocks to Walls: a Model-free Reinforcement Learning Approach to Dry Stacking with Irregular Rocks. , 2021, , .		3
14	Unscented Particle Filters with Refinement Steps for UAV Pose Tracking. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	3
15	One-shot action recognition in challenging therapy scenarios. , 2021, , .		17
16	Multispectral Face Recognition Using Transfer Learning with Adaptation of Domain Specific Units. Sensors, 2021, 21, 4520.	2.1	7
17	A Soft Tactile Sensor Based on Magnetics and Hybrid Flexible-Rigid Electronics. Sensors, 2021, 21, 5098.	2.1	7
18	Fire segmentation using a SqueezeSegv2. , 2021, , .		0

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19	Editorial: Robots that Learn and Reason: Towards Learning Logic Rules from Noisy Data. Frontiers in Robotics and AI, 2021, 8, 755933.	2.0	0
20	Where is my hand? Deep hand segmentation for visual self-recognition in humanoid robots. Robotics and Autonomous Systems, 2021, 145, 103857.	3.0	4
21	Break the Ice: a Survey on Socially Aware Engagement for Human–Robot First Encounters. International Journal of Social Robotics, 2021, 13, 1851-1877.	3.1	20
22	LiDAR Data Noise Models and Methodology for Sim-to-Real Domain Generalization and Adaptation in Autonomous Driving Perception. , 2021, , .		2
23	Human-Robot greeting: tracking human greeting mental states and acting accordingly. , 2021, , .		4
24	6D UAV pose estimation for ship landing guidance. , 2021, , .		1
25	Video-based tracking of fishes in the Lisbon Oceanarium. , 2021, , .		0
26	Attention on Classification for Fire Segmentation. , 2021, , .		6
27	Gait-based Person Re-identification. ACM Computing Surveys, 2020, 52, 1-34.	16.1	53
28	Beyond the Self: Using Grounded Affordances to Interpret and Describe Others' Actions. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 209-221.	2.6	3
29	Cleaning Tasks Knowledge Transfer Between Heterogeneous Robots: a Deep Learning Approach. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 98, 191-205.	2.0	5
30	Robotic Versus Human Coaches for Active Aging: An Automated Social Presence Perspective. International Journal of Social Robotics, 2020, 12, 867-882.	3.1	40
31	Placing and scheduling many depth sensors for wide coverage and efficient mapping in versatile legged robots. International Journal of Robotics Research, 2020, 39, 431-460.	5.8	6
32	Highly sensitive bio-inspired sensor for fine surface exploration and characterization. , 2020, , .		9
33	Multispectral Facial Recognition: A Review. IEEE Access, 2020, 8, 207871-207883.	2.6	13
34	Towards Personalized Interaction and Corrective Feedback of a Socially Assistive Robot for Post-Stroke Rehabilitation Therapy. , 2020, , .		13
35	piv-image-generator: An image generating software package for planar PIV and Optical Flow benchmarking. SoftwareX, 2020, 12, 100537.	1.2	13
36	Directional Statistics for 3D Model-Based UAV Tracking. IEEE Access, 2020, 8, 33884-33897.	2.6	8

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37	A Neuro-Inspired Computational Model for a Visually Guided Robotic Lamprey Using Frame and Event Based Cameras. IEEE Robotics and Automation Letters, 2020, 5, 2395-2402.	3.3	9
38	Twoâ€stage 3D modelâ€based UAV pose estimation: A comparison of methods for optimization. Journal of Field Robotics, 2020, 37, 580-605.	3.2	7
39	Roombots extended: Challenges in the next generation of self-reconfigurable modular robots and their application in adaptive and assistive furniture. Robotics and Autonomous Systems, 2020, 127, 103467.	3.0	37
40	2D Visual Servoing meets Rapidly-exploring Random Trees for collision avoidance. , 2020, , .		1
41	Fire segmentation using a DeepLabv3+ architecture. , 2020, , .		15
42	An Exploratory Study on Techniques for Quantitative Assessment of Stroke Rehabilitation Exercises. , 2020, , .		15
43	Interactive hybrid approach to combine machine and human intelligence for personalized rehabilitation assessment. , 2020, , .		14
44	Collecting Social Signals in Constructive and Destructive Events during Human-robot Collaborative Tasks. , 2020, , .		2
45	Co-Design and Evaluation of an Intelligent Decision Support System for Stroke Rehabilitation Assessment. Proceedings of the ACM on Human-Computer Interaction, 2020, 4, 1-27.	2.5	23
46	Video Based Fire Detection Using Xception and Conv-LSTM. Lecture Notes in Computer Science, 2020, , 277-285.	1.0	3
47	Video Based Live Tracking of Fishes inÂTanks. Lecture Notes in Computer Science, 2020, , 161-173.	1.0	2
48	A Remote RGB-D VSLAM Solution for Low Computational Powered Robots. , 2020, , .		5
49	Fruit quality control by surface analysis using a bio-inspired soft tactile sensor. , 2020, , .		12
50	An Optimal Planning Framework to Deploy Self-Reconfigurable Modular Robots. IEEE Robotics and Automation Letters, 2019, 4, 4278-4285.	3.3	15
51	Unmanned Aerial Vehicle Tracking Using a Particle Filter Based Approach. , 2019, , .		12
52	Online Recognition-by- Tracking with Deep Appearance and Facial Features in a Robotic Environment. , 2019, , .		0
53	Learning Temporal Features for Detection on Maritime Airborne Video Sequences Using Convolutional LSTM. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6565-6576.	2.7	17
54	Learning to assess the quality of stroke rehabilitation exercises. , 2019, , .		35

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55	A robust and efficient framework for fast cylinder detection. Robotics and Autonomous Systems, 2019, 117, 17-28.	3.0	15
56	The Impact of Domain Randomization on Object Detection: A Case Study on Parametric Shapes and Synthetic Textures. , 2019, , .		18
57	Autoland project: Fixed-wing UAV Landing on a Fast Patrol Boat using Computer Vision. , 2019, , .		5
58	GPS emulation via visual-inertial odometry for inspection drones. , 2019, , .		1
59	Robotic Interactive Physics Parameters Estimator (RIPPE). , 2019, , .		1
60	3D Model-Based UAV Pose Estimation using GPU. , 2019, , .		2
61	Exergames and their benefits in the perception of the Quality of Life and Socialization on institutionalized older adults. , 2019, , .		6
62	Custom-made exergames for older people: New inputs for multidimensional physical. , 2019, , .		1
63	A Data Set for Airborne Maritime Surveillance Environments. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 2720-2732.	5.6	50
64	Weighted Multisource Tradaboost. Lecture Notes in Computer Science, 2019, , 194-205.	1.0	3
65	Affordances in Psychology, Neuroscience, and Robotics: A Survey. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 4-25.	2.6	108
66	On the advantages of foveal mechanisms for active stereo systems in visual search tasks. Autonomous Robots, 2018, 42, 459-476.	3.2	7
67	The Power of a Hand-shake in Human-Robot Interactions. , 2018, , .		15
68	Autonomous table-cleaning from kinesthetic demonstrations using Deep Learning. , 2018, , .		6
69	Incremental adaptation of a robot body schema based on touch events. , 2018, , .		7
70	Finding safe 3D robot grasps through efficient haptic exploration with unscented Bayesian optimization and collision penalty. , 2018, , .		7
71	Object detection and localization with Artificial Foveal Visual Attention. , 2018, , .		4
72	3D Model-based estimation for UAV tracking. , 2018, , .		10

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73	Towards natural handshakes for social robots: human-aware hand grasps using tactile sensors. Paladyn, 2018, 9, 221-234.	1.9	8
74	Playdough to Roombots: Towards a Novel Tangible User Interface for Self-reconfigurable Modular Robots. , 2018, , .		1
75	An unmanned aircraft system for maritime operations. International Journal of Advanced Robotic Systems, 2018, 15, 172988141878633.	1.3	3
76	Markerless Eye-Hand Kinematic Calibration on the iCub Humanoid Robot. Frontiers in Robotics and AI, 2018, 5, 46.	2.0	0
77	A generic visual perception domain randomisation framework for Gazebo. , 2018, , .		13
78	Effects of passive and active joint compliance in quadrupedal locomotion. Advanced Robotics, 2018, 32, 809-824.	1.1	6
79	Cross-context Analysis for Long-term View-point Invariant Person Re-identification via Soft-biometrics using Depth Sensor. , 2018, , .		2
80	Improving the performance of pedestrian detectors using convolutional learning. Pattern Recognition, 2017, 61, 641-649.	5.1	28
81	Bioinspired Ciliary Force Sensor for Robotic Platforms. IEEE Robotics and Automation Letters, 2017, 2, 971-976.	3.3	37
82	A benchmark study on accuracy-controlled distance calculation between superellipsoid and superovoid contact geometries. Mechanism and Machine Theory, 2017, 115, 77-96.	2.7	17
83	A Miniaturized Force Sensor Based on Hair-Like Flexible Magnetized Cylinders Deposited Over a Giant Magnetoresistive Sensor. IEEE Transactions on Magnetics, 2017, 53, 1-5.	1.2	11
84	SNet: Co-Developing Artificial Retinas and Predictive Internal Models for Real Robots. IEEE Transactions on Cognitive and Developmental Systems, 2017, 9, 213-222.	2.6	0
85	Context-Aware Person Re-Identification in the Wild Via Fusion of Gait and Anthropometric Features. , 2017, , .		14
86	A voting method for stereo egomotion estimation. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771079.	1.3	4
87	Robust cylinder detection and pose estimation using 3D point cloud information. , 2017, , .		12
88	Adaptive Non-Maximal Suppression filtering for online exploration learning with Cost-Regularized Kernel Regression. , 2017, , .		0
89	Towards markerless visual servoing of grasping tasks for humanoid robots. , 2017, , .		14
90	Low-cost 3-axis soft tactile sensors for the human-friendly robot Vizzy. , 2017, , .		53

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91	Wedding robotics: A case study. , 2017, , .		0
92	A miniaturized force sensor based on hair-like flexible magnetized cylinders deposited over a giant magnetoresistive sensor. , 2017, , .		1
93	Learning at the ends: From hand to tool affordances in humanoid robots. , 2017, , .		8
94	Shape-based attention for identification and localization of cylindrical objects. , 2017, , .		3
95	Self-reconfigurable modular robot interface using virtual reality: Arrangement of furniture made out of roombots modules. , 2017, , .		2
96	Particle filtering based optimization applied to 3D model-based estimation for UAV pose estimation. , 2017, , .		8
97	Towards View-point Invariant Person Re-identification via Fusion of Anthropometric and Gait Features from Kinect Measurements. , 2017, , .		10
98	Automatic Object Shape Completion from 3D Point Clouds for Object Manipulation. , 2017, , .		4
99	Efficient Resource Allocation for Sparse Multiple Object Tracking. , 2017, , .		2
100	User Centered Design of an Augmented Reality Gaming Platform for Active Aging in Elderly Institutions. , 2017, , .		12
101	Eye Gaze Correlates of Motor Impairment in VR Observation of Motor Actions. Methods of Information in Medicine, 2016, 55, 79-83.	0.7	5
102	Online Body Schema Adaptation Based on Internal Mental Simulation and Multisensory Feedback. Frontiers in Robotics and AI, 2016, 3, .	2.0	16
103	Middleware Interoperability for Robotics: A ROSâ€"YARP Framework. Frontiers in Robotics and AI, 2016, 3, .	2.0	8
104	From human instructions to robot actions: Formulation of goals, affordances and probabilistic planning. , 2016, , .		22
105	A Window-Based Classifier for Automatic Video-Based Reidentification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1736-1747.	5.9	6
106	A dataset for the automatic assessment of functional senior fitness tests using kinect and physiological sensors. , 2016, , .		6
107	Oil spills detection: Challenges addressed in the scope of the SEAGULL project. , 2016, , .		11
108	Unscented Bayesian optimization for safe robot grasping. , 2016, , .		23

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109	Robust tracking of vessels in oceanographic airborne images. , 2016, , .		4
110	On the Perceptual Advantages of Visual Suppression Mechanisms for Dynamic Robot Systems. Procedia Computer Science, 2016, 88, 505-511.	1.2	3
111	Robotic Hand Pose Estimation Based on Stereo Vision and GPU-enabled Internal Graphical Simulation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2016, 83, 339-358.	2.0	18
112	Aerial Detection in Maritime Scenarios Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 373-384.	1.0	11
113	Natural user interface for lighting control: Case study on desktop lighting using modular robots. , 2016, , .		3
114	Vizzy: A Humanoid on Wheels for Assistive Robotics. Advances in Intelligent Systems and Computing, 2016, , 17-28.	0.5	15
115	Benchmarking the Grasping Capabilities of the iCub Hand With the YCB Object and Model Set. IEEE Robotics and Automation Letters, 2016, 1, 288-294.	3.3	11
116	Correcting for changes: expected perception-based control for reaching a moving target. IEEE Robotics and Automation Magazine, 2016, 23, 63-70.	2.2	3
117	Person Re-identification in Frontal Gait Sequences via Histogram of Optic Flow Energy Image. Lecture Notes in Computer Science, 2016, , 250-262.	1.0	6
118	Low-rank forward models: A path to the self-organization of visuo-motor systems. , 2015, , .		0
119	Where to place cameras on a snake robot: Focus on camera trajectory and motion blur. , 2015, , .		12
120	Unmanned aircraft systems in maritime operations: Challenges addressed in the scope of the SEAGULL project. , 2015, , .		20
121	GPU-Enabled Particle Based Optimization for Robotic-Hand Pose Estimation and Self-Calibration. , 2015, , .		4
122	A novel approach to dynamic movement imitation based on quadratic programming. , 2015, , .		4
123	Matrix Completion for Weakly-Supervised Multi-Label Image Classification. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 121-135.	9.7	144
124	Uncertainty analysis of the DLT-Lines calibration algorithm for cameras with radial distortion. Computer Vision and Image Understanding, 2015, 140, 115-126.	3.0	8
125	People and Mobile Robot Classification Through Spatio-Temporal Analysis of Optical Flow. International Journal of Pattern Recognition and Artificial Intelligence, 2015, 29, 1550021.	0.7	2
126	Shape Context for soft biometrics in person re-identification and database retrieval. Pattern Recognition Letters, 2015, 68, 297-305.	2.6	13

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127	A ground-based vision system for UAV tracking. , 2015, , .		14
128	Efficient pose estimation of rotationally symmetric objects. Neurocomputing, 2015, 150, 126-135.	3.5	10
129	On the purity of training and testing data for learning: The case of pedestrian detection. Neurocomputing, 2015, 150, 214-226.	3.5	9
130	Probabilistic Egomotion for Stereo Visual Odometry. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 265-280.	2.0	11
131	The HDA+ Data Set for Research on Fully Automated Re-identification Systems. Lecture Notes in Computer Science, 2015, , 241-255.	1.0	10
132	Image Saliency Applied to Infrared Images for Unmanned Maritime Monitoring. Lecture Notes in Computer Science, 2015, , 511-522.	1.0	6
133	Adaptive visual pursuit involving eye-head coordination and prediction of the target motion. , 2014, , .		15
134	Eye-hand online adaptation during reaching tasks in a humanoid robot. , 2014, , .		4
135	Calibration of an Outdoor Distributed Camera Network with a 3D Point Cloud. Sensors, 2014, 14, 13708-13729.	2.1	5
136	Optimal no-intersection multi-label binary localization for time series using totally unimodular linear programming. , 2014, , .		0
137	Sensori-motor networks vs neural networks for visual stimulus prediction. , 2014, , .		3
138	Probabilistic stereo egomotion transform. , 2014, , .		0
139	Learning visual affordances of objects and tools through autonomous robot exploration. , 2014, , .		16
140	An algorithm for the detection of vessels in aerial images. , 2014, , .		12
141	Efficient greedy estimation of mixture models through a binary tree search. Robotics and Autonomous Systems, 2014, 62, 1440-1452.	3.0	8
142	A multi-camera video dataset for research on high-definition surveillance. International Journal of Machine Intelligence and Sensory Signal Processing, 2014, 1, 267.	0.2	15
143	Markerless online stereo calibration for a humanoid robot. , 2014, , .		3
144	Discrete Camera Autocalibration Consistent with the Frame of the Robotic Pan-tilt Basis. Procedia Technology, 2014, 17, 186-193.	1.1	0

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145	Learning intermediate object affordances: Towards the development of a tool concept. , 2014, , .		21
146	Affordance-Based Grasp Planning for Anthropomorphic Hands from Human Demonstration. Advances in Intelligent Systems and Computing, 2014, , 687-701.	0.5	3
147	Eye Gaze Patterns after Stroke: Correlates of a VR Action Execution and Observation Task. , 2014, , .		1
148	An Improved Labelling for the INRIA Person Data Set for Pedestrian Detection. Lecture Notes in Computer Science, 2013, , 286-295.	1.0	21
149	Precision grasp synergies for dexterous robotic hands. , 2013, , .		24
150	Combining sparse and dense methods in 6D Visual Odometry. , 2013, , .		4
151	Robot anticipation of human intentions through continuous gesture recognition. , 2013, , .		15
152	Estimation of camera calibration uncertainty using LIDAR data. , 2013, , .		1
153	Multi-object detection and pose estimation in 3D point clouds: A fast grid-based Bayesian Filter. , 2013, , .		6
154	Unifying Nuclear Norm and Bilinear Factorization Approaches for Low-Rank Matrix Decomposition. , 2013, , .		114
155	Semi-supervised multi-feature learning for person re-identification. , 2013, , .		47
156	A computational approach on the co-development of artificial visual sensorimotor. Adaptive Behavior, 2013, 21, 452-464.	1.1	4
157	Fast 3D Object Recognition of Rotationally Symmetric Objects. Lecture Notes in Computer Science, 2013, , 125-132.	1.0	5
158	Topological Auto-Calibration of Central Imaging Sensors. Lecture Notes in Computer Science, 2013, , 476-483.	1.0	3
159	An Approach toward Self-organization of Artificial Visual Sensorimotor Structures. Advances in Intelligent Systems and Computing, 2013, , 273-282.	0.5	0
160	Modeling and planning high-level in-hand manipulation actions from human knowledge and active learning from demonstration. , 2012, , .		14
161	Online calibration of a humanoid robot head from relative encoders, IMU readings and visual data. , 2012, , .		7
162	Reaching and grasping kitchenware objects. , 2012, , .		4

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163	Language Bootstrapping: Learning Word Meanings From Perception–Action Association. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 660-671.	5.5	26
164	Predicting Visual Stimuli From Self-Induced Actions: An Adaptive Model of a Corollary Discharge Circuit. IEEE Transactions on Autonomous Mental Development, 2012, 4, 290-304.	2.3	5
165	On the representation of anthropomorphic robot hands: Shape versus function. , 2012, , .		2
166	Fast estimation of Gaussian mixture models for image segmentation. Machine Vision and Applications, 2012, 23, 773-789.	1.7	29
167	Auto-Calibration of Pan-Tilt Cameras Including Radial Distortion and Zoom. Lecture Notes in Computer Science, 2012, , 169-178.	1.0	5
168	Multiple Hypothesis Tracking in camera networks. , 2011, , .		12
169	A measure of good motor actions for active visual perception. , 2011, , .		8
170	Re-identification of Visual Targets in Camera Networks: A Comparison of Techniques. Lecture Notes in Computer Science, 2011, , 294-303.	1.0	4
171	Real-Time 3D Stereo Tracking and Localizing of Spherical Objects with the iCub Robotic Platform. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 63, 417-446.	2.0	8
172	Time and order estimation of paintings based on visual features and expert priors. , 2011, , .		4
173	Fast incremental method for matrix completion: An application to trajectory correction. , 2011, , .		5
174	An expected perception architecture using visual 3D reconstruction for a humanoid robot. , 2011, , .		3
175	Generation of meaningful robot expressions with active learning. , 2011, , .		3
176	Unsupervised Learning of Finite Gaussian Mixture Models (GMMs): A Greedy Approach. Lecture Notes in Electrical Engineering, 2011, , 105-120.	0.3	1
177	An expected perception architecture using visual 3D reconstruction for a humanoid robot. , 2011, , .		0
178	A review of log-polar imaging for visual perception in robotics. Robotics and Autonomous Systems, 2010, 58, 378-398.	3.0	126
179	Tracking objects with generic calibrated sensors: An algorithm based on color and 3D shape features. Robotics and Autonomous Systems, 2010, 58, 784-795.	3.0	26
180	The iCubÂhumanoid robot: An open-systems platform for research in cognitive development. Neural Networks, 2010, 23, 1125-1134.	3.3	460

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181	Gaussian mixture models for affordance learning using Bayesian Networks. , 2010, , .		8
182	Sensor-based self-calibration of the iCub's head. , 2010, , .		3
183	Self-adaptive Gaussian mixture models for real-time video segmentation and background subtraction. , 2010, , .		16
184	Unsupervised Greedy Learning of Finite Mixture Models. , 2010, , .		2
185	An Algorithm for the Least Square-Fitting of Ellipses. , 2010, , .		6
186	Image Segmentation for Robots: Fast Self-adapting Gaussian Mixture Model. Lecture Notes in Computer Science, 2010, , 105-116.	1.0	3
187	Calibrating an outdoor distributed camera network using Laser Range Finder data. , 2009, , .		4
188	ISROBOTNET: A testbed for sensor and robot network systems. , 2009, , .		20
189	Improving the SIFT descriptor with smooth derivative filters. Pattern Recognition Letters, 2009, 30, 18-26.	2.6	56
190	A Fluorescent Mutant of the NM Domain of the Yeast Prion Sup35 Provides Insight into Fibril Formation and Stability. Biochemistry, 2009, 48, 6811-6823.	1.2	11
191	Evolving predictive visual motion detectors. , 2009, , .		2
192	Affordance based word-to-meaning association. , 2009, , .		19
193	Biomimetic Eye-Neck Coordination. , 2009, , .		10
194	Smooth Foveal vision with Gaussian receptive fields. , 2009, , .		11
195	Predictive tracking across occlusions in the iCub robot. , 2009, , .		10
196	Optical Flow Based Detection in Mixed Human Robot Environments. Lecture Notes in Computer Science, 2009, , 223-232.	1.0	3
197	Waving Detection Using the Local Temporal Consistency of Flow-Based Features for Real-Time Applications. Lecture Notes in Computer Science, 2009, , 886-895.	1.0	2
198	Learning Object Affordances: From Sensory--Motor Coordination to Imitation. , 2008, 24, 15-26.		277

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199	Multimodal saliency-based bottom-up attention a framework for the humanoid robot iCub. , 2008, , .		90
200	Sample-Based 3D Tracking of Colored Objects : A Flexible Architecture. , 2008, , .		8
201	3D Tracking by Catadioptric Vision Based on Particle Filters. Lecture Notes in Computer Science, 2008, , 77-88.	1.0	4
202	POSE ESTIMATION FOR GRASPING PREPARATION FROM STEREO ELLIPSES. , 2008, , .		0
203	Modeling affordances using Bayesian networks. , 2007, , .		29
204	On the use of perspective catadioptric sensors for 3D model-based tracking with particle filters. , 2007, , .		1
205	Affordances, development and imitation. , 2007, , .		13
206	Stereoscopic Image Visualization for Telerobotics. Experiments with Active Binocular Cameras. , 2007, , 77-90.		4
207	A Comparative Study of Local Descriptors for Object Category Recognition: SIFT vs HMAX. Lecture Notes in Computer Science, 2007, , 515-522.	1.0	19
208	Detection and Classification of Highway Lanes Using Vehicle Motion Trajectories. IEEE Transactions on Intelligent Transportation Systems, 2006, 7, 188-200.	4.7	110
209	Fast IIR Isotropic 2-D Complex Gabor Filters With Boundary Initialization. IEEE Transactions on Image Processing, 2006, 15, 3338-3348.	6.0	17
210	Model Based Selection and Classification of Local Features for Recognition Using Gabor Filters. Lecture Notes in Computer Science, 2006, , 181-192.	1.0	4
211	A Real-Time Gabor Primal Sketch for Visual Attention. Lecture Notes in Computer Science, 2005, , 335-342.	1.0	18
212	Gabor Parameter Selection for Local Feature Detection. Lecture Notes in Computer Science, 2005, , 11-19.	1.0	39
213	Appearance-Based Object Detection in Space-Variant Images: A Multi-model Approach. Lecture Notes in Computer Science, 2004, , 538-546.	1.0	8
214	Appearance based landmark selection and reliability evaluation for topological navigation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 108-113.	0.4	0
215	Viewpoint Independent Detection of Vehicle Trajectories and Lane Geometry from Uncalibrated Traffic Surveillance Cameras. Lecture Notes in Computer Science, 2004, , 454-462.	1.0	18
216	Mosaic-based navigation for autonomous underwater vehicles. IEEE Journal of Oceanic Engineering, 2003, 28, 609-624.	2.1	117

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217	Visual station keeping for floating robots in unstructured environments. Robotics and Autonomous Systems, 2002, 39, 145-155.	3.0	60
218	Foveated active tracking with redundant 2D motion parameters. Robotics and Autonomous Systems, 2002, 39, 205-221.	3.0	23
219	A Binocular Stereo Algorithm for Log-Polar Foveated Systems. Lecture Notes in Computer Science, 2002, , 127-136.	1.0	25
220	Model-Based Attention Fixation using Log-Polar Images. , 2002, , 79-91.		3
221	Vision based station keeping and docking for floating vehicles. , 2001, , .		5
222	Binocular tracking: integrating perception and control. IEEE Transactions on Automation Science and Engineering, 1999, 15, 1080-1094.	2.4	58
223	Visual behaviours for binocular tracking. Robotics and Autonomous Systems, 1998, 25, 137-146.	3.0	25
224	Vergence control for robotic heads using log-polar images. , 0, , .		22
225	On the design of visual behaviors for autonomous systems. , 0, , .		0
226	Visual behaviours for binocular tracking. , 0, , .		2
227	Vision based station keeping and docking for an aerial blimp. , 0, , .		19
228	Results on underwater mosaic-based navigation. , 0, , .		8
229	Design of the robot-cub (iCub) head. , 0, , .		116
230	Vision-based Navigation, Environmental Representations and Imaging Geometries. , 0, , 347-360.		3