

Alexandre Bernardino

List of Publications by Year in descending order

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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	The iCub humanoid robot: An open-systems platform for research in cognitive development. <i>Neural Networks</i> , 2010, 23, 1125-1134.	3.3	460
2	Learning Object Affordances: From Sensory-Motor Coordination to Imitation. , 2008, 24, 15-26.		277
3	Matrix Completion for Weakly-Supervised Multi-Label Image Classification. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2015, 37, 121-135.	9.7	144
4	A review of log-polar imaging for visual perception in robotics. <i>Robotics and Autonomous Systems</i> , 2010, 58, 378-398.	3.0	126
5	Mosaic-based navigation for autonomous underwater vehicles. <i>IEEE Journal of Oceanic Engineering</i> , 2003, 28, 609-624.	2.1	117
6	Design of the robot-cub (iCub) head. , 0, , .		116
7	Unifying Nuclear Norm and Bilinear Factorization Approaches for Low-Rank Matrix Decomposition. , 2013, , .		114
8	Detection and Classification of Highway Lanes Using Vehicle Motion Trajectories. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2006, 7, 188-200.	4.7	110
9	Affordances in Psychology, Neuroscience, and Robotics: A Survey. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2018, 10, 4-25.	2.6	108
10	Multimodal saliency-based bottom-up attention a framework for the humanoid robot iCub. , 2008, , .		90
11	Visual station keeping for floating robots in unstructured environments. <i>Robotics and Autonomous Systems</i> , 2002, 39, 145-155.	3.0	60
12	Binocular tracking: integrating perception and control. <i>IEEE Transactions on Automation Science and Engineering</i> , 1999, 15, 1080-1094.	2.4	58
13	Improving the SIFT descriptor with smooth derivative filters. <i>Pattern Recognition Letters</i> , 2009, 30, 18-26.	2.6	56
14	Low-cost 3-axis soft tactile sensors for the human-friendly robot Vizzy. , 2017, , .		53
15	Gait-based Person Re-identification. <i>ACM Computing Surveys</i> , 2020, 52, 1-34.	16.1	53
16	A Data Set for Airborne Maritime Surveillance Environments. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2019, 29, 2720-2732.	5.6	50
17	Semi-supervised multi-feature learning for person re-identification. , 2013, , .		47
18	Robotic Versus Human Coaches for Active Aging: An Automated Social Presence Perspective. <i>International Journal of Social Robotics</i> , 2020, 12, 867-882.	3.1	40

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19	Gabor Parameter Selection for Local Feature Detection. Lecture Notes in Computer Science, 2005, , 11-19.	1.0	39
20	A Human-AI Collaborative Approach for Clinical Decision Making on Rehabilitation Assessment. , 2021, , .		38
21	Bioinspired Ciliary Force Sensor for Robotic Platforms. IEEE Robotics and Automation Letters, 2017, 2, 971-976.	3.3	37
22	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
23	Learning to assess the quality of stroke rehabilitation exercises. , 2019, , .		35
24	Modeling affordances using Bayesian networks. , 2007, , .		29
25	Fast estimation of Gaussian mixture models for image segmentation. Machine Vision and Applications, 2012, 23, 773-789.	1.7	29
26	Improving the performance of pedestrian detectors using convolutional learning. Pattern Recognition, 2017, 61, 641-649.	5.1	28
27	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
28	Language Bootstrapping: Learning Word Meanings From Perceptionâ€™Action Association. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 660-671.	5.5	26
29	Visual behaviours for binocular tracking. Robotics and Autonomous Systems, 1998, 25, 137-146.	3.0	25
30	A Binocular Stereo Algorithm for Log-Polar Foveated Systems. Lecture Notes in Computer Science, 2002, , 127-136.	1.0	25
31	Precision grasp synergies for dexterous robotic hands. , 2013, , .		24
32	Foveated active tracking with redundant 2D motion parameters. Robotics and Autonomous Systems, 2002, 39, 205-221.	3.0	23
33	Unscented Bayesian optimization for safe robot grasping. , 2016, , .		23
34	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
35	Vergence control for robotic heads using log-polar images. , 0, , .		22
36	From human instructions to robot actions: Formulation of goals, affordances and probabilistic planning. , 2016, , .		22

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37	An Improved Labelling for the INRIA Person Data Set for Pedestrian Detection. Lecture Notes in Computer Science, 2013, , 286-295.	1.0	21
38	Learning intermediate object affordances: Towards the development of a tool concept. , 2014, , .		21
39	ISROBOTNET: A testbed for sensor and robot network systems. , 2009, , .		20
40	Unmanned aircraft systems in maritime operations: Challenges addressed in the scope of the SEAGULL project. , 2015, , .		20
41	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
42	Vision based station keeping and docking for an aerial blimp. , 0, , .		19
43	Affordance based word-to-meaning association. , 2009, , .		19
44	A Comparative Study of Local Descriptors for Object Category Recognition: SIFT vs HMAX. Lecture Notes in Computer Science, 2007, , 515-522.	1.0	19
45	A Real-Time Gabor Primal Sketch for Visual Attention. Lecture Notes in Computer Science, 2005, , 335-342.	1.0	18
46	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
47	The Impact of Domain Randomization on Object Detection: A Case Study on Parametric Shapes and Synthetic Textures. , 2019, , .		18
48	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
49	Fast IIR Isotropic 2-D Complex Gabor Filters With Boundary Initialization. IEEE Transactions on Image Processing, 2006, 15, 3338-3348.	6.0	17
50	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
51	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
52	One-shot action recognition in challenging therapy scenarios. , 2021, , .		17
53	Self-adaptive Gaussian mixture models for real-time video segmentation and background subtraction. , 2010, , .		16
54	Learning visual affordances of objects and tools through autonomous robot exploration. , 2014, , .		16

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55	Online Body Schema Adaptation Based on Internal Mental Simulation and Multisensory Feedback. <i>Frontiers in Robotics and AI</i> , 2016, 3, .	2.0	16
56	Robot anticipation of human intentions through continuous gesture recognition. , 2013, , .		15
57	Adaptive visual pursuit involving eye-head coordination and prediction of the target motion. , 2014, , .		15
58	A multi-camera video dataset for research on high-definition surveillance. <i>International Journal of Machine Intelligence and Sensory Signal Processing</i> , 2014, 1, 267.	0.2	15
59	Vizzy: A Humanoid on Wheels for Assistive Robotics. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 17-28.	0.5	15
60	The Power of a Hand-shake in Human-Robot Interactions. , 2018, , .		15
61	An Optimal Planning Framework to Deploy Self-Reconfigurable Modular Robots. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 4278-4285.	3.3	15
62	A robust and efficient framework for fast cylinder detection. <i>Robotics and Autonomous Systems</i> , 2019, 117, 17-28.	3.0	15
63	Fire segmentation using a DeepLabv3+ architecture. , 2020, , .		15
64	An Exploratory Study on Techniques for Quantitative Assessment of Stroke Rehabilitation Exercises. , 2020, , .		15
65	Modeling and planning high-level in-hand manipulation actions from human knowledge and active learning from demonstration. , 2012, , .		14
66	A ground-based vision system for UAV tracking. , 2015, , .		14
67	Context-Aware Person Re-Identification in the Wild Via Fusion of Gait and Anthropometric Features. , 2017, , .		14
68	Towards markerless visual servoing of grasping tasks for humanoid robots. , 2017, , .		14
69	Interactive hybrid approach to combine machine and human intelligence for personalized rehabilitation assessment. , 2020, , .		14
70	Scalable Fire and Smoke Segmentation from Aerial Images Using Convolutional Neural Networks and Quad-Tree Search. <i>Sensors</i> , 2022, 22, 1701.	2.1	14
71	Affordances, development and imitation. , 2007, , .		13
72	Shape Context for soft biometrics in person re-identification and database retrieval. <i>Pattern Recognition Letters</i> , 2015, 68, 297-305.	2.6	13

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73	A generic visual perception domain randomisation framework for Gazebo. , 2018, , .		13
74	Multispectral Facial Recognition: A Review. IEEE Access, 2020, 8, 207871-207883.	2.6	13
75	Towards Personalized Interaction and Corrective Feedback of a Socially Assistive Robot for Post-Stroke Rehabilitation Therapy. , 2020, , .		13
76	piv-image-generator: An image generating software package for planar PIV and Optical Flow benchmarking. SoftwareX, 2020, 12, 100537.	1.2	13
77	Multiple Hypothesis Tracking in camera networks. , 2011, , .		12
78	An algorithm for the detection of vessels in aerial images. , 2014, , .		12
79	Where to place cameras on a snake robot: Focus on camera trajectory and motion blur. , 2015, , .		12
80	Robust cylinder detection and pose estimation using 3D point cloud information. , 2017, , .		12
81	Unmanned Aerial Vehicle Tracking Using a Particle Filter Based Approach. , 2019, , .		12
82	User Centered Design of an Augmented Reality Gaming Platform for Active Aging in Elderly Institutions. , 2017, , .		12
83	Fruit quality control by surface analysis using a bio-inspired soft tactile sensor. , 2020, , .		12
84	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
85	Smooth Foveal vision with Gaussian receptive fields. , 2009, , .		11
86	Probabilistic Egomotion for Stereo Visual Odometry. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 265-280.	2.0	11
87	Oil spills detection: Challenges addressed in the scope of the SEAGULL project. , 2016, , .		11
88	Aerial Detection in Maritime Scenarios Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 373-384.	1.0	11
89	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
90	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

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91	A comparative study of optical flow methods for fluid mechanics. Experiments in Fluids, 2022, 63, 1.	1.1	11
92	Biomimetic Eye-Neck Coordination. , 2009, , .		10
93	Predictive tracking across occlusions in the iCub robot. , 2009, , .		10
94	Efficient pose estimation of rotationally symmetric objects. Neurocomputing, 2015, 150, 126-135.	3.5	10
95	3D Model-based estimation for UAV tracking. , 2018, , .		10
96	The HDA+ Data Set for Research on Fully Automated Re-identification Systems. Lecture Notes in Computer Science, 2015, , 241-255.	1.0	10
97	Towards View-point Invariant Person Re-identification via Fusion of Anthropometric and Gait Features from Kinect Measurements. , 2017, , .		10
98	On the purity of training and testing data for learning: The case of pedestrian detection. Neurocomputing, 2015, 150, 214-226.	3.5	9
99	Highly sensitive bio-inspired sensor for fine surface exploration and characterization. , 2020, , .		9
100	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
101	Fire Detection using Residual Deeplabv3+ Model. , 2021, , .		9
102	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
103	Results on underwater mosaic-based navigation. , 0, , .		8
104	Appearance-Based Object Detection in Space-Variant Images: A Multi-model Approach. Lecture Notes in Computer Science, 2004, , 538-546.	1.0	8
105	Gaussian mixture models for affordance learning using Bayesian Networks. , 2010, , .		8
106	A measure of good motor actions for active visual perception. , 2011, , .		8
107	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
108	Efficient greedy estimation of mixture models through a binary tree search. Robotics and Autonomous Systems, 2014, 62, 1440-1452.	3.0	8

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109	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
110	Middleware Interoperability for Robotics: A ROSâ€“YARP Framework. Frontiers in Robotics and AI, 2016, 3, .	2.0	8
111	Learning at the ends: From hand to tool affordances in humanoid robots. , 2017, , .		8
112	Particle filtering based optimization applied to 3D model-based estimation for UAV pose estimation. , 2017, , .		8
113	Towards natural handshakes for social robots: human-aware hand grasps using tactile sensors. Paladyn, 2018, 9, 221-234.	1.9	8
114	Directional Statistics for 3D Model-Based UAV Tracking. IEEE Access, 2020, 8, 33884-33897.	2.6	8
115	Sample-Based 3D Tracking of Colored Objects : A Flexible Architecture. , 2008, , .		8
116	Online calibration of a humanoid robot head from relative encoders, IMU readings and visual data. , 2012, , .		7
117	On the advantages of foveal mechanisms for active stereo systems in visual search tasks. Autonomous Robots, 2018, 42, 459-476.	3.2	7
118	Incremental adaptation of a robot body schema based on touch events. , 2018, , .		7
119	Finding safe 3D robot grasps through efficient haptic exploration with unscented Bayesian optimization and collision penalty. , 2018, , .		7
120	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
121	Multispectral Face Recognition Using Transfer Learning with Adaptation of Domain Specific Units. Sensors, 2021, 21, 4520.	2.1	7
122	A Soft Tactile Sensor Based on Magnetics and Hybrid Flexible-Rigid Electronics. Sensors, 2021, 21, 5098.	2.1	7
123	An Algorithm for the Least Square-Fitting of Ellipses. , 2010, , .		6
124	Multi-object detection and pose estimation in 3D point clouds: A fast grid-based Bayesian Filter. , 2013, , .		6
125	A Window-Based Classifier for Automatic Video-Based Reidentification. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1736-1747.	5.9	6
126	A dataset for the automatic assessment of functional senior fitness tests using kinect and physiological sensors. , 2016, , .		6

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127	Autonomous table-cleaning from kinesthetic demonstrations using Deep Learning. , 2018, , .		6
128	Effects of passive and active joint compliance in quadrupedal locomotion. Advanced Robotics, 2018, 32, 809-824.	1.1	6
129	Exergames and their benefits in the perception of the Quality of Life and Socialization on institutionalized older adults. , 2019, , .		6
130	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
131	Modelling 3D saccade generation by feedforward optimal control. PLoS Computational Biology, 2021, 17, e1008975.	1.5	6
132	Image Saliency Applied to Infrared Images for Unmanned Maritime Monitoring. Lecture Notes in Computer Science, 2015, , 511-522.	1.0	6
133	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
134	An Efficient Cascaded Model for Ship Segmentation in Aerial Images. IEEE Access, 2022, 10, 31942-31954.	2.6	6
135	Attention on Classification for Fire Segmentation. , 2021, , .		6
136	Fast incremental method for matrix completion: An application to trajectory correction. , 2011, , .		5
137	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
138	Calibration of an Outdoor Distributed Camera Network with a 3D Point Cloud. Sensors, 2014, 14, 13708-13729.	2.1	5
139	Eye Gaze Correlates of Motor Impairment in VR Observation of Motor Actions. Methods of Information in Medicine, 2016, 55, 79-83.	0.7	5
140	Autoland project: Fixed-wing UAV Landing on a Fast Patrol Boat using Computer Vision. , 2019, , .		5
141	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
142	Fast 3D Object Recognition of Rotationally Symmetric Objects. Lecture Notes in Computer Science, 2013, , 125-132.	1.0	5
143	Vision based station keeping and docking for floating vehicles. , 2001, , .		5
144	Auto-Calibration of Pan-Tilt Cameras Including Radial Distortion and Zoom. Lecture Notes in Computer Science, 2012, , 169-178.	1.0	5

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145	A Remote RGB-D VSLAM Solution for Low Computational Powered Robots. , 2020, , .		5
146	Stereoscopic Image Visualization for Telerobotics. Experiments with Active Binocular Cameras. , 2007, , 77-90.		4
147	Calibrating an outdoor distributed camera network using Laser Range Finder data. , 2009, , .		4
148	Re-identification of Visual Targets in Camera Networks: A Comparison of Techniques. Lecture Notes in Computer Science, 2011, , 294-303.	1.0	4
149	Time and order estimation of paintings based on visual features and expert priors. , 2011, , .		4
150	Reaching and grasping kitchenware objects. , 2012, , .		4
151	Combining sparse and dense methods in 6D Visual Odometry. , 2013, , .		4
152	A computational approach on the co-development of artificial visual sensorimotor. Adaptive Behavior, 2013, 21, 452-464.	1.1	4
153	Eye-hand online adaptation during reaching tasks in a humanoid robot. , 2014, , .		4
154	GPU-Enabled Particle Based Optimization for Robotic-Hand Pose Estimation and Self-Calibration. , 2015, , .		4
155	A novel approach to dynamic movement imitation based on quadratic programming. , 2015, , .		4
156	Robust tracking of vessels in oceanographic airborne images. , 2016, , .		4
157	A voting method for stereo egomotion estimation. International Journal of Advanced Robotic Systems, 2017, 14, 172988141771079.	1.3	4
158	Object detection and localization with Artificial Foveal Visual Attention. , 2018, , .		4
159	An Unmanned Aircraft System for Maritime Operations: The Automatic Detection Subsystem. Marine Technology Society Journal, 2021, 55, 38-49.	0.3	4
160	Where is my hand? Deep hand segmentation for visual self-recognition in humanoid robots. Robotics and Autonomous Systems, 2021, 145, 103857.	3.0	4
161	Model Based Selection and Classification of Local Features for Recognition Using Gabor Filters. Lecture Notes in Computer Science, 2006, , 181-192.	1.0	4
162	Automatic Object Shape Completion from 3D Point Clouds for Object Manipulation. , 2017, , .		4

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163	3D Tracking by Catadioptric Vision Based on Particle Filters. Lecture Notes in Computer Science, 2008, , 77-88.	1.0	4
164	Human-Robot greeting: tracking human greeting mental states and acting accordingly. , 2021, , .		4
165	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
166	Sensor-based self-calibration of the iCub's head. , 2010, , .		3
167	An expected perception architecture using visual 3D reconstruction for a humanoid robot. , 2011, , .		3
168	Generation of meaningful robot expressions with active learning. , 2011, , .		3
169	Sensori-motor networks vs neural networks for visual stimulus prediction. , 2014, , .		3
170	Markerless online stereo calibration for a humanoid robot. , 2014, , .		3
171	On the Perceptual Advantages of Visual Suppression Mechanisms for Dynamic Robot Systems. Procedia Computer Science, 2016, 88, 505-511.	1.2	3
172	Natural user interface for lighting control: Case study on desktop lighting using modular robots. , 2016, , .		3
173	Correcting for changes: expected perception-based control for reaching a moving target. IEEE Robotics and Automation Magazine, 2016, 23, 63-70.	2.2	3
174	Shape-based attention for identification and localization of cylindrical objects. , 2017, , .		3
175	An unmanned aircraft system for maritime operations. International Journal of Advanced Robotic Systems, 2018, 15, 172988141878633.	1.3	3
176	Beyond the Self: Using Grounded Affordances to Interpret and Describe Others's™ Actions. IEEE Transactions on Cognitive and Developmental Systems, 2020, 12, 209-221.	2.6	3
177	From Rocks to Walls: a Model-free Reinforcement Learning Approach to Dry Stacking with Irregular Rocks. , 2021, , .		3
178	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
179	Model-Based Attention Fixation using Log-Polar Images. , 2002, , 79-91.		3
180	Weighted Multisource Tradaboost. Lecture Notes in Computer Science, 2019, , 194-205.	1.0	3

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181	Affordance-Based Grasp Planning for Anthropomorphic Hands from Human Demonstration. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 687-701.	0.5	3
182	Image Segmentation for Robots: Fast Self-adapting Gaussian Mixture Model. <i>Lecture Notes in Computer Science</i> , 2010, , 105-116.	1.0	3
183	Topological Auto-Calibration of Central Imaging Sensors. <i>Lecture Notes in Computer Science</i> , 2013, , 476-483.	1.0	3
184	Optical Flow Based Detection in Mixed Human Robot Environments. <i>Lecture Notes in Computer Science</i> , 2009, , 223-232.	1.0	3
185	Video Based Fire Detection Using Xception and Conv-LSTM. <i>Lecture Notes in Computer Science</i> , 2020, , 277-285.	1.0	3
186	Vision-based Navigation, Environmental Representations and Imaging Geometries. , 0, , 347-360.		3
187	Multispectral Facial Recognition in the Wild. <i>Sensors</i> , 2022, 22, 4219.	2.1	3
188	Visual behaviours for binocular tracking. , 0, , .		2
189	Evolving predictive visual motion detectors. , 2009, , .		2
190	Unsupervised Greedy Learning of Finite Mixture Models. , 2010, , .		2
191	On the representation of anthropomorphic robot hands: Shape versus function. , 2012, , .		2
192	People and Mobile Robot Classification Through Spatio-Temporal Analysis of Optical Flow. <i>International Journal of Pattern Recognition and Artificial Intelligence</i> , 2015, 29, 1550021.	0.7	2
193	Self-reconfigurable modular robot interface using virtual reality: Arrangement of furniture made out of roombots modules. , 2017, , .		2
194	3D Model-Based UAV Pose Estimation using GPU. , 2019, , .		2
195	Collecting Social Signals in Constructive and Destructive Events during Human-robot Collaborative Tasks. , 2020, , .		2
196	Efficient Resource Allocation for Sparse Multiple Object Tracking. , 2017, , .		2
197	Waving Detection Using the Local Temporal Consistency of Flow-Based Features for Real-Time Applications. <i>Lecture Notes in Computer Science</i> , 2009, , 886-895.	1.0	2
198	Cross-context Analysis for Long-term View-point Invariant Person Re-identification via Soft-biometrics using Depth Sensor. , 2018, , .		2

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199	Video Based Live Tracking of Fishes in Tanks. Lecture Notes in Computer Science, 2020, , 161-173.	1.0	2
200	LiDAR Data Noise Models and Methodology for Sim-to-Real Domain Generalization and Adaptation in Autonomous Driving Perception. , 2021, , .		2
201	Towards Efficient Annotations for a Human-AI Collaborative, Clinical Decision Support System: A Case Study on Physical Stroke Rehabilitation Assessment. , 2022, , .		2
202	On the use of perspective catadioptric sensors for 3D model-based tracking with particle filters. , 2007, , .		1
203	Estimation of camera calibration uncertainty using LIDAR data. , 2013, , .		1
204	A miniaturized force sensor based on hair-like flexible magnetized cylinders deposited over a giant magnetoresistive sensor. , 2017, , .		1
205	Playdough to Roombots: Towards a Novel Tangible User Interface for Self-reconfigurable Modular Robots. , 2018, , .		1
206	GPS emulation via visual-inertial odometry for inspection drones. , 2019, , .		1
207	Robotic Interactive Physics Parameters Estimator (RIPPE). , 2019, , .		1
208	Custom-made exergames for older people: New inputs for multidimensional physical. , 2019, , .		1
209	2D Visual Servoing meets Rapidly-exploring Random Trees for collision avoidance. , 2020, , .		1
210	Eye Gaze Patterns after Stroke: Correlates of a VR Action Execution and Observation Task. , 2014, , .		1
211	Unsupervised Learning of Finite Gaussian Mixture Models (GMMs): A Greedy Approach. Lecture Notes in Electrical Engineering, 2011, , 105-120.	0.3	1
212	6D UAV pose estimation for ship landing guidance. , 2021, , .		1
213	Active Data Collection of Health Data in Mobile Devices. , 2022, , .		1
214	On the design of visual behaviors for autonomous systems. , 0, , .		0
215	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
216	Optimal no-intersection multi-label binary localization for time series using totally unimodular linear programming. , 2014, , .		0

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217	Probabilistic stereo egomotion transform. , 2014, , .		0
218	Discrete Camera Autocalibration Consistent with the Frame of the Robotic Pan-tilt Basis. Procedia Technology, 2014, 17, 186-193.	1.1	0
219	Low-rank forward models: A path to the self-organization of visuo-motor systems. , 2015, , .		0
220	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
221	Adaptive Non-Maximal Suppression filtering for online exploration learning with Cost-Regularized Kernel Regression. , 2017, , .		0
222	Wedding robotics: A case study. , 2017, , .		0
223	Markerless Eye-Hand Kinematic Calibration on the iCub Humanoid Robot. Frontiers in Robotics and AI, 2018, 5, 46.	2.0	0
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