

# Daniel Pizarro

## List of Publications by Year in descending order

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92  
papers

1,678  
citations

331538

21  
h-index

345118

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96  
all docs

96  
docs citations

96  
times ranked

1539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer-Aided Classification of Gastrointestinal Lesions in Regular Colonoscopy. IEEE Transactions on Medical Imaging, 2016, 35, 2051-2063.	5.4	143
2	Grid Impedance Monitoring System for Distributed Power Generation Electronic Interfaces. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3112-3121.	2.4	114
3	LQG Servo Controller for the Current Control of $\$LCL\$$ Grid-Connected Voltage-Source Converters. IEEE Transactions on Industrial Electronics, 2012, 59, 4272-4284.	5.2	109
4	Feature-Based Deformable Surface Detection with Self-Occlusion Reasoning. International Journal of Computer Vision, 2012, 97, 54-70.	10.9	91
5	Towards End-to-End Acoustic Localization Using Deep Learning: From Audio Signals to Source Position Coordinates. Sensors, 2018, 18, 3418.	2.1	76
6	Shape-from-Template. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 2099-2118.	9.7	73
7	Modeling and correction of multipath interference in time of flight cameras. Image and Vision Computing, 2014, 32, 1-13.	2.7	57
8	Guidance of a mobile robot using an array of static cameras located in the environment. Autonomous Robots, 2007, 23, 305-324.	3.2	42
9	TDOA Matrices: Algebraic Properties and Their Application to Robust Denoising With Missing Data. IEEE Transactions on Signal Processing, 2016, 64, 5242-5254.	3.2	39
10	Localization of Mobile Robots Using Odometry and an External Vision Sensor. Sensors, 2010, 10, 3655-3680.	2.1	37
11	Augmented Reality Guided Laparoscopic Surgery of the Uterus. IEEE Transactions on Medical Imaging, 2021, 40, 371-380.	5.4	37
12	Augmented reality in gynecologic surgery: evaluation of potential benefits for myomectomy in an experimental uterine model. Surgical Endoscopy and Other Interventional Techniques, 2017, 31, 456-461.	1.3	35
13	Odometry and Laser Scanner Fusion Based on a Discrete Extended Kalman Filter for Robotic Platooning Guidance. Sensors, 2011, 11, 8339-8357.	2.1	31
14	Use of augmented reality in laparoscopic gynecology to visualize myomas. Fertility and Sterility, 2017, 107, 737-739.	0.5	31
15	Computer-Assisted Laparoscopic myomectomy by augmenting the uterus with pre-operative MRI data. , 2014, , .		30
16	A Stable Analytical Framework for Isometric Shape-from-Template by Surface Integration. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 833-850.	9.7	28
17	Isometric Non-Rigid Shape-from-Motion with Riemannian Geometry Solved in Linear Time. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2442-2454.	9.7	27
18	Non-Rigid Shape-from-Motion for Isometric Surfaces using Infinitesimal Planarity. , 2014, , .		26

#	ARTICLE	IF	CITATIONS
19	Modelling and correction of multipath interference in time of flight cameras. , 2012, , .		25
20	Multi-Camera Sensor System for 3D Segmentation and Localization of Multiple Mobile Robots. Sensors, 2010, 10, 3261-3279.	2.1	24
21	Source Localization with Acoustic Sensor Arrays Using Generative Model Based Fitting with Sparse Constraints. Sensors, 2012, 12, 13781-13812.	2.1	24
22	An Intelligent Architecture Based on Field Programmable Gate Arrays Designed to Detect Moving Objects by Using Principal Component Analysis. Sensors, 2010, 10, 9232-9251.	2.1	23
23	Stereo Vision Tracking of Multiple Objects in Complex Indoor Environments. Sensors, 2010, 10, 8865-8887.	2.1	22
24	Global Optimization of Object Pose and Motion from a Single Rolling Shutter Image with Automatic 2D-3D Matching. Lecture Notes in Computer Science, 2012, , 456-469.	1.0	22
25	Stable Template-Based Isometric 3D Reconstruction in All Imaging Conditions by Linear Least-Squares. , 2014, , .		21
26	Let Your Body Speak: Communicative Cue Extraction on Natural Interaction Using RGBD Data. IEEE Transactions on Multimedia, 2015, 17, 1721-1732.	5.2	21
27	Stratified Generalized Procrustes Analysis. International Journal of Computer Vision, 2013, 101, 227-253.	10.9	18
28	Inextensible Non-Rigid Shape-from-Motion by Second-Order Cone Programming. , 2016, , .		18
29	Proposal and validation of an analytical generative model of SRP-PHAT power maps in reverberant scenarios. Signal Processing, 2016, 119, 209-228.	2.1	17
30	Isometric Non-rigid Shape-from-Motion in Linear Time. , 2016, , .		16
31	Inextensible Non-Rigid Structure-from-Motion by Second-Order Cone Programming. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 2428-2441.	9.7	16
32	DPDnet: A robust people detector using deep learning with an overhead depth camera. Expert Systems With Applications, 2020, 146, 113168.	4.4	16
33	Comparing a Kalman Filter and a Particle Filter in a Multiple Objects Tracking Application. , 2007, , .		15
34	Novel GCC-PHAT model in diffuse sound field for microphone array pairwise distance based calibration. , 2015, , .		15
35	As-Rigid-as-Possible Volumetric Shape-from-Template. , 2015, , .		15
36	Light-invariant fitting of active appearance models. , 2008, , .		13

#	ARTICLE	IF	CITATIONS
37	An Indoor Positioning Approach Based on Fusion of Cameras and Infrared Sensors. Sensors, 2019, 19, 2519.	2.1	13
38	Stability and visual outcomes yielded by three intraocular trifocal lenses with same optical zone design but differing material or toricity. European Journal of Ophthalmology, 2019, 29, 417-425.	0.7	13
39	Fuzzy Decentralized Control for guidance of a convoy of robots in non-linear trajectories. , 2010, , .		12
40	Complex-space recursive least squares power system identification. , 2007, , .		11
41	Localization and Geometric Reconstruction of Mobile Robots Using a Camera Ring. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2396-2409.	2.4	11
42	A Robust Analytical Solution to Isometric Shape-from-Template with Focal Length Calibration. , 2013, , .		11
43	Shadow Resistant Direct Image Registration. , 2007, , 928-937.		11
44	"XPFCP": An Extended Particle Filter for Tracking Multiple and Dynamic Objects in Complex Environments. , 2005, , .		10
45	"XPFCP": an extended particle filter for tracking multiple and dynamic objects in complex environments. , 2005, , .		10
46	Global optimization for optimal generalized procrustes analysis. , 2011, , .		10
47	Swarps: Locally Projective Image Warps Based on 2D Schwarzian Derivatives. International Journal of Computer Vision, 2016, 119, 93-109.	10.9	10
48	Local Deformable 3D Reconstruction with Cartan's Connections. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 3011-3026.	9.7	10
49	Acoustic source localization with deep generalized cross correlations. Signal Processing, 2021, 187, 108169.	2.1	10
50	Black-box Identification for an auto-tuned current controller working with Voltage Source Converters connected to the grid through a LCL filter. , 2010, , .		9
51	Single frame correction of motion artifacts in PMD-based time of flight cameras. Image and Vision Computing, 2014, 32, 1127-1143.	2.7	9
52	A 3D Voronoi+Gapper Galaxy Cluster Finder in Redshift Space to $z \sim 0.2$ : An Algorithm Optimized for the 2dFGRS. Astrophysical Journal, 2017, 838, 109.	1.6	8
53	Isowarp and Conwarp: Warps that Exactly Comply with Weak-Perspective Projection of Deforming Objects. , 2013, , .		8
54	Three-phase power system parametric identification based on complex-space recursive least squares. , 2007, , .		7

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55	Infrared and Camera Fusion Sensor for Indoor Positioning. , 2019, , .		7
56	Texture-Generic Deep Shape-From-Template. IEEE Access, 2021, 9, 75211-75230.	2.6	7
57	Robot and obstacles localization and tracking with an external camera ring. , 2008, , .		6
58	Robust loop-shaping $H_{\infty}$ control of LCL-connected grid converters. , 2010, , .		6
59	Identification and tracking of robots in an intelligent space using static cameras and an XPFCP. Robotics and Autonomous Systems, 2013, 61, 75-85.	3.0	6
60	A System for Augmented Reality Guided Laparoscopic Tumour Resection with Quantitative Ex-vivo User Evaluation. Lecture Notes in Computer Science, 2017, , 114-126.	1.0	6
61	Equiareal Shape-from-Template. Journal of Mathematical Imaging and Vision, 2019, 61, 607-626.	0.8	5
62	Non-homogenous illumination correction of calibrated incoherent optical-fiber-bundles for image transmission purposes. , 2006, , .		4
63	Implementation of an intelligent space for localizing and controlling a robotic wheelchair. , 2012, , .		4
64	Shape-From-Template with Curves. International Journal of Computer Vision, 2020, 128, 121-165.	10.9	4
65	Towards Domain Independence in CNN-based Acoustic Localization using Deep Cross Correlations. , 2021, , .		4
66	Real-Time SPECT and 2D Ultrasound Image Registration. , 2007, 10, 219-226.		4
67	Stratified Generalized Procrustes Analysis. , 2010, , .		4
68	Towards dense people detection with deep learning and depth images. Engineering Applications of Artificial Intelligence, 2021, 106, 104484.	4.3	4
69	Clustering of 3D Spatial Points Using Maximum Likelihood Estimator over Voronoi Tessellations: Study of the Galaxy Distribution in Redshift Space. , 2006, , .		3
70	Pose and Sparse Structure of a Mobile Robot using an External Camera. , 2007, , .		3
71	State-space model identification of an LCL filter used as interface between a Voltage Source Converter and the electrical grid. , 2009, , .		3
72	GPCA vs. PCA in Recognition and 3-D Localization of Ultrasound Reflectors. Sensors, 2010, 10, 4825-4837.	2.1	3

#	ARTICLE	IF	CITATIONS
73	Use of computer vision for localization of a robotic wheelchair in an intelligent space. , 2013, , .		3
74	Face tracking with a probabilistic Viola and Jones face detector. , 2019, , .		3
75	Self-Calibrating Isometric Non-Rigid Structure-from-Motion. Lecture Notes in Computer Science, 2018, , 259-274.	1.0	3
76	Schwarps: Locally Projective Image Warps Based on 2D Schwarzian Derivatives. Lecture Notes in Computer Science, 2014, , 1-15.	1.0	3
77	Using Perspective-n-Point Algorithms for a Local Positioning System Based on LEDs and a QADA Receiver. Sensors, 2021, 21, 6537.	2.1	3
78	Label Augmentation to Improve Generalization of Deep Learning Semantic Segmentation of Laparoscopic Images. IEEE Access, 2022, 10, 37345-37359.	2.6	3
79	Shape-from-Template in Flatland. , 2015, , .		2
80	Resonance damping of LCL filters via input admittance frequency shaping. , 2016, , .		2
81	Model-Based Real-Time Non-Rigid Tracking. Sensors, 2017, 17, 2342.	2.1	2
82	The Isowarp: The Template-Based Visual Geometry of Isometric Surfaces. International Journal of Computer Vision, 2021, 129, 2194-2222.	10.9	2
83	A 3D Voronoi+Gapper Galaxy Cluster Finder in Redshift Space to $z \hat{\sim} 0.2$ . II. An Abundant Cluster Population Dominated by Late-type Galaxies Unveiled. Astrophysical Journal, 2018, 869, 145.	1.6	1
84	Mobile Robot Geometry Initialization from Single Camera. Springer Tracts in Advanced Robotics, 2008, , 93-102.	0.3	1
85	Localisation and Reconstruction of Mobile Robots in Intelligent Spaces. A single camera solution. , 2007, , .		0
86	Multi-agent 3D tracking in intelligent spaces with a single extended particle filter. , 2009, , .		0
87	3D motion segmentation and 3D localization of mobile robots using an array of static cameras and objective function minimization. , 2009, , .		0
88	Tracking multiple agents in an intelligent space with probabilistic algorithms and a camera ring. , 2010, , .		0
89	Motion segmentation and 3D positioning of multiple mobile robots using an array of static cameras in an intelligent space. , 2010, , .		0
90	Metric corrections of the affine camera. Computer Vision and Image Understanding, 2015, 135, 141-156.	3.0	0

#	ARTICLE	IF	CITATIONS
91	Real Time Cardiac SPECT and 2D Ultrasound Image Registration. IFMBE Proceedings, 2007, , 235-239.	0.2	0
92	A Bayesian Solution to Robustly Track Multiple Objects from Visual Data. Studies in Computational Intelligence, 2008, , 531-547.	0.7	0