

Rafael Cabeza

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

968
citations

623734

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477307

29
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41
all docs

41
docs citations

41
times ranked

893
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of Polynomial Mapping Functions in Video-Oculography Eye Trackers. ACM Transactions on Computer-Human Interaction, 2012, 19, 1-25.	5.7	191
2	A Novel Gaze Estimation System With One Calibration Point. IEEE Transactions on Systems, Man, and Cybernetics, 2008, 38, 1123-1138.	5.0	134
3	Hybrid method based on topography for robust detection of iris center and eye corners. ACM Transactions on Multimedia Computing, Communications and Applications, 2013, 9, 1-20.	4.3	70
4	Stereo matching using gradient similarity and locally adaptive support-weight. Pattern Recognition Letters, 2011, 32, 1643-1651.	4.2	58
5	A novel 2D/3D database with automatic face annotation for head tracking and pose estimation. Computer Vision and Image Understanding, 2016, 148, 201-210.	4.7	56
6	Taxonomic study of polynomial regressions applied to the calibration of video-oculographic systems. , 2008, , .		49
7	Gaze Estimation Interpolation Methods Based on Binocular Data. IEEE Transactions on Biomedical Engineering, 2012, 59, 2235-2243.	4.2	41
8	Hierarchical Statistical Shape Models of Multiobject Anatomical Structures: Application to Brain MRI. IEEE Transactions on Medical Imaging, 2012, 31, 713-724.	8.9	39
9	Study of discriminant analysis applied to motor imagery bipolar data. Medical and Biological Engineering and Computing, 2007, 45, 61-68.	2.8	35
10	Eye tracking: Pupil orientation geometrical modeling. Image and Vision Computing, 2006, 24, 663-679.	4.5	33
11	Models for Gaze Tracking Systems. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-16.	2.6	29
12	Analog Universal Active Device: Theory, Design and Applications. Analog Integrated Circuits and Signal Processing, 1997, 12, 153-168.	1.4	19
13	GAZE TRACKING SYSTEM MODEL BASED ON PHYSICAL PARAMETERS. International Journal of Pattern Recognition and Artificial Intelligence, 2007, 21, 855-877.	1.2	18
14	Eye tracking system model with easy calibration. , 2004, , .		17
15	Evaluation of Corneal Refraction in a Model of a Gaze Tracking System. IEEE Transactions on Biomedical Engineering, 2008, 55, 2812-2822.	4.2	17
16	Robust and accurate 2D-tracking-based 3D positioning method: Application to head pose estimation. Computer Vision and Image Understanding, 2019, 180, 13-22.	4.7	16
17	U2Eyes: A Binocular Dataset for Eye Tracking and Gaze Estimation. , 2019, , .		16
18	Fast and robust ellipse detection algorithm for head-mounted eye tracking systems. Machine Vision and Applications, 2018, 29, 845-860.	2.7	14

#	ARTICLE	IF	CITATIONS
19	A geometric approach to remote eye tracking. <i>Universal Access in the Information Society</i> , 2009, 8, 241-257.	3.0	13
20	Optimizing interoperability between video-oculographic and electromyographic systems. <i>Journal of Rehabilitation Research and Development</i> , 2011, 48, 253.	1.6	11
21	Introducing I2head database. , 2018, , .		10
22	Associations of fitness and physical activity with specific abdominal fat depots in children with overweight/obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2021, , .	2.9	9
23	Models for Gaze Tracking Systems. <i>Eurasip Journal on Image and Video Processing</i> , 2007, 2007, 023570.	2.6	9
24	Improved Strategies for HPE Employing Learning-by-Synthesis Approaches. , 2017, , .		8
25	Shape Constraint Strategies: Novel Approaches and Comparative Robustness. , 2011, , .		8
26	Accurate Pupil Center Detection in Off-the-Shelf Eye Tracking Systems Using Convolutional Neural Networks. <i>Sensors</i> , 2021, 21, 6847.	3.8	8
27	Topography-Based Detection of the Iris Centre Using Multiple-Resolution Images. , 2011, , .		5
28	Use of a CCII "â€” as a universal building block. <i>Microelectronics Journal</i> , 1997, 28, 543-550.	2.0	4
29	Supervised descent method (SDM) applied to accurate pupil detection in off-the-shelf eye tracking systems. , 2018, , .		4
30	Low Cost Gaze Estimation: Knowledge-Based Solutions. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 2328-2343.	9.8	4
31	Development of a prediction protocol for the screening of metabolic associated fatty liver disease in children with overweight or obesity. <i>Pediatric Obesity</i> , 2022, 17, e12917.	2.8	4
32	Low-Cost Eye Tracking Calibration: A Knowledge-Based Study. <i>Sensors</i> , 2021, 21, 5109.	3.8	3
33	Multiresolution Hierarchical Shape Models in 3D Subcortical Brain Structures. <i>Lecture Notes in Computer Science</i> , 2013, 16, 641-648.	1.3	3
34	Generalized Multiresolution Hierarchical Shape Models via Automatic Landmark Clusterization. <i>Lecture Notes in Computer Science</i> , 2014, 17, 1-8.	1.3	3
35	Efficient aggregation via iterative block-based adapting support-weights. , 2011, , .		2
36	Full Multiresolution Active Shape Models. <i>Journal of Mathematical Imaging and Vision</i> , 2012, 44, 463-479.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Hierarchical multi-resolution decomposition of statistical shape models. Signal, Image and Video Processing, 2015, 9, 1473-1490.	2.7	2
38	Design issues of remote eye tracking systems with large range of movement. , 2014, , .		1
39	Synthetic Gaze Data Augmentation for Improved User Calibration. Lecture Notes in Computer Science, 2021, , 377-389.	1.3	1
40	Gaze estimation problem tackled through synthetic images. , 2020, , .		1
41	Gaze Estimation. , 0, , 310-325.		1