christophe Garcia

List of Publications by Year
in descending order

81 papers	2,919 citations	361413 20 h-index	189892 50 g-index
82 all docs	82 docs citations	82 times ranked	2409 citing authors

#	ARTICLE	IF	CITATIONS
1	Face detection using quantized skin color regions merging and wavelet packet analysis. IEEE Transactions on Multimedia, 1999, 1, 264-277.	7.2	474
2	Sequential Deep Learning for Human Action Recognition. Lecture Notes in Computer Science, 2011, , 29-39.	1.3	447
3	Convolutional face finder: a neural architecture for fast and robust face detection. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1408-1423.	13.9	431
4	The Visual Object Tracking VOT2014 Challenge Results. Lecture Notes in Computer Science, 2015, , 191-217.	1.3	136
5	The 2005 PASCAL Visual Object Classes Challenge. Lecture Notes in Computer Science, 2006, , 117-176.	1.3	125
6	Wavelet packet analysis for face recognition. Image and Vision Computing, 2000, 18, 289-297.	4.5	121
7	PixelTrack: A Fast Adaptive Algorithm for Tracking Non-rigid Objects. , 2013, , .		90
8	Simplifying ConvNets for Fast Learning. Lecture Notes in Computer Science, 2012, , 58-65.	1.3	73
9	Action Classification in Soccer Videos with Long Short-Term Memory Recurrent Neural Networks. Lecture Notes in Computer Science, 2010, , 154-159.	1.3	59
10	Evaluation of video activity localizations integrating quality and quantity measurements. Computer Vision and Image Understanding, 2014, 127, 14-30.	4.7	54
11	Pose Estimation using Point and Line Correspondences. Real Time Imaging, 1999, 5, 215-230.	1.6	51
12	Spatio-Temporal Convolutional Sparse Auto-Encoder for Sequence Classification. , 2012, , .		48
13	Bayesian Level Sets for Image Segmentation. Journal of Visual Communication and Image Representation, 2002, 13, 44-64.	2.8	47
14	Contribution of recurrent connectionist language models in improving LSTM-based Arabic text recognition in videos. Pattern Recognition, 2017, 64, 245-254.	8.1	46
15	BLSTM-RNN Based 3D Gesture Classification. Lecture Notes in Computer Science, 2013, , 381-388.	1.3	45
16	Siamese multi-layer perceptrons for dimensionality reduction and face identification. Multimedia Tools and Applications, 2016, 75, 5055-5073.	3.9	36
17	Supervised Learning and Codebook Optimization for Bag-of-Words Models. Cognitive Computation, 2012, 4, 409-419.	5.2	32
18	Low-Complexity Approximate Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5981-5992.	11.3	32

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19	Deep Model Compression and Architecture Optimization for Embedded Systems: A Survey. Journal of Signal Processing Systems, 2021, 93, 863-878.	2.1	32
20	Chiral recognition properties of spiroacetal polyethers using electrospray ionisation mass spectrometry. Tetrahedron Letters, 1999, 40, 4997-5000.	1.4	29
21	ICDAR2015 competition on Text Image Super-Resolution. , 2015, , .		29
22	Class-balanced siamese neural networks. Neurocomputing, 2018, 273, 47-56.	5.9	22
23	Resolution enhancement of textual images via multiple coupled dictionaries and adaptive sparse representation selection. International Journal on Document Analysis and Recognition, 2015, 18, 87-107.	3.4	21
24	Combining Multi-scale Character Recognition and Linguistic Knowledge for Natural Scene Text OCR. , 2012, , .		20
25	Improving texture categorization with biologically-inspired filtering. Image and Vision Computing, 2014, 32, 424-436.	4.5	20
26	An Online Backpropagation Algorithm with Validation Error-Based Adaptive Learning Rate. Lecture Notes in Computer Science, 2007, , 249-258.	1.3	19
27	Visual Focus of Attention Estimation With Unsupervised Incremental Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2016, 26, 2264-2272.	8.3	17
28	Industry and Object Recognition: Applications, Applied Research and Challenges. Lecture Notes in Computer Science, 2006, , 49-64.	1.3	17
29	Inertial Gesture Recognition with BLSTM-RNN. Springer Series in Bio-/neuroinformatics, 2015, , 393-410.	0.1	17
30	Multiple Learned Dictionaries Based Clustered Sparse Coding for the Super-Resolution of Single Text Image. , 2013, , .		16
31	Comparing Robustness of Two-Dimensional PCA and Eigenfaces for Face Recognition. Lecture Notes in Computer Science, 2004, , 717-724.	1.3	15
32	A Coarse-to-Fine Word Spotting Approach for Historical Handwritten Documents Based on Graph Embedding and Graph Edit Distance. , 2014, , .		14
33	Text recognition in multimedia documents: a study of two neural-based OCRs using and avoiding character segmentation. International Journal on Document Analysis and Recognition, 2014, 17, 19-31.	3.4	14
34	Resolution enhancement of textual images: a survey of single imageâ€based methods. IET Image Processing, 2016, 10, 325-337.	2.5	14
35	Facial Image Processing. Eurasip Journal on Image and Video Processing, 2007, 2007, 070872.	2.6	12
36	Arabic text detection in videos using neural and boosting-based approaches: Application to video indexing. , 2014, , .		11

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37	Fast Pixelwise Adaptive Visual Tracking of Non-Rigid Objects. IEEE Transactions on Image Processing, 2017, 26, 2368-2380.	9.8	11
38	<title>Robust camera calibration using 2D-to-3D feature correspondences</title>. , 1997, , .		10
39	Online face detection and user authentication. , 2005, , .		10
40	The image Text Recognition Graph (iTRG). , 2009, , .		10
41	A comprehensive neural-based approach for text recognition in videos using natural language processing. , 2011, , .		10
42	A Neural Scheme for Robust Detection of Transparent Logos in TV Programs. Lecture Notes in Computer Science, 2006, , 14-23.	1.3	10
43	Novel cryptand analogs incorporating a chiral spiran moiety. Tetrahedron Letters, 1999, 40, 4993-4996.	1.4	9
44	Embedded facial image processing with Convolutional Neural Networks. , 2010, , .		9
45	A probabilistic Self-Organizing Map for facial recognition. , 2008, , .		8
46	Sparse Coding with a Coupled Dictionary Learning Approach for Textual Image Super-resolution. , 2014, , .		8
47	Handling noise in textual image resolution enhancement using online and offline learned dictionaries. International Journal on Document Analysis and Recognition, 2018, 21, 137-157.	3.4	8
48	Chiral macrocyclic polyethers incorporating a tetraoxaspiro[5.5]undecane or trioxa-azaspiro[5.5]undecane moiety. Tetrahedron: Asymmetry, 1998, 9, 4253-4265.	1.8	7
49	Virtual meeting in cyberstage. , 1998, , .		7
50	WaveRead: Automatic measurement of relative gene expression levels from microarrays using wavelet analysis. Journal of Biomedical Informatics, 2006, 39, 379-388.	4.3	7
51	Single Textual Image Super-Resolution Using Multiple Learned Dictionaries Based Sparse Coding. Lecture Notes in Computer Science, 2013, , 439-448.	1.3	7
52	An Automatic Method for Video Character Segmentation. Lecture Notes in Computer Science, 2008, , 557-566.	1.3	7
53	Optimal projection of 2-D displacements for 3-D translational motion estimation. Image and Vision Computing, 2002, 20, 793-804.	4.5	6
54	Real-Time Video Convolutional Face Finder on Embedded Platforms. Eurasip Journal on Embedded Systems, 2007, 2007, 1-8.	1.2	6

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55	Robust detection of outliers for projection-based face recognition methods. Multimedia Tools and Applications, 2008, 38, 271-291.	3.9	6
56	Text Recognition in Videos Using a Recurrent Connectionist Approach. Lecture Notes in Computer Science, 2012, , 172-179.	1.3	6
57	Real-Time Video Convolutional Face Finder on Embedded Platforms. Eurasip Journal on Embedded Systems, 2007, 2007, 021724.	1.2	6
58	Convolutive Bottleneck Network with Dropout for Dysarthric Speech Recognition. Transactions on Machine Learning and Artificial Intelligence, 2014, 2, 48-62.	0.3	6
59	Learning a bag of features based nonlinear metric for facial similarity. , 2013, , .		5
60	A Comprehensive Representation Model for Handwriting Dedicated to Word Spotting. , 2013, , .		5
61	Fully Vision-based Calibration of a Hand-Eye Robot. Autonomous Robots, 1999, 6, 223-238.	4.8	4
62	On the impact of outliers on high-dimensional data analysis methods for face recognition. , 2005, , .		4
63	Embedded Convolutional Face Finder. , 2006, , .		4
64	Unsupervised online learning of visual focus of attention. , 2013, , .		4
65	A Sparse Coding Based Approach for the Resolution Enhancement and Restoration of Printed and Handwritten Textual Images. , 2014, , .		4
66	Learning Sparse Filters in Deep Convolutional Neural Networks with a $$l_1/l_2$$ Pseudo-Norm. Lecture Notes in Computer Science, 2021, , 662-676.	1.3	4
67	Facial Image Processing. Eurasip Journal on Image and Video Processing, 2007, 2007, 1-2.	2.6	3
68	Joint denoising and magnification of noisy Low-Resolution textual images. , 2015, , .		3
69	RADON: Robust Autoencoder for Unsupervised Anomaly Detection. , 2021, , .		3
70	An Embedded Robust Facial Feature Detector. IEEE International Workshop on Machine Learning for Signal Processing, 2007, , .	0.0	2
71	Adapted Active Appearance Models. Eurasip Journal on Image and Video Processing, 2009, 2009, 1-14.	2.6	2
72	A Dictionary-Learning Sparse Representation framework for pose classification. , 2013, , .		2

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73	Facial Image Processing with Convolutional Neural Networks. Advances in Pattern Recognition, 2007, , 97-108.	0.8	2
74	Facial biometry by stimulating salient singularity masks. , 2007, , .		1
75	Modeling Gaze Behavior for a 3D ECA in a Dialogue Situation. Lecture Notes in Computer Science, 2006, , 252-255.	1.3	1
76	Kernel Similarity Based AAMs for Face Recognition. Lecture Notes in Computer Science, 2012, , 395-406.	1.3	1
77	Similarity Metric Learning. , 2021, , 103-125.		1
78	Incremental Principal Component Analysis-Based Sparse Representation for Face Pose Classification. Lecture Notes in Computer Science, 2013, , 620-631.	1.3	1
79	Polar Sine Based Siamese Neural Network for Gesture Recognition. Lecture Notes in Computer Science, 2016, , 406-414.	1.3	1
80	Exploring Interest Points and Local Descriptors for Word Spotting Application on Historical Handwriting Images. Lecture Notes in Computer Science, 2013, , 408-415.	1.3	0
81	Meet.Me@Cyberstage: towards Immersive Telepresence. Eurographics, 1998, , 90-102.	0.4	0