

Guillermo Sapiro

List of Publications by Year in descending order

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172
papers

17,983
citations

25034

57
h-index

14208

128
g-index

176
all docs

176
docs citations

176
times ranked

15899
citing authors

#	ARTICLE	IF	CITATIONS
1	Geodesic Active Contours. International Journal of Computer Vision, 1997, 22, 61-79.	15.6	4,309
2	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. NeuroImage, 2013, 80, 125-143.	4.2	851
3	Simultaneous structure and texture image inpainting. IEEE Transactions on Image Processing, 2003, 12, 882-889.	9.8	790
4	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. NeuroImage, 2013, 80, 80-104.	4.2	769
5	Molecular architecture of native HIV-1 gp120 trimers. Nature, 2008, 455, 109-113.	27.8	720
6	Fast image and video colorization using chrominance blending. IEEE Transactions on Image Processing, 2006, 15, 1120-1129.	9.8	405
7	Learning Multiscale Sparse Representations for Image and Video Restoration. Multiscale Modeling and Simulation, 2008, 7, 214-241.	1.6	396
8	Reconstruction of the orientation distribution function in single- and multiple-shell q-ball imaging within constant solid angle. Magnetic Resonance in Medicine, 2010, 64, 554-566.	3.0	329
9	The development of gyrification in childhood and adolescence. Brain and Cognition, 2010, 72, 36-45.	1.8	320
10	Coded aperture compressive temporal imaging. Optics Express, 2013, 21, 10526.	3.4	320
11	Affine invariant scale-space. International Journal of Computer Vision, 1993, 11, 25-44.	15.6	294
12	Variational Problems and Partial Differential Equations on Implicit Surfaces. Journal of Computational Physics, 2001, 174, 759-780.	3.8	288
13	Design of multishell sampling schemes with uniform coverage in diffusion MRI. Magnetic Resonance in Medicine, 2013, 69, 1534-1540.	3.0	260
14	A Theoretical and Computational Framework for Isometry Invariant Recognition of Point Cloud Data. Foundations of Computational Mathematics, 2005, 5, 313-347.	2.5	232
15	A Comprehensive Framework for Image Inpainting. IEEE Transactions on Image Processing, 2010, 19, 2634-2645.	9.8	214
16	A Gromov-Hausdorff Framework with Diffusion Geometry for Topologically-Robust Non-rigid Shape Matching. International Journal of Computer Vision, 2010, 89, 266-286.	15.6	203
17	Video Inpainting Under Constrained Camera Motion. IEEE Transactions on Image Processing, 2007, 16, 545-553.	9.8	197
18	O(N) implementation of the fast marching algorithm. Journal of Computational Physics, 2006, 212, 393-399.	3.8	188

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19	A subspace reverse-correlation technique for the study of visual neurons. <i>Vision Research</i> , 1997, 37, 2455-2464.	1.4	184
20	Structure and texture filling-in of missing image blocks in wireless transmission and compression applications. <i>IEEE Transactions on Image Processing</i> , 2003, 12, 296-303.	9.8	182
21	Structural Mechanism of Trimeric HIV-1 Envelope Glycoprotein Activation. <i>PLoS Pathogens</i> , 2012, 8, e1002797.	4.7	182
22	A Variational Framework for Exemplar-Based Image Inpainting. <i>International Journal of Computer Vision</i> , 2011, 93, 319-347.	15.6	167
23	Title is missing!. <i>International Journal of Computer Vision</i> , 2000, 36, 149-161.	15.6	161
24	Comprehensive in vivo Mapping of the Human Basal Ganglia and Thalamic Connectome in Individuals Using 7T MRI. <i>PLoS ONE</i> , 2012, 7, e29153.	2.5	159
25	Video Compressive Sensing Using Gaussian Mixture Models. <i>IEEE Transactions on Image Processing</i> , 2014, 23, 4863-4878.	9.8	158
26	Color Snakes. <i>Computer Vision and Image Understanding</i> , 1997, 68, 247-253.	4.7	149
27	A Tetraploid Intermediate Precedes Aneuploid Formation in Yeasts Exposed to Fluconazole. <i>PLoS Biology</i> , 2014, 12, e1001815.	5.6	147
28	C-HiLasso: A Collaborative Hierarchical Sparse Modeling Framework. <i>IEEE Transactions on Signal Processing</i> , 2011, 59, 4183-4198.	5.3	139
29	Interactive Image Segmentation via Adaptive Weighted Distances. <i>IEEE Transactions on Image Processing</i> , 2007, 16, 1046-1057.	9.8	133
30	Implementing continuous-scale morphology via curve evolution. <i>Pattern Recognition</i> , 1993, 26, 1363-1372.	8.1	129
31	A Hough transform global probabilistic approach to multiple-subject diffusion MRI tractography. <i>Medical Image Analysis</i> , 2011, 15, 414-425.	11.6	126
32	A Convex Model for Nonnegative Matrix Factorization and Dimensionality Reduction on Physical Space. <i>IEEE Transactions on Image Processing</i> , 2012, 21, 3239-3252.	9.8	122
33	A Shared Vision for Machine Learning in Neuroscience. <i>Journal of Neuroscience</i> , 2018, 38, 1601-1607.	3.6	121
34	Atomic Resolution Cryo-EM Structure of β -Galactosidase. <i>Structure</i> , 2018, 26, 848-856.e3.	3.3	115
35	Fourth order partial differential equations on general geometries. <i>Journal of Computational Physics</i> , 2006, 216, 216-246.	3.8	109
36	Learning Discriminative Sparse Representations for Modeling, Source Separation, and Mapping of Hyperspectral Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 4263-4281.	6.3	108

#	ARTICLE	IF	CITATIONS
37	Spatially Coherent Nonlinear Dimensionality Reduction and Segmentation of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 206-210.	3.1	102
38	Structure and accessibility of HA trimers on intact 2009 H1N1 pandemic influenza virus to stem region-specific neutralizing antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4592-4597.	7.1	99
39	Robust Large Margin Deep Neural Networks. IEEE Transactions on Signal Processing, 2017, 65, 4265-4280.	5.3	98
40	Creating and parameterizing patient-specific deep brain stimulation pathway-activation models using the hyperdirect pathway as an example. PLoS ONE, 2017, 12, e0176132.	2.5	96
41	Dictionary Learning for Noisy and Incomplete Hyperspectral Images. SIAM Journal on Imaging Sciences, 2012, 5, 33-56.	2.2	93
42	Protein Secondary Structure Determination by Constrained Single-Particle Cryo-Electron Tomography. Structure, 2012, 20, 2003-2013.	3.3	90
43	Sparse Modeling of Human Actions from Motion Imagery. International Journal of Computer Vision, 2012, 100, 1-15.	15.6	88
44	Constant Affine Velocity Predicts the 13 Power Law of Planar Motion Perception and Generation. Vision Research, 1997, 37, 347-353.	1.4	87
45	Feasibility of Using Ultra-High Field (7 T) MRI for Clinical Surgical Targeting. PLoS ONE, 2012, 7, e37328.	2.5	86
46	Fast Computation of Weighted Distance Functions and Geodesics on Implicit Hyper-Surfaces. Journal of Computational Physics, 2001, 173, 730-764.	3.8	85
47	Robust Foreground Detection In Video Using Pixel Layers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 746-751.	13.9	84
48	Explainable Artificial Intelligence for Neuroscience: Behavioral Neurostimulation. Frontiers in Neuroscience, 2019, 13, 1346.	2.8	81
49	Deep Learning with Hierarchical Convolutional Factor Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1887-1901.	13.9	80
50	Histogram Modification via Differential Equations. Journal of Differential Equations, 1997, 135, 238-268.	2.2	78
51	Computer vision analysis captures atypical attention in toddlers with autism. Autism, 2019, 23, 619-628.	4.1	77
52	Is image steganography natural?. IEEE Transactions on Image Processing, 2005, 14, 2040-2050.	9.8	75
53	Deep Neural Networks with Random Gaussian Weights: A Universal Classification Strategy?. IEEE Transactions on Signal Processing, 2016, 64, 3444-3457.	5.3	74
54	An MDL Framework for Sparse Coding and Dictionary Learning. IEEE Transactions on Signal Processing, 2012, 60, 2913-2927.	5.3	73

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55	Automatic emotion and attention analysis of young children at home: a ResearchKit autism feasibility study. <i>Npj Digital Medicine</i> , 2018, 1, 20.	10.9	72
56	Statistical Compressed Sensing of Gaussian Mixture Models. <i>IEEE Transactions on Signal Processing</i> , 2011, 59, 5842-5858.	5.3	66
57	Multiscale Fluctuation-Based Dispersion Entropy and Its Applications to Neurological Diseases. <i>IEEE Access</i> , 2019, 7, 68718-68733.	4.2	66
58	Quantum computing at the frontiers of biological sciences. <i>Nature Methods</i> , 2021, 18, 701-709.	19.0	64
59	Invariant Geometric Evolutions of Surfaces and Volumetric Smoothing. <i>SIAM Journal on Applied Mathematics</i> , 1997, 57, 176-194.	1.8	62
60	Low-Cost Compressive Sensing for Color Video and Depth. , 2014, , .		62
61	On the affine heat equation for non-convex curves. <i>Journal of the American Mathematical Society</i> , 1998, 11, 601-634.	3.9	60
62	Patient-specific anatomical model for deep brain stimulation based on 7 Tesla MRI. <i>PLoS ONE</i> , 2018, 13, e0201469.	2.5	59
63	A Geometric Method for Automatic Extraction of Sulcal Fundi. <i>IEEE Transactions on Medical Imaging</i> , 2007, 26, 530-540.	8.9	57
64	A Continuum Mechanical Approach to Geodesics in Shape Space. <i>International Journal of Computer Vision</i> , 2011, 93, 293-318.	15.6	57
65	Hierarchical topological network analysis of anatomical human brain connectivity and differences related to sex and kinship. <i>NeuroImage</i> , 2012, 59, 3784-3804.	4.2	57
66	Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osher's contributions. <i>Journal of Computational Physics</i> , 2003, 185, 309-341.	3.8	55
67	Hand-Held Video Deblurring Via Efficient Fourier Aggregation. <i>IEEE Transactions on Computational Imaging</i> , 2015, 1, 270-283.	4.4	54
68	Atypical postural control can be detected via computer vision analysis in toddlers with autism spectrum disorder. <i>Scientific Reports</i> , 2018, 8, 17008.	3.3	52
69	Solving variational problems and partial differential equations mapping into general target manifolds. <i>Journal of Computational Physics</i> , 2004, 195, 263-292.	3.8	48
70	Distance Functions and Geodesics on Submanifolds of \mathbb{R}^d and Point Clouds. <i>SIAM Journal on Applied Mathematics</i> , 2005, 65, 1227-1260.	1.8	48
71	Use of a Digital Modified Checklist for Autism in Toddlers " Revised with Follow-up to Improve Quality of Screening for Autism. <i>Journal of Pediatrics</i> , 2017, 183, 133-139.e1.	1.8	48
72	Task-Driven Adaptive Statistical Compressive Sensing of Gaussian Mixture Models. <i>IEEE Transactions on Signal Processing</i> , 2013, 61, 585-600.	5.3	47

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73	Three-dimensional arm movements at constant equi-affine speed. <i>Cortex</i> , 2009, 45, 325-339.	2.4	46
74	A system for the generation of curves on 3D brain images. <i>Human Brain Mapping</i> , 2001, 14, 1-15.	3.6	45
75	Measurement of cortical thickness from MRI by minimum line integrals on soft-tissue. <i>Human Brain Mapping</i> , 2009, 30, 3188-3199.	3.6	45
76	Computational Methods to Measure Patterns of Gaze in Toddlers With Autism Spectrum Disorder. <i>JAMA Pediatrics</i> , 2021, 175, 827-836.	6.2	44
77	Potential for Digital Behavioral Measurement Tools to Transform the Detection and Diagnosis of Autism Spectrum Disorder. <i>JAMA Pediatrics</i> , 2019, 173, 305.	6.2	44
78	Computer Vision Tools for Low-Cost and Noninvasive Measurement of Autism-Related Behaviors in Infants. <i>Autism Research & Treatment</i> , 2014, 2014, 1-12.	0.5	43
79	Computer Vision Analysis for Quantification of Autism Risk Behaviors. <i>IEEE Transactions on Affective Computing</i> , 2021, 12, 215-226.	8.3	43
80	Magnetic Resonance Field Strength Effects on Diffusion Measures and Brain Connectivity Networks. <i>Brain Connectivity</i> , 2013, 3, 72-86.	1.7	42
81	Tradeoffs Between Convergence Speed and Reconstruction Accuracy in Inverse Problems. <i>IEEE Transactions on Signal Processing</i> , 2018, 66, 1676-1690.	5.3	42
82	New Possibilities with Sobolev Active Contours. <i>International Journal of Computer Vision</i> , 2009, 84, 113-129.	15.6	41
83	Digital Behavioral Phenotyping Detects Atypical Pattern of Facial Expression in Toddlers with Autism. <i>Autism Research</i> , 2021, 14, 488-499.	3.8	41
84	Multiscale Representation and Segmentation of Hyperspectral Imagery Using Geometric Partial Differential Equations and Algebraic Multigrid Methods. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 2418-2434.	6.3	40
85	Shapes of Antibody Binding Sites: Qualitative and Quantitative Analyses Based on a Geomorphic Classification Scheme. <i>Journal of Organic Chemistry</i> , 2006, 71, 5082-5092.	3.2	39
86	Geometric computation of human gyrification indexes from magnetic resonance images. <i>Human Brain Mapping</i> , 2013, 34, 1230-1244.	3.6	39
87	An energy-based three-dimensional segmentation approach for the quantitative interpretation of electron tomograms. <i>IEEE Transactions on Image Processing</i> , 2005, 14, 1314-1323.	9.8	38
88	Translated Poisson Mixture Model for Stratification Learning. <i>International Journal of Computer Vision</i> , 2008, 80, 358-374.	15.6	38
89	Affine Invariant Detection: Edge Maps, Anisotropic Diffusion, and Active Contours. <i>Acta Applicandae Mathematicae</i> , 1999, 59, 45-77.	1.0	37
90	Fundamental Limits in Multi-Image Alignment. <i>IEEE Transactions on Signal Processing</i> , 2016, 64, 5707-5722.	5.3	37

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91	Vector Median Filters, Inf-Sup Operations, and Coupled PDE's: Theoretical Connections. Journal of Mathematical Imaging and Vision, 2000, 12, 109-119.	1.3	36
92	Adaptive temporal compressive sensing for video. , 2013, , .		36
93	Automatic localization of the subthalamic nucleus on patient-specific clinical MRI by incorporating 7 T MRI and machine learning: Application in deep brain stimulation. Human Brain Mapping, 2019, 40, 679-698.	3.6	36
94	Visualization of high dynamic range images. IEEE Transactions on Image Processing, 2003, 12, 639-647.	9.8	34
95	Statistical Analysis of RNA Backbone. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 33-46.	3.0	33
96	Removing Camera Shake via Weighted Fourier Burst Accumulation. IEEE Transactions on Image Processing, 2015, 24, 3293-3307.	9.8	33
97	Microelectrode Recordings Validate the Clinical Visualization of Subthalamic-Nucleus Based on 7T Magnetic Resonance Imaging and Machine Learning for Deep Brain Stimulation Surgery. Neurosurgery, 2019, 84, 749-757.	1.1	33
98	Automatic clustering and population analysis of white matter tracts using maximum density paths. NeuroImage, 2014, 97, 284-295.	4.2	31
99	Quantifying Risk for Anxiety Disorders in Preschool Children: A Machine Learning Approach. PLoS ONE, 2016, 11, e0165524.	2.5	30
100	Simultaneous Object Classification and Segmentation With High-Order Multiple Shape Models. IEEE Transactions on Image Processing, 2010, 19, 625-635.	9.8	29
101	Affine-Invariant Distances, Envelopes and Symmetry Sets. Geometriae Dedicata, 1998, 71, 237-261.	0.3	28
102	Compressed Nonnegative Matrix Factorization Is Fast and Accurate. IEEE Transactions on Signal Processing, 2016, 64, 2269-2283.	5.3	28
103	Toward Multiple Catheters Detection in Fluoroscopic Image Guided Interventions. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 770-781.	3.2	27
104	Universal Regularizers for Robust Sparse Coding and Modeling. IEEE Transactions on Image Processing, 2012, 21, 3850-3864.	9.8	27
105	Computer vision and behavioral phenotyping: an autism case study. Current Opinion in Biomedical Engineering, 2019, 9, 14-20.	3.4	26
106	Morse Description and Geometric Encoding of Digital Elevation Maps. IEEE Transactions on Image Processing, 2004, 13, 1245-1262.	9.8	25
107	Contrast Enhancement via Image Evolution Flows. Graphical Models, 1997, 59, 407-416.	1.3	24
108	Sparse Representations for Range Data Restoration. IEEE Transactions on Image Processing, 2012, 21, 2909-2915.	9.8	23

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109	Accurate detection of cerebellar smooth pursuit eye movement abnormalities via mobile phone video and machine learning. <i>Scientific Reports</i> , 2020, 10, 18641.	3.3	23
110	Crease Enhancement Diffusion. <i>Computer Vision and Image Understanding</i> , 2001, 84, 241-248.	4.7	22
111	Generalized Newton-Type Methods for Energy Formulations in Image Processing. <i>SIAM Journal on Imaging Sciences</i> , 2009, 2, 508-531.	2.2	19
112	A 3D wavelet fusion approach for the reconstruction of isotropic-resolution MR images from orthogonal anisotropic-resolution scans. <i>Magnetic Resonance in Medicine</i> , 2012, 67, 1167-1172.	3.0	19
113	A scalable computational approach to assessing response to name in toddlers with autism. <i>Journal of Child Psychology and Psychiatry and Allied Disciplines</i> , 2021, 62, 1120-1131.	5.2	19
114	Segmentation guided registration of wide field-of-view retinal optical coherence tomography volumes. <i>Biomedical Optics Express</i> , 2016, 7, 4827.	2.9	17
115	A Scalable Off-the-Shelf Framework for Measuring Patterns of Attention in Young Children and Its Application in Autism Spectrum Disorder. <i>IEEE Transactions on Affective Computing</i> , 2021, 12, 722-731.	8.3	17
116	On spectral properties for graph matching and graph isomorphism problems. <i>Information and Inference</i> , 2015, 4, 63-76.	1.6	16
117	Deep learning based fully automatic segmentation of the globus pallidus interna and externa using ultra-high 7 Tesla MRI. <i>Human Brain Mapping</i> , 2021, 42, 2862-2879.	3.6	16
118	Estimation of the CSA-CODF using Bayesian compressed sensing of multi-shell HARDI. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1471-1485.	3.0	15
119	Multifaceted Changes in Synaptic Composition and Astrocytic Involvement in a Mouse Model of Fragile X Syndrome. <i>Scientific Reports</i> , 2019, 9, 13855.	3.3	15
120	Non-Contact Photoplethysmogram and Instantaneous Heart Rate Estimation from Infrared Face Video. , 2019, , .		14
121	Probabilistic fluorescence-based synapse detection. <i>PLoS Computational Biology</i> , 2017, 13, e1005493.	3.2	14
122	Area-Based Medial Axis of Planar Curves. <i>International Journal of Computer Vision</i> , 2004, 60, 203-224.	15.6	12
123	Gaussian mixture model for video compressive sensing. , 2013, , .		12
124	A Six-Minute Measure of Vocalizations in Toddlers with Autism Spectrum Disorder. <i>Autism Research</i> , 2020, 13, 1373-1382.	3.8	11
125	Relative Average Look Duration and its Association with Neurophysiological Activity in Young Children with Autism Spectrum Disorder. <i>Scientific Reports</i> , 2020, 10, 1912.	3.3	11
126	A Biclustering Framework for Consensus Problems. <i>SIAM Journal on Imaging Sciences</i> , 2014, 7, 2488-2525.	2.2	10

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127	Measuring robustness of brain networks in autism spectrum disorder with Ricci curvature. Scientific Reports, 2020, 10, 10819.	3.3	10
128	A scalable app for measuring autism risk behaviors in young children: A technical validity and feasibility study. , 2015, , .		9
129	Statistical Characterization of Protein Ensembles. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 42-55.	3.0	8
130	Data Representation Using the Weyl Transform. IEEE Transactions on Signal Processing, 2016, 64, 1844-1853.	5.3	8
131	A Computational Synaptic Antibody Characterization Tool for Array Tomography. Frontiers in Neuroanatomy, 2018, 12, 51.	1.7	8
132	Exploring Complexity of Facial Dynamics in Autism Spectrum Disorder. IEEE Transactions on Affective Computing, 2021, , 1-1.	8.3	8
133	Cross-modality pose-invariant facial expression. , 2015, , .		7
134	A short-graph fourier transform via personalized pagerank vectors. , 2016, , .		7
135	A Subdivision Scheme for Continuous-Scale B-Splines and Affine-Invariant Progressive Smoothing. Journal of Mathematical Imaging and Vision, 1997, 7, 23-40.	1.3	6
136	Estimation of white matter fiber parameters from compressed multiresolution diffusion MRI using sparse Bayesian learning. NeuroImage, 2018, 167, 488-503.	4.2	6
137	A Survey on Statistical, Information, and Estimationâ€™Theoretic Views on Privacy. IEEE BITS the Information Theory Magazine, 2021, 1, 45-56.	1.6	6
138	Motivational valence alters memory formation without altering exploration of a real-life spatial environment. PLoS ONE, 2018, 13, e0193506.	2.5	6
139	The ubiquitous ellipse. Acta Applicandae Mathematicae, 1995, 38, 149-161.	1.0	5
140	Morse Description and Morphological Encoding of Continuous Data. Multiscale Modeling and Simulation, 2004, 2, 179-209.	1.6	5
141	The Learned Inexact Project Gradient Descent Algorithm. , 2018, , .		5
142	Parent strategies for expanding food variety: Reflections of 19,239 adults with symptoms of Avoidant/Restrictive Food Intake Disorder. International Journal of Eating Disorders, 2022, 55, 108-119.	4.0	5
143	Morphological Image Coding Based on a Geometric Sampling Theorem and a Modified Skeleton Representation. Journal of Visual Communication and Image Representation, 1994, 5, 29-40.	2.8	4
144	Fast L1 smoothing splines with an application to Kinect depth data. , 2013, , .		4

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145	Sparse Bayesian Inference of White Matter Fiber Orientations from Compressed Multi-resolution Diffusion MRI. Lecture Notes in Computer Science, 2015, 9349, 117-124.	1.3	4
146	Synthesis-Based Low-Cost Gaze Analysis. Communications in Computer and Information Science, 2016, , 95-100.	0.5	4
147	Detection of Oculomotor Dysmetria From Mobile Phone Video of the Horizontal Saccades Task Using Signal Processing and Machine Learning Approaches. IEEE Access, 2022, 10, 34022-34031.	4.2	4
148	Cancer: What's luck got to do with it?. Significance, 2015, 12, 40-42.	0.4	3
149	Impact of a digital Modified Checklist for Autism in Toddlersâ€“Revised on likelihood and age of autism diagnosis and referral for developmental evaluation. Autism, 2020, 24, 1629-1638.	4.1	3
150	Rethinking Shape From Shading for Spoofing Detection. IEEE Transactions on Image Processing, 2021, 30, 1086-1099.	9.8	3
151	On the computation of the affine skeletons of planar curves and the detection of skew symmetry. Pattern Recognition, 2001, 34, 943-952.	8.1	2
152	Esophagus Silhouette Extraction and Reconstruction From Fluoroscopic Views for Cardiac Ablation Procedure Guidance. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 703-708.	3.2	2
153	Questionnaire simplification for fast risk analysis of children's mental health. , 2014, , .		2
154	Active learning of cortical connectivity from two-photon imaging data. PLoS ONE, 2018, 13, e0196527.	2.5	2
155	Stop Memorizing: A Data-Dependent Regularization Framework for Intrinsic Pattern Learning. SIAM Journal on Mathematics of Data Science, 2019, 1, 476-496.	1.8	2
156	Differential 3D Facial Recognition: Adding 3D to Your State-of-the-Art 2D Method. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2020, 42, 1582-1593.	13.9	2
157	Low-cost Gaze and Pulse Analysis using RealSense. , 2015, , .		2
158	Minimax Pareto Fairness: A Multi Objective Perspective. Proceedings of Machine Learning Research, 2020, 119, 6755-6764.	0.3	2
159	Computational and image processing methods for analysis and automation of anatomical alignment and joint spacing in reconstructive surgery. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 541-551.	2.8	2
160	Molecular Structures of Native HA Trimers on 2009 H1N1 Pandemic Influenza Virus Complexed with Neutralizing Antibodies. Biophysical Journal, 2013, 104, 414a.	0.5	1
161	Intersecting 2D lines: A simple method for detecting vanishing points. , 2014, , .		1
162	Multi-temporal foreground detection in videos. , 2015, , .		1

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163	Alignment with intra-class structure can improve classification. , 2015, , .		1
164	Generalization error of deep neural networks: Role of classification margin and data structure. , 2017, , .		1
165	Comparing shapes, understanding evolution. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18189-18190.	7.1	0
166	178â€fUtility of 7T Imaging for Deep Brain Stimulation Surgery. Neurosurgery, 2012, 71, E569-E570.	1.1	0
167	Importance Sampling Spherical Harmonics to Improve Probabilistic Tractography. , 2013, , .		0
168	All for one, one for all: Consensus community detection in networks. , 2014, , .		0
169	Accelerating Discovery in 3D Microanalysis: Leveraging Open Source Software and Deskside High Performance Computing. Microscopy and Microanalysis, 2014, 20, 774-775.	0.4	0
170	A Sparse Bayesian Learning Algorithm for White Matter Parameter Estimation from Compressed Multi-shell Diffusion MRI. Lecture Notes in Computer Science, 2017, 10433, 602-610.	1.3	0
171	Corrections to "Deep Neural Networks With Random Gaussian Weights: A Universal Classification Strategy?" [Jul 1, 2016 3444-3457]. IEEE Transactions on Signal Processing, 2020, 68, 529-531.	5.3	0
172	Attention-Based Network for Weak Labels in Neonatal Seizure Detection. Proceedings of Machine Learning Research, 2020, 126, 479-507.	0.3	0