Guillermo Sapiro

List of Publications by Year
in descending order

172 papers	17,983 citations	28736 57 h-index	16186 128 g-index
176 all docs	176 docs citations	176 times ranked	18134 citing authors

#	Article	IF	Citations
1	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.	2.1	5
2	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.	1.7	2
3	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.	2.6	4
4	A Scalable Off-the-Shelf Framework for Measuring Patterns of Attention in Young Children and Its Application in Autism Spectrum Disorder. IEEE Transactions on Affective Computing, 2021, 12, 722-731.	5.7	17
5	Computer Vision Analysis for Quantification of Autism Risk Behaviors. IEEE Transactions on Affective Computing, 2021, 12, 215-226.	5.7	43
6	Digital Behavioral Phenotyping Detects Atypical Pattern of Facial Expression in Toddlers with Autism. Autism Research, 2021, 14, 488-499.	2.1	41
7	Rethinking Shape From Shading for Spoofing Detection. IEEE Transactions on Image Processing, 2021, 30, 1086-1099.	6.0	3
8	A Survey on Statistical, Information, and Estimationâ€"Theoretic Views on Privacy. IEEE BITS the Information Theory Magazine, 2021, 1, 45-56.	1.0	6
9	Quantum computing at the frontiers of biological sciences. Nature Methods, 2021, 18, 701-709.	9.0	64
10	Exploring Complexity of Facial Dynamics in Autism Spectrum Disorder. IEEE Transactions on Affective Computing, 2021, , 1-1.	5.7	8
11	A scalable computational approach to assessing response to name in toddlers with autism. Journal of Child Psychology and Psychiatry and Allied Disciplines, 2021, 62, 1120-1131.	3.1	19
12	Deepâ€‘learning based fully automatic segmentation of the globus pallidus interna and externa using ultraâ€‘high 7 Tesla<scp>MRI</scp>. Human Brain Mapping, 2021, 42, 2862-2879.	1.9	16
13	Computational Methods to Measure Patterns of Gaze in Toddlers With Autism Spectrum Disorder. JAMA Pediatrics, 2021, 175, 827-836.	3.3	44
14	Measuring robustness of brain networks in autism spectrum disorder with Ricci curvature. Scientific Reports, 2020, 10, 10819.	1.6	10
15	Corrections to â€œDeep Neural Networks With Random Gaussian Weights: A Universal Classification Strategy?â€•[Jul 1, 2016 3444-3457]. IEEE Transactions on Signal Processing, 2020, 68, 529-531.	3.2	0
16	Accurate detection of cerebellar smooth pursuit eye movement abnormalities via mobile phone video and machine learning. Scientific Reports, 2020, 10, 18641.	1.6	23
17	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.	2.4	3
18	A Sixâ€‘Minute Measure of Vocalizations in Toddlers with Autism Spectrum Disorder. Autism Research, 2020, 13, 1373-1382.	2.1	11

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19	Relative Average Look Duration and its Association with Neurophysiological Activity in Young Children with Autism Spectrum Disorder. Scientific Reports, 2020, 10, 1912.	1.6	11
20	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.	9.7	2
21	Attention-Based Network for Weak Labels in Neonatal Seizure Detection. Proceedings of Machine Learning Research, 2020, 126, 479-507.	0.3	0
22	Minimax Pareto Fairness: A Multi Objective Perspective. Proceedings of Machine Learning Research, 2020, 119, 6755-6764.	0.3	2
23	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.	0.6	33
24	Non-Contact Photoplethysmogram and Instantaneous Heart Rate Estimation from Infrared Face Video. , 2019, , .		14
25	Multifaceted Changes in Synaptic Composition and Astrocytic Involvement in a Mouse Model of Fragile X Syndrome. Scientific Reports, 2019, 9, 13855.	1.6	15
26	Multiscale Fluctuation-Based Dispersion Entropy and Its Applications to Neurological Diseases. IEEE Access, 2019, 7, 68718-68733.	2.6	66
27	Stop Memorizing: A Data-Dependent Regularization Framework for Intrinsic Pattern Learning. SIAM Journal on Mathematics of Data Science, 2019, 1, 476-496.	1.0	2
28	Explainable Artificial Intelligence for Neuroscience: Behavioral Neurostimulation. Frontiers in Neuroscience, 2019, 13, 1346.	1.4	81
29	Computer vision and behavioral phenotyping: an autism case study. Current Opinion in Biomedical Engineering, 2019, 9, 14-20.	1.8	26
30	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.	1.9	36
31	Computer vision analysis captures atypical attention in toddlers with autism. Autism, 2019, 23, 619-628.	2.4	77
32	Potential for Digital Behavioral Measurement Tools to Transform the Detection and Diagnosis of Autism Spectrum Disorder. JAMA Pediatrics, 2019, 173, 305.	3.3	44
33	Tradeoffs Between Convergence Speed and Reconstruction Accuracy in Inverse Problems. IEEE Transactions on Signal Processing, 2018, 66, 1676-1690.	3.2	42
34	A Shared Vision for Machine Learning in Neuroscience. Journal of Neuroscience, 2018, 38, 1601-1607.	1.7	121
35	Estimation of white matter fiber parameters from compressed multiresolution diffusion MRI using sparse Bayesian learning. NeuroImage, 2018, 167, 488-503.	2.1	6
36	Atypical postural control can be detected via computer vision analysis in toddlers with autism spectrum disorder. Scientific Reports, 2018, 8, 17008.	1.6	52

#	Article	IF	Citations
37	The Learned Inexact Project Gradient Descent Algorithm. , 2018, , .		5
38	Active learning of cortical connectivity from two-photon imaging data. PLoS ONE, 2018, 13, e0196527.	1.1	2
39	Automatic emotion and attention analysis of young children at home: a ResearchKit autism feasibility study. Npj Digital Medicine, 2018, 1, 20.	5.7	72
40	Atomic Resolution Cryo-EM Structure of Î²-Galactosidase. Structure, 2018, 26, 848-856.e3.	1.6	115
41	Patient-specific anatomical model for deep brain stimulation based on 7 Tesla MRI. PLoS ONE, 2018, 13, e0201469.	1.1	59
42	A Computational Synaptic Antibody Characterization Tool for Array Tomography. Frontiers in Neuroanatomy, 2018, 12, 51.	0.9	8
43	Motivational valence alters memory formation without altering exploration of a real-life spatial environment. PLoS ONE, 2018, 13, e0193506.	1.1	6
44	Use of a Digital Modified Checklist for Autism in Toddlers â€" Revised with Follow-up to Improve Quality of Screening for Autism. Journal of Pediatrics, 2017, 183, 133-139.e1.	0.9	48
45	Robust Large Margin Deep Neural Networks. IEEE Transactions on Signal Processing, 2017, 65, 4265-4280.	3.2	98
46	A Sparse Bayesian Learning Algorithm forÂWhite Matter Parameter Estimation fromÂCompressed Multi-shell Diffusion MRI. Lecture Notes in Computer Science, 2017, 10433, 602-610.	1.0	0
47	Generalization error of deep neural networks: Role of classification margin and data structure. , 2017, , .		1
48	Probabilistic fluorescence-based synapse detection. PLoS Computational Biology, 2017, 13, e1005493.	1.5	14
49	Creating and parameterizing patient-specific deep brain stimulation pathway-activation models using the hyperdirect pathway as an example. PLoS ONE, 2017, 12, e0176132.	1.1	96
50	Segmentation guided registration of wide field-of-view retinal optical coherence tomography volumes. Biomedical Optics Express, 2016, 7, 4827.	1.5	17
51	Compressed Nonnegative Matrix Factorization Is Fast and Accurate. IEEE Transactions on Signal Processing, 2016, 64, 2269-2283.	3.2	28
52	Deep Neural Networks with Random Gaussian Weights: A Universal Classification Strategy?. IEEE Transactions on Signal Processing, 2016, 64, 3444-3457.	3.2	74
53	Fundamental Limits in Multi-Image Alignment. IEEE Transactions on Signal Processing, 2016, 64, 5707-5722.	3.2	37
54	A short-graph fourier transform via personalized pagerank vectors. , 2016, , .		7

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55	Data Representation Using the Weyl Transform. IEEE Transactions on Signal Processing, 2016, 64, 1844-1853.	3.2	8
56	Quantifying Risk for Anxiety Disorders in Preschool Children: A Machine Learning Approach. PLoS ONE, 2016, 11, e0165524.	1.1	30
57	Synthesis-Based Low-Cost Gaze Analysis. Communications in Computer and Information Science, 2016, , 95-100.	0.4	4
58	Multi-temporal foreground detection in videos. , 2015, , .		1
59	On spectral properties for graph matching and graph isomorphism problems. Information and Inference, 2015, 4, 63-76.	0.9	16
60	Alignment with intra-class structure can improve classification. , 2015, , .		1
61	Cross-modality pose-invariant facial expression. , 2015, , .		7
62	Hand-Held Video Deblurring Via Efficient Fourier Aggregation. IEEE Transactions on Computational Imaging, 2015, 1, 270-283.	2.6	54
63	Removing Camera Shake via Weighted Fourier Burst Accumulation. IEEE Transactions on Image Processing, 2015, 24, 3293-3307.	6.0	33
64	Cancer: What's luck got to do with it?. Significance, 2015, 12, 40-42.	0.3	3
65	Sparse Bayesian Inference of White Matter Fiber Orientations from Compressed Multi-resolution Diffusion MRI. Lecture Notes in Computer Science, 2015, 9349, 117-124.	1.0	4
66	A scalable app for measuring autism risk behaviors in young children: A technical validity and feasibility study. , 2015, , .		9
67	Low-cost Gaze and Pulse Analysis using RealSense. , 2015, , .		2
68	Low-Cost Compressive Sensing for Color Video and Depth. , 2014, , .		62
69	A Tetraploid Intermediate Precedes Aneuploid Formation in Yeasts Exposed to Fluconazole. PLoS Biology, 2014, 12, e1001815.	2.6	147
70	Intersecting 2D lines: A simple method for detecting vanishing points. , 2014, , .		1
71	Questionnaire simplification for fast risk analysis of children's mental health. , 2014, , .		2
72	Computer Vision Tools for Low-Cost and Noninvasive Measurement of Autism-Related Behaviors in Infants. Autism Research & Treatment, 2014, 2014, 1-12.	0.1	43

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73	Automatic clustering and population analysis of white matter tracts using maximum density paths. NeuroImage, 2014, 97, 284-295.	2.1	31
74	Estimation of the CSAâ€ODF using Bayesian compressed sensing of multiâ€shell HARDI. Magnetic Resonance in Medicine, 2014, 72, 1471-1485.	1.9	15
75	All for one, one for all: Consensus community detection in networks. , 2014, , .		0
76	Video Compressive Sensing Using Gaussian Mixture Models. IEEE Transactions on Image Processing, 2014, 23, 4863-4878.	6.0	158
77	A Biclustering Framework for Consensus Problems. SIAM Journal on Imaging Sciences, 2014, 7, 2488-2525.	1.3	10
78	Accelerating Discovery in 3D Microanalysis: Leveraging Open Source Software and Deskside High Performance Computing. Microscopy and Microanalysis, 2014, 20, 774-775.	0.2	0
79	Geometric computation of human gyrification indexes from magnetic resonance images. Human Brain Mapping, 2013, 34, 1230-1244.	1.9	39
80	Advances in diffusion MRI acquisition and processing in the Human Connectome Project. NeuroImage, 2013, 80, 125-143.	2.1	851
81	Fast L1 smoothing splines with an application to Kinect depth data. , 2013, , .		4
82	Importance Sampling Spherical Harmonics to Improve Probabilistic Tractography. , 2013, , .		0
83	Gaussian mixture model for video compressive sensing. , 2013, , .		12
84	Adaptive temporal compressive sensing for video. , 2013, , .		36
85	Molecular Structures of Native HA Trimers on 2009 H1N1 Pandemic Influenza Virus Complexed with Neutralizing Antibodies. Biophysical Journal, 2013, 104, 414a.	0.2	1
86	Task-Driven Adaptive Statistical Compressive Sensing of Gaussian Mixture Models. IEEE Transactions on Signal Processing, 2013, 61, 585-600.	3.2	47
87	Deep Learning with Hierarchical Convolutional Factor Analysis. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2013, 35, 1887-1901.	9.7	80
88	Pushing spatial and temporal resolution for functional and diffusion MRI in the Human Connectome Project. NeuroImage, 2013, 80, 80-104.	2.1	769
89	Coded aperture compressive temporal imaging. Optics Express, 2013, 21, 10526.	1.7	320
90	Magnetic Resonance Field Strength Effects on Diffusion Measures and Brain Connectivity Networks. Brain Connectivity, 2013, 3, 72-86.	0.8	42

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91	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.	3.3	99
92	Design of multishell sampling schemes with uniform coverage in diffusion MRI. Magnetic Resonance in Medicine, 2013, 69, 1534-1540.	1.9	260
93	Structural Mechanism of Trimeric HIV-1 Envelope Glycoprotein Activation. PLoS Pathogens, 2012, 8, e1002797.	2.1	182
94	178 Utility of 7T Imaging for Deep Brain Stimulation Surgery. Neurosurgery, 2012, 71, E569-E570.	0.6	0
95	Toward Multiple Catheters Detection in Fluoroscopic Image Guided Interventions. IEEE Transactions on Information Technology in Biomedicine, 2012, 16, 770-781.	3.6	27
96	Universal Regularizers for Robust Sparse Coding and Modeling. IEEE Transactions on Image Processing, 2012, 21, 3850-3864.	6.0	27
97	Dictionary Learning for Noisy and Incomplete Hyperspectral Images. SIAM Journal on Imaging Sciences, 2012, 5, 33-56.	1.3	93
98	A Convex Model for Nonnegative Matrix Factorization and Dimensionality Reduction on Physical Space. IEEE Transactions on Image Processing, 2012, 21, 3239-3252.	6.0	122
99	Protein Secondary Structure Determination by Constrained Single-Particle Cryo-Electron Tomography. Structure, 2012, 20, 2003-2013.	1.6	90
100	Hierarchical topological network analysis of anatomical human brain connectivity and differences related to sex and kinship. NeuroImage, 2012, 59, 3784-3804.	2.1	57
101	An MDL Framework for Sparse Coding and Dictionary Learning. IEEE Transactions on Signal Processing, 2012, 60, 2913-2927.	3.2	73
102	Comprehensive in vivo Mapping of the Human Basal Ganglia and Thalamic Connectome in Individuals Using 7T MRI. PLoS ONE, 2012, 7, e29153.	1.1	159
103	A 3D wavelet fusion approach for the reconstruction of isotropic-resolution MR images from orthogonal anisotropic-resolution scans. Magnetic Resonance in Medicine, 2012, 67, 1167-1172.	1.9	19
104	Sparse Modeling of Human Actions from Motion Imagery. International Journal of Computer Vision, 2012, 100, 1-15.	10.9	88
105	Sparse Representations for Range Data Restoration. IEEE Transactions on Image Processing, 2012, 21, 2909-2915.	6.0	23
106	Feasibility of Using Ultra-High Field (7 T) MRI for Clinical Surgical Targeting. PLoS ONE, 2012, 7, e37328.	1.1	86
107	Learning Discriminative Sparse Representations for Modeling, Source Separation, and Mapping of Hyperspectral Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 4263-4281.	2.7	108
108	Statistical Compressed Sensing of Gaussian Mixture Models. IEEE Transactions on Signal Processing, 2011, 59, 5842-5858.	3.2	66

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109	Esophagus Silhouette Extraction and Reconstruction From Fluoroscopic Views for Cardiac Ablation Procedure Guidance. IEEE Transactions on Information Technology in Biomedicine, 2011, 15, 703-708.	3.6	2
110	A Continuum Mechanical Approach to Geodesics in Shape Space. International Journal of Computer Vision, 2011, 93, 293-318.	10.9	57
111	A Variational Framework for Exemplar-Based Image Inpainting. International Journal of Computer Vision, 2011, 93, 319-347.	10.9	167
112	A Hough transform global probabilistic approach to multiple-subject diffusion MRI tractography. Medical Image Analysis, 2011, 15, 414-425.	7.0	126
113	C-HiLasso: A Collaborative Hierarchical Sparse Modeling Framework. IEEE Transactions on Signal Processing, 2011, 59, 4183-4198.	3.2	139
114	Comparing shapes, understanding evolution. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18189-18190.	3.3	0
115	A Gromov-Hausdorff Framework with Diffusion Geometry forÂTopologically-Robust Non-rigid Shape Matching. International Journal of Computer Vision, 2010, 89, 266-286.	10.9	203
116	Reconstruction of the orientation distribution function in singleâ€•and multipleâ€•shell qâ€•ball imaging within constant solid angle. Magnetic Resonance in Medicine, 2010, 64, 554-566.	1.9	329
117	The development of gyrification in childhood and adolescence. Brain and Cognition, 2010, 72, 36-45.	0.8	320
118	A Comprehensive Framework for Image Inpainting. IEEE Transactions on Image Processing, 2010, 19, 2634-2645.	6.0	214
119	Simultaneous Object Classification and Segmentation With High-Order Multiple Shape Models. IEEE Transactions on Image Processing, 2010, 19, 625-635.	6.0	29
120	Generalized Newton-Type Methods for Energy Formulations in Image Processing. SIAM Journal on Imaging Sciences, 2009, 2, 508-531.	1.3	19
121	Measurement of cortical thickness from MRI by minimum line integrals on softâ€•classified tissue. Human Brain Mapping, 2009, 30, 3188-3199.	1.9	45
122	New Possibilities with Sobolev Active Contours. International Journal of Computer Vision, 2009, 84, 113-129.	10.9	41
123	Three-dimensional arm movements at constant equi-affine speed. Cortex, 2009, 45, 325-339.	1.1	46
124	Translated Poisson Mixture Model for Stratification Learning. International Journal of Computer Vision, 2008, 80, 358-374.	10.9	38
125	Molecular architecture of native HIV-1 gp120 trimers. Nature, 2008, 455, 109-113.	13.7	720
126	Multiscale Representation and Segmentation of Hyperspectral Imagery Using Geometric Partial Differential Equations and Algebraic Multigrid Methods. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 2418-2434.	2.7	40

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127	Robust Foreground Detection In Video Using Pixel Layers. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 746-751.	9.7	84
128	Learning Multiscale Sparse Representations for Image and Video Restoration. Multiscale Modeling and Simulation, 2008, 7, 214-241.	0.6	396
129	Statistical Characterization of Protein Ensembles. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2008, 5, 42-55.	1.9	8
130	A Geometric Method for Automatic Extraction of Sulcal Fundi. IEEE Transactions on Medical Imaging, 2007, 26, 530-540.	5.4	57
131	Spatially Coherent Nonlinear Dimensionality Reduction and Segmentation of Hyperspectral Images. IEEE Geoscience and Remote Sensing Letters, 2007, 4, 206-210.	1.4	102
132	Interactive Image Segmentation via Adaptive Weighted Distances. IEEE Transactions on Image Processing, 2007, 16, 1046-1057.	6.0	133
133	Video Inpainting Under Constrained Camera Motion. IEEE Transactions on Image Processing, 2007, 16, 545-553.	6.0	197
134	Shapes of Antibody Binding Sites:‰ Qualitative and Quantitative Analyses Based on a Geomorphic Classification Scheme. Journal of Organic Chemistry, 2006, 71, 5082-5092.	1.7	39
135	O(N) implementation of the fast marching algorithm. Journal of Computational Physics, 2006, 212, 393-399.	1.9	188
136	Fast image and video colorization using chrominance blending. IEEE Transactions on Image Processing, 2006, 15, 1120-1129.	6.0	405
137	Fourth order partial differential equations on general geometries. Journal of Computational Physics, 2006, 216, 216-246.	1.9	109
138	Statistical Analysis of RNA Backbone. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2006, 3, 33-46.	1.9	33
139	A Theoretical and Computational Framework for Isometry Invariant Recognition of Point Cloud Data. Foundations of Computational Mathematics, 2005, 5, 313-347.	1.5	232
140	Distance Functions and Geodesics on Submanifolds of R^d and Point Clouds. SIAM Journal on Applied Mathematics, 2005, 65, 1227-1260.	0.8	48
141	An energy-based three-dimensional segmentation approach for the quantitative interpretation of electron tomograms. IEEE Transactions on Image Processing, 2005, 14, 1314-1323.	6.0	38
142	Is image steganography natural?. IEEE Transactions on Image Processing, 2005, 14, 2040-2050.	6.0	75
143	Area-Based Medial Axis of Planar Curves. International Journal of Computer Vision, 2004, 60, 203-224.	10.9	12
144	Solving variational problems and partial differential equations mapping into general target manifolds. Journal of Computational Physics, 2004, 195, 263-292.	1.9	48

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145	Morse Description and Geometric Encoding of Digital Elevation Maps. IEEE Transactions on Image Processing, 2004, 13, 1245-1262.	6.0	25
146	Morse Description and Morphological Encoding of Continuous Data. Multiscale Modeling and Simulation, 2004, 2, 179-209.	0.6	5
147	Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osherâ€™s contributions. Journal of Computational Physics, 2003, 185, 309-341.	1.9	55
148	Simultaneous structure and texture image inpainting. IEEE Transactions on Image Processing, 2003, 12, 882-889.	6.0	790
149	Structure and texture filling-in of missing image blocks in wireless transmission and compression applications. IEEE Transactions on Image Processing, 2003, 12, 296-303.	6.0	182
150	Visualization of high dynamic range images. IEEE Transactions on Image Processing, 2003, 12, 639-647.	6.0	34
151	Crease Enhancement Diffusion. Computer Vision and Image Understanding, 2001, 84, 241-248.	3.0	22
152	Fast Computation of Weighted Distance Functions and Geodesics on Implicit Hyper-Surfaces. Journal of Computational Physics, 2001, 173, 730-764.	1.9	85
153	Variational Problems and Partial Differential Equations on Implicit Surfaces. Journal of Computational Physics, 2001, 174, 759-780.	1.9	288
154	A system for the generation of curves on 3D brain images. Human Brain Mapping, 2001, 14, 1-15.	1.9	45
155	On the computation of the affine skeletons of planar curves and the detection of skew symmetry. Pattern Recognition, 2001, 34, 943-952.	5.1	2
156	Title is missing!. International Journal of Computer Vision, 2000, 36, 149-161.	10.9	161
157	Vector Median Filters, Inf-Sup Operations, and Coupled PDE's: Theoretical Connections. Journal of Mathematical Imaging and Vision, 2000, 12, 109-119.	0.8	36
158	Affine Invariant Detection: Edge Maps, Anisotropic Diffusion, and Active Contours. Acta Applicandae Mathematicae, 1999, 59, 45-77.	0.5	37
159	Affine-Invariant Distances, Envelopes and Symmetry Sets. Geometriae Dedicata, 1998, 71, 237-261.	0.1	28
160	On the affine heat equation for non-convex curves. Journal of the American Mathematical Society, 1998, 11, 601-634.	1.9	60
161	Constant Affine Velocity Predicts the 13 Power Law of Planar Motion Perception and Generation. Vision Research, 1997, 37, 347-353.	0.7	87
162	A subspace reverse-correlation technique for the study of visual neurons. Vision Research, 1997, 37, 2455-2464.	0.7	184

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163	Invariant Geometric Evolutions of Surfaces and Volumetric Smoothing. SIAM Journal on Applied Mathematics, 1997, 57, 176-194.	0.8	62
164	Color Snakes. Computer Vision and Image Understanding, 1997, 68, 247-253.	3.0	149
165	Geodesic Active Contours. International Journal of Computer Vision, 1997, 22, 61-79.	10.9	4,309
166	A Subdivision Scheme for Continuous-Scale B-Splines and Affine-Invariant Progressive Smoothing. Journal of Mathematical Imaging and Vision, 1997, 7, 23-40.	0.8	6
167	Contrast Enhancement via Image Evolution Flows. Graphical Models, 1997, 59, 407-416.	1.4	24
168	Histogram Modification via Differential Equations. Journal of Differential Equations, 1997, 135, 238-268.	1.1	78
169	The ubiquitous ellipse. Acta Applicandae Mathematicae, 1995, 38, 149-161.	0.5	5
170	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.	1.7	4
171	Implementing continuous-scale morphology via curve evolution. Pattern Recognition, 1993, 26, 1363-1372.	5.1	129
172	Affine invariant scale-space. International Journal of Computer Vision, 1993, 11, 25-44.	10.9	294