

Yehoshua Y Zeevi

List of Publications by Year in descending order

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87
papers

2,561
citations

516710

16
h-index

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49
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88
all docs

88
docs citations

88
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	On Inversion-Free Mapping and Distortion Minimization. Journal of Mathematical Imaging and Vision, 2021, 63, 974-1009.	1.3	3
2	Adaptive Block Coordinate Descent for Distortion Optimization. Computer Graphics Forum, 2020, 39, 360-376.	3.0	10
3	Multi-resolution approach to computing locally injective maps on meshes. , 2019, , .		2
4	Fractal Features Combined with Local Phase Information in Texture Analysis. , 2019, , .		0
5	Blind Deblurring of Natural Stochastic Textures Using an Anisotropic Fractal Model and Phase Retrieval Algorithm. IEEE Transactions on Image Processing, 2019, 28, 937-951.	9.8	4
6	Geometric approach to detecting volumetric changes in medical images. Journal of Computational and Applied Mathematics, 2018, 329, 37-50.	2.0	9
7	Face anti-spoofing based on projective invariants. , 2018, , .		1
8	Geometry-based distortion measures for space deformation. Graphical Models, 2018, 100, 12-25.	2.4	5
9	Exploiting spatial phase in deconvolution of structured stochastic textures. , 2016, , .		0
10	Geometric Approach to Estimation of Volumetric Distortions. , 2016, , .		4
11	On the role of non-local Menger curvature in image processing. , 2015, , .		1
12	Denoising of natural stochastic colored-textures based on fractional brownian motion model. , 2015, , .		1
13	Model-based color natural stochastic textures processing and classification. , 2015, , .		5
14	Image unmixing success estimation in spatially varying systems. , 2015, , .		0
15	Texture enhancement using diffusion process with potential. , 2014, , .		2
16	Ricci flow for image processing. , 2014, , .		5
17	Combining long-range dependencies with phase information in Natural Stochastic Texture enhancement. , 2014, , .		5
18	Statistics of Stochastic Textures: Application in pattern analysis and image processing. , 2014, , .		0

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19	Single-Image Superresolution of Natural Stochastic Textures Based on Fractional Brownian Motion. IEEE Transactions on Image Processing, 2014, 23, 2096-2108.	9.8	25
20	Stable denoising-enhancement of images by telegraph-diffusion operators. , 2013, , .		3
21	Geometric Approach to Sampling and Communication. Sampling Theory in Signal and Information Processing, 2012, 11, 1-24.	0.2	5
22	Stable Image Enhancement by Adaptive Damped Wave Equation with Force Term. , 2011, , .		2
23	Denoising-Enhancing Images on Elastic Manifolds. IEEE Transactions on Image Processing, 2011, 20, 2099-2109.	9.8	14
24	Sparse Source Separation of Non-instantaneous Spatially Varying Single Path Mixtures. Lecture Notes in Computer Science, 2011, , 141-152.	1.3	1
25	Blind separation of position varying mixed images. , 2009, , .		4
26	Combinatorial Ricci Curvature and Laplacians for Image Processing. , 2009, , .		14
27	The dynamics of image denoising viewed as damped elastic deformation. , 2009, , .		1
28	Geometric Approach to Measure-Based Metric in Image Segmentation. Journal of Mathematical Imaging and Vision, 2009, 33, 360-378.	1.3	1
29	The dynamics of image processing viewed as deformation of elastic sheet. , 2009, , .		0
30	Analysis and segmentation of Brain MR images with Blind-Source-Separation techniques. , 2009, , .		0
31	Sampling and Reconstruction of Surfaces and Higher Dimensional Manifolds. Journal of Mathematical Imaging and Vision, 2008, 30, 105-123.	1.3	22
32	Local versus Global in Quasi-Conformal Mapping for Medical Imaging. Journal of Mathematical Imaging and Vision, 2008, 32, 293-311.	1.3	6
33	Macromolecular sequence analysis using multiwindow Gabor representations. Signal Processing, 2008, 88, 877-890.	3.7	8
34	Two-dimensional affine frames for image analysis and synthesis. Applied and Computational Harmonic Analysis, 2008, 24, 174-194.	2.2	2
35	Image representation and enhancement on elastic manifolds. , 2008, , .		1
36	Blind separation of images obtained by spatially-varying mixing system. , 2008, , .		7

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37	Telegraph-Diffusion Operator for Image Enhancement. Proceedings International Conference on Image Processing, 2007, , .	0.0	2
38	Variational Distance-Dependent Image Restoration. , 2007, , .		25
39	Image Enhancement Using Elastic Manifolds. , 2007, , .		11
40	Existence Conditions for Discrete Noncanonical Multiwindow Gabor Schemes. IEEE Transactions on Signal Processing, 2007, 55, 5113-5117.	5.3	7
41	Image Projection and Representation on Sn. Journal of Fourier Analysis and Applications, 2007, 13, 711-727.	1.0	8
42	Geometric Sampling of Manifolds for Image Representation and Processing. , 2007, , 907-918.		4
43	Integrated active contours for texture segmentation. IEEE Transactions on Image Processing, 2006, 15, 1633-1646.	9.8	160
44	Variational denoising of partly textured images by spatially varying constraints. IEEE Transactions on Image Processing, 2006, 15, 2281-2289.	9.8	148
45	Estimation of optimal PDE-based denoising in the SNR sense. IEEE Transactions on Image Processing, 2006, 15, 2269-2280.	9.8	88
46	The Uncertainty Principle: Group Theoretic Approach, Possible Minimizers and Scale-Space Properties. Journal of Mathematical Imaging and Vision, 2006, 26, 149-166.	1.3	11
47	Brain Tissue Mapping and Segmentation by MRI-based Blind-Source-Separation Techniques. , 2006, 2006, 3446-9.		0
48	Quasi-conformal Flat Representation of Triangulated Surfaces for Computerized Tomography. Lecture Notes in Computer Science, 2006, , 155-165.	1.3	1
49	Brain Tissue Mapping and Segmentation by MRI-based Blind-Source-Separation Techniques. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
50	Scale-Space Generation via Uncertainty Principles. Lecture Notes in Computer Science, 2005, , 351-362.	1.3	4
51	Sparse ICA for blind separation of transmitted and reflected images. International Journal of Imaging Systems and Technology, 2005, 15, 84-91.	4.1	93
52	Real and Complex PDE-Based Schemes for Image Sharpening and Enhancement. Advances in Imaging and Electron Physics, 2005, 136, 1-109.	0.2	7
53	Estimation of the Optimal Variational Parameter via SNR Analysis. Lecture Notes in Computer Science, 2005, , 230-241.	1.3	5
54	Blind deconvolution of images using optimal sparse representations. IEEE Transactions on Image Processing, 2005, 14, 726-736.	9.8	78

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55	A Fast Spectral Method for Active 3D Shape Reconstruction. Journal of Mathematical Imaging and Vision, 2004, 20, 73-87.	1.3	591
56	Image Sharpening by Flows Based on Triple Well Potentials. Journal of Mathematical Imaging and Vision, 2004, 20, 121-131.	1.3	38
57	Image enhancement and denoising by complex diffusion processes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2004, 26, 1020-1036.	13.9	390
58	Forward-and-backward diffusion processes for adaptive image enhancement and denoising. IEEE Transactions on Image Processing, 2002, 11, 689-703.	9.8	290
59	Extraction of a source from multichannel data using sparse decomposition. Neurocomputing, 2002, 49, 163-173.	5.9	62
60	Gabor Feature Space Diffusion via the Minimal Weighted Area Method. Lecture Notes in Computer Science, 2001, , 621-635.	1.3	6
61	Geodesic Active Contours Applied to Texture Feature Space. , 2001, , 344-352.		12
62	Color Image Enhancement by a Forward-and-Backward Adaptive Beltrami Flow. Lecture Notes in Computer Science, 2000, , 319-328.	1.3	4
63	Gabor-Space Geodesic Active Contours. Lecture Notes in Computer Science, 2000, , 309-318.	1.3	6
64	Frame analysis of wavelet-type filter banks. Signal Processing, 1998, 67, 125-139.	3.7	2
65	The Generalized Gabor Scheme and Its Application in Signal and Image Representation. Wavelet Analysis and Its Applications, 1998, 7, 121-164.	0.2	2
66	Analysis of Multiwindow Gabor-Type Schemes by Frame Methods. Applied and Computational Harmonic Analysis, 1997, 4, 188-221.	2.2	105
67	Spatio-Temporal Source Estimation of Evoked Potentials by Wavelet-Type Decomposition. , 1996, , 103-122.		3
68	Spatio-temporal multiple source localization by wavelet-type decomposition of evoked potentials. Electroencephalography and Clinical Neurophysiology - Evoked Potentials, 1995, 96, 278-286.	2.0	16
69	Preattentive equivalence of multicomponent Gabor textures in the central and peripheral visual field. Vision Research, 1995, 35, 495-506.	1.4	6
70	Visual assessment of variable-resolution imagery. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 2367.	1.5	10
71	A wavelet-type approach to image analysis and vision. , 1994, , 169-212.		0
72	Spherical Wavelets and Their Applications to Image Representation. Journal of Visual Communication and Image Representation, 1993, 4, 263-270.	2.8	7

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73	Image analysis by wavelet-type transforms: Group theoretic approach. Journal of Mathematical Imaging and Vision, 1993, 3, 51-77.	1.3	17
74	Wavelet decomposition of multichannel evoked potentials. Electroencephalography and Clinical Neurophysiology, 1993, 87, S25-S26.	0.3	3
75	Image Analysis by Wavelet-Type Transforms: Group Theoretic Approach. , 1993, , 51-77.		14
76	<title>Gabor representation with oversampling</title>. Proceedings of SPIE, 1992, , .	0.8	6
77	The finite Zak transform: An efficient tool for image representation and analysis. Journal of Visual Communication and Image Representation, 1992, 3, 13-23.	2.8	29
78	Neural-network-aided design for image processing. , 1991, , .		5
79	Computer image generation for flight simulators: the Gabor approach. Visual Computer, 1990, 6, 93-105.	3.5	5
80	Hemispheric Interactions in Saccadic Responses to Bihemifield Stimuli. , 1989, , 311-322.		0
81	Preferences and asymmetries in saccadic responses to delayed bihemifield stimuli. Vision Research, 1988, 28, 1145-1155.	1.4	9
82	Changes in the oscillatory potentials of the electroretinogram in glaucoma. Current Eye Research, 1987, 6, 457-466.	1.5	42
83	Reorganization and diversification of signals in vision. IEEE Transactions on Systems, Man, and Cybernetics, 1985, SMC-15, 91-101.	0.9	39
84	An adaptive stochastic model for the neural coding process. IEEE Transactions on Systems, Man, and Cybernetics, 1985, SMC-15, 343-351.	0.9	4
85	Special issue on neural and sensory information processing. IEEE Transactions on Systems, Man, and Cybernetics, 1983, SMC-13, 666-667.	0.9	2
86	Measurement of Eye Movement with a Ferromagnetic Contact Ring. IEEE Transactions on Biomedical Engineering, 1982, BME-29, 511-522.	4.2	5
87	Latency of peripheral saccades. Journal of the Optical Society of America, 1979, 69, 1274.	1.2	6