

# Lionel Pj Moisan

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,106  
citations

331670

21  
h-index

315739

38  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1880  
citing authors

#	ARTICLE	IF	CITATIONS
1	A non intrusive audio clarity index (NIAC) and its application to blind source separation. Signal Processing, 2022, 194, 108448.	3.7	2
2	Algorithm 1006. ACM Transactions on Mathematical Software, 2020, 46, 1-24.	2.9	3
3	Active skeleton for bacteria modelling. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 274-286.	1.9	1
4	The Billard Theorem for Multiple Random Fourier Series. Journal of Fourier Analysis and Applications, 2017, 23, 207-228.	1.0	4
5	Texton Noise. Computer Graphics Forum, 2017, 36, 205-218.	3.0	23
6	The Shannon Total Variation. Journal of Mathematical Imaging and Vision, 2017, 59, 341-370.	1.3	12
7	An image-inspired audio sharpness index. , 2017, , .		0
8	Microtexture inpainting through Gaussian conditional simulation. , 2016, , .		1
9	Particle detection and tracking in fluorescence time-lapse imaging: a contrario approach. Machine Vision and Applications, 2016, 27, 511-527.	2.7	2
10	No-Reference Image Quality Assessment and Blind Deblurring with Sharpness Metrics Exploiting Fourier Phase Information. Journal of Mathematical Imaging and Vision, 2015, 52, 145-172.	1.3	54
11	A Turning-Band Method for the Simulation of Anisotropic Fractional Brownian Fields. Journal of Computational and Graphical Statistics, 2015, 24, 885-904.	1.7	10
12	Total Variation Restoration of Images Corrupted by Poisson Noise with Iterated Conditional Expectations. Lecture Notes in Computer Science, 2015, , 178-190.	1.3	16
13	Conical diffraction as a versatile building block to implement new imaging modalities for superresolution in fluorescence microscopy. Proceedings of SPIE, 2014, , .	0.8	8
14	Conical diffraction illumination opens the way for low phototoxicity super-resolution imaging. Cell Adhesion and Migration, 2014, 8, 430-439.	2.7	23
15	A New A Contrario Approach for the Robust Determination of the Fundamental Matrix. Lecture Notes in Computer Science, 2014, , 181-192.	1.3	4
16	A stable method solving the total variation dictionary model with $L^\infty$ constraints. Inverse Problems and Imaging, 2014, 8, 507-535.	1.1	1
17	A Dictionary Learning Approach for Poisson Image Deblurring. IEEE Transactions on Medical Imaging, 2013, 32, 1277-1289.	8.9	82
18	Posterior Expectation of the Total Variation Model: Properties and Experiments. SIAM Journal on Imaging Sciences, 2013, 6, 2640-2684.	2.2	26

#	ARTICLE	IF	CITATIONS
19	Localization of Protein Aggregation in Escherichia coli Is Governed by Diffusion and Nucleoid Macromolecular Crowding Effect. PLoS Computational Biology, 2013, 9, e1003038.	3.2	113
20	Blind Deblurring Using a Simplified Sharpness Index. Lecture Notes in Computer Science, 2013, , 86-97.	1.3	4
21	Multiparametric Analyses Reveal the pH-Dependence of Silicon Biomineralization in Diatoms. PLoS ONE, 2012, 7, e46722.	2.5	68
22	A compact representation of random phase and Gaussian textures. , 2012, , .		8
23	An explicit sharpness index related to global phase coherence. , 2012, , .		48
24	Multiplicative Noise Removal via a Learned Dictionary. IEEE Transactions on Image Processing, 2012, 21, 4534-4543.	9.8	73
25	Intrinsic nonlinear multiscale image decomposition: A 2D empirical mode decomposition-like tool. Computer Vision and Image Understanding, 2012, 116, 102-119.	4.7	15
26	Total Variation as a Local Filter. SIAM Journal on Imaging Sciences, 2011, 4, 651-694.	2.2	64
27	Periodic Plus Smooth Image Decomposition. Journal of Mathematical Imaging and Vision, 2011, 39, 161-179.	1.3	84
28	An aliasing detection algorithm based on suspicious colocalizations of Fourier coefficients. , 2010, , .		8
29	An A-Contrario Approach for Subpixel Change Detection in Satellite Imagery. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2010, 32, 1977-1993.	13.9	65
30	Automatic detection of well sampled images via a new ringing measure. , 2010, , .		3
31	A-contrario Detectability of Spots in Textured Backgrounds. Journal of Mathematical Imaging and Vision, 2009, 33, 313-337.	1.3	42
32	Unsupervised Subpixelic Classification Using Coarse-Resolution Time Series and Structural Information. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1359-1374.	6.3	25
33	From Gestalt Theory to Image Analysis. Interdisciplinary Applied Mathematics, 2008, , .	0.3	204
34	Tracking of cells in a sequence of images using a low-dimension image representation. , 2008, , .		9
35	Measuring the Global Phase Coherence of an image. , 2008, , .		38
36	An Unsupervised Approach for Subpixelic Land-Cover Change Detection. , 2007, , .		2

#	ARTICLE	IF	CITATIONS
37	How to discretize the Total Variation of an image?. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1041907-1041908.	0.2	16
38	A linear prefilter for image sampling with ringing artifact control. , 2005, , .		3
39	Shape Smoothing and PDEs. , 2005, , 573-586.		0
40	A Probabilistic Criterion to Detect Rigid Point Matches Between Two Images and Estimate the Fundamental Matrix. International Journal of Computer Vision, 2004, 57, 201-218.	15.6	131
41	Gestalt Theory and Computer Vision. , 2004, , 71-101.		48
42	Computational gestalts and perception thresholds. Journal of Physiology (Paris), 2003, 97, 311-324.	2.1	54
43	Variational Snake Theory. , 2003, , 79-99.		4
44	On the Theory of Planar Shape. Multiscale Modeling and Simulation, 2003, 1, 1-24.	1.6	28
45	Maximal meaningful events and applications to image analysis. Annals of Statistics, 2003, 31, 1822.	2.6	48
46	Dequantizing image orientation. IEEE Transactions on Image Processing, 2002, 11, 1129-1140.	9.8	22
47	A review of P.D.E. models in image processing and image analysis. European Physical Journal Special Topics, 2002, 12, 137-154.	0.2	22
48	Edge Detection by Helmholtz Principle. Journal of Mathematical Imaging and Vision, 2001, 14, 271-284.	1.3	141
49	Geometric Computation of Curvature Driven Plane Curve Evolutions. SIAM Journal on Numerical Analysis, 2001, 39, 624-646.	2.3	11
50	Meaningful Alignments. International Journal of Computer Vision, 2000, 40, 7-23.	15.6	271
51	Geometric Multiscale Representation of Numerical Images. Lecture Notes in Computer Science, 1999, , 339-350.	1.3	8
52	Affine plane curve evolution: a fully consistent scheme. IEEE Transactions on Image Processing, 1998, 7, 411-420.	9.8	46
53	Perspective invariant movie analysis for depth recovery. , 1995, , .		2
54	Multiscale analysis of movies for depth recovery. , 0, , .		1

#	ARTICLE	IF	CITATIONS
55	Automatic detection of rigid point matches. , 0, , .		0
56	Automatic Homographic Registration of a Pair of Images, with A Contrario Elimination of Outliers. Image Processing on Line, 0, 2, 56-73.	0.0	104