

Alin M Achim

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

1,841
citations

21
h-index

41
g-index

112
ext. papers

2,272
ext. citations

4.6
avg, IF

5.08
L-index

#	Paper	IF	Citations
89	Cauchy-Rician Model for Backscattering in Urban SAR Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 1-1	4.1	
88	Textural Feature Analysis of Optical Coherence Tomography Phantoms. <i>Electronics (Switzerland)</i> , 2022 , 11, 669	2.6	1
87	Modeling and SAR imaging of the sea surface: A review of the state-of-the-art with simulations. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2022 , 187, 120-140	11.8	4
86	Sparse Regularization with a Non-Convex Penalty for SAR Imaging and Autofocusing. <i>Remote Sensing</i> , 2022 , 14, 2190	5	
85	River Planform Extraction From High-Resolution SAR Images via Generalized Gamma Distribution Superpixel Classification. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 3942-3955	8.1	7
84	On Solving SAR Imaging Inverse Problems Using Nonconvex Regularization With a Cauchy-Based Penalty. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 5828-5840	8.1	12
83	Representation Learning via Cauchy Convolutional Sparse Coding. <i>IEEE Access</i> , 2021 , 9, 100447-100459	3.5	2
82	A Generalized Gaussian Extension to the Rician Distribution for SAR Image Modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-15	8.1	2
81	Autoregressive Model-Based Reconstruction of Quantitative Acoustic Maps From RF Signals Sampled at Innovation Rate. <i>IEEE Transactions on Computational Imaging</i> , 2020 , 6, 993-1006	4.5	
80	Correction to Ship Wake Detection in SAR Images via Sparse Regularization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 6122-6123	8.1	
79	Ship Wake Detection in SAR Images via Sparse Regularization. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 1665-1677	8.1	21
78	Image fusion via sparse regularization with non-convex penalties. <i>Pattern Recognition Letters</i> , 2020 , 131, 355-360	4.7	8
77	Modelling Sea Clutter In Sar Images Using Laplace-Rician Distribution 2020 ,		2
76	The Effect Of Sea State On Ship Wake Detectability In Simulated Sar Imagery 2020 ,		1
75	Detection Of Ship Wakes In Sar Imagery Using Cauchy Regularisation 2020 ,		2
74	Convergence Guarantees for Non-Convex Optimisation With Cauchy-Based Penalties. <i>IEEE Transactions on Signal Processing</i> , 2020 , 68, 6159-6170	4.8	9
73	Detection of Line Artifacts in Lung Ultrasound Images of COVID-19 Patients Via Nonconvex Regularization. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020 , 67, 2218-2229	3.2	9

72	Ship Wake Detection in X-band SAR Images Using Sparse GMC Regularization 2019 ,		4
71	Super-Resolution OCT Using Sparse Representations and Heavy-Tailed Models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019</i> , 2019, 5585-5588	0.9	1
70	Approximate Message Passing Reconstruction of Quantitative Acoustic Microscopy Images. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2018 , 65, 327-338	3.2	5
69	. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2018 , 15, 1397-1401	4.1	66
68	Atmospheric Turbulence Mitigation for Sequences with Moving Objects Using Recursive Image Fusion 2018 ,		6
67	Super-Resolution in Optical Coherence Tomography. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018</i> , 2018, 1-4	0.9	4
66	Automated mitosis detection in histopathology based on non-gaussian modeling of complex wavelet coefficients. <i>Neurocomputing</i> , 2017 , 237, 291-303	5.4	12
65	Superpixel-guided CFAR detection of ships at sea in SAR imagery 2017 ,		3
64	Line Detection as an Inverse Problem: Application to Lung Ultrasound Imaging. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 2045-2056	11.7	30
63	A novel approach to identifying merging/splitting events in time-lapse microscopy 2016 ,		2
62	Contrast Sensitivity of the Wavelet, Dual Tree Complex Wavelet, Curvelet, and Steerable Pyramid Transforms. <i>IEEE Transactions on Image Processing</i> , 2016 , 25, 2739-2751	8.7	16
61	Recurrence quantification analysis of denoised index returns via alpha-stable modeling of wavelet coefficients: detecting switching volatility regimes. <i>Studies in Nonlinear Dynamics and Econometrics</i> , 2016 , 20,	0.7	1
60	Energy efficient video fusion with heterogeneous CPU-FPGA devices 2016 ,		2
59	Automatic B-line detection in paediatric lung ultrasound 2016 ,		4
58	Sparse Bayesian Learning for non-Gaussian sources 2015 , 45, 2-12		4
57	Undecimated Dual-Tree Complex Wavelet Transforms. <i>Signal Processing: Image Communication</i> , 2015 , 35, 61-70	2.8	21
56	Reconstruction of Ultrasound RF Echoes Modeled as Stable Random Variables. <i>IEEE Transactions on Computational Imaging</i> , 2015 , 1, 86-95	4.5	12
55	Superpixel-based statistical anomaly detection for sense and avoid 2015 ,		2

54	Reconstruction of compressively sensed ultrasound RF echoes by exploiting non-Gaussianity and temporal structure 2015 ,		1
53	Dual-tree complex wavelet coefficient magnitude modelling using the bivariate Cauchy-Rayleigh distribution for image denoising. <i>Signal Processing</i> , 2014 , 105, 464-472	4.4	22
52	Bayesian Video Super-Resolution With Heavy-Tailed Prior Models. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2014 , 24, 905-914	6.4	9
51	Joint denoising and contrast enhancement for light microscopy image sequences 2014 ,		1
50	Robust obstacle detection based on a novel disparity calculation method and G-disparity. <i>Computer Vision and Image Understanding</i> , 2014 , 123, 23-40	4.3	7
49	Adaptive-weighted bilateral filtering and other pre-processing techniques for optical coherence tomography. <i>Computerized Medical Imaging and Graphics</i> , 2014 , 38, 526-39	7.6	33
48	A novel framework for segmentation of secretory granules in electron micrographs. <i>Medical Image Analysis</i> , 2014 , 18, 411-24	15.4	5
47	Reconstruction of compressively sampled ultrasound images using dual prior information 2014 ,		3
46	Retracing in correlative light electron microscopy: where is my object of interest?. <i>Methods in Cell Biology</i> , 2014 , 124, 1-21	1.8	10
45	Medical ultrasound image reconstruction using compressive sampling and ℓ_1 norm minimization 2014 ,		1
44	Feature-based registration for correlative light and electron microscopy images 2014 ,		1
43	Automatic contrast enhancement of low-light images based on local statistics of wavelet coefficients 2013 , 23, 1856-1866		83
42	Gaze location prediction for broadcast football video. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 4918-29	8.7	6
41	Adaptive-weighted bilateral filtering for optical coherence tomography 2013 ,		1
40	Atmospheric turbulence mitigation using complex wavelet-based fusion. <i>IEEE Transactions on Image Processing</i> , 2013 , 22, 2398-408	8.7	54
39	SVM-based texture classification in Optical Coherence Tomography 2013 ,		36
38	Video super-resolution using low rank matrix completion 2013 ,		1
37	Joint reconstruction of compressively sensed ultrasound RF echoes by exploiting temporal correlations 2013 ,		8

36	A novel system for robust lane detection and tracking. <i>Signal Processing</i> , 2012 , 92, 319-334	4.4	79
35	The Undecimated Dual Tree Complex Wavelet Transform and its application to bivariate image denoising using a Cauchy model 2012 ,		14
34	Active contour based segmentation for insulin granule cores in electron micrographs of beta islet cells. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 5339-42	0.9	
33	Dimensionality Reduction of Hyperspectral Images Using Empirical Mode Decompositions and Wavelets. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2012 , 5, 1824-1830 ²⁵	4.7	25
32	Video Super-Resolution Using Generalized Gaussian Markov Random Fields. <i>IEEE Signal Processing Letters</i> , 2012 , 19, 63-66	3.2	27
31	Mitigating the effects of atmospheric distortion using DT-CWT fusion 2012 ,		3
30	Unsupervised video anomaly detection using feature clustering. <i>IET Signal Processing</i> , 2012 , 6, 521	1.7	20
29	Dimensionality reduction of hyperspectral images with wavelet based Empirical Mode Decomposition 2011 ,		3
28	Segmentation of noisy colour images using Cauchy distribution in the complex wavelet domain. <i>IET Image Processing</i> , 2011 , 5, 159	1.7	27
27	Retinal image registration based on multiscale products and optic disc detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 6242-5	0.9	1
26	Compressive sensing for ultrasound RF echoes using α -Stable Distributions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4304-7	0.9	31
25	Automatic contrast enhancement of low-light images based on local statistics of wavelet coefficients 2010 ,		10
24	Medical image fusion using the convolution of Meridian distributions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 3727-30	0.9	2
23	Temporal registration for low-quality retinal images of the murine eye. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 6272-5	0.9	2
22	Video Foreground Detection Based on Symmetric Alpha-Stable Mixture Models. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2010 , 20, 1133-1138	6.4	26
21	Non-Gaussian model-based fusion of noisy images in the wavelet domain. <i>Computer Vision and Image Understanding</i> , 2010 , 114, 54-65	4.3	57
20	. <i>IEEE Transactions on Multimedia</i> , 2009 , 11, 624-633	6.6	60
19	Compressive image fusion 2008 ,		10

18	Context enhancement through image fusion: A multiresolution approach based on convolution of cauchy distributions. <i>Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing</i> , 2008 ,	1.6	2
17	Statistical modelling for wavelet-domain image fusion 2008 , 119-138		7
16	Statistical Model-based fusion of noisy multi-band images in the wavelet domain 2007 ,		1
15	Statistical Image Fusion with Generalised Gaussian and Alpha-Stable Distributions 2007 ,		2
14	Comments on \mathbb{A} closed-form nonparametric Bayesian estimator in the wavelet domain of images using an approximate \mathbb{B} stable prior \square <i>Pattern Recognition Letters</i> , 2007 , 28, 1845-1847	4-7	
13	Applied Multi-Dimensional Fusion. <i>Computer Journal</i> , 2007 , 50, 646-659	1-3	5
12	The Effect of Pixel-Level Fusion on Object Tracking in Multi-Sensor Surveillance Video 2007 ,		21
11	Multiscale Color-Texture Image Segmentation with Adaptive Region Merging 2007 ,		6
10	Statistical Multiscale Image Segmentation via Alpha-Stable Modeling 2007 ,		7
9	SAR Speckle Mitigation by Fusing Statistical Information from Spatial and Wavelet Domains 2007 , 794-803		
8	SAR image filtering based on the heavy-tailed Rayleigh model. <i>IEEE Transactions on Image Processing</i> , 2006 , 15, 2686-93	8.7	107
7	Image denoising using bivariate \mathbb{B} stable distributions in the complex wavelet domain. <i>IEEE Signal Processing Letters</i> , 2005 , 12, 17-20	3-2	101
6	Bivariate wavelet shrinkage using alpha-stable distributions 2005 ,		2
5	Complex wavelet domain image fusion based on fractional lower order moments 2005 ,		11
4	SAR image denoising via Bayesian wavelet shrinkage based on heavy-tailed modeling. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2003 , 41, 1773-1784	8.1	253
3	QT & RR variability spots the earliest autonomic deregulation in diabetes. Fading of vagal sino-atrial drive but not of sympathetic ventricular responsiveness to life challenges. <i>Integrative Psychological and Behavioral Science</i> , 2002 , 37, 151-61		1
2	Novel Bayesian multiscale method for speckle removal in medical ultrasound images. <i>IEEE Transactions on Medical Imaging</i> , 2001 , 20, 772-83	11.7	348
1	Idioventricular low frequency oscillation in QT interval responds univocally to RR confusing kinds of mental stress. <i>Integrative Psychological and Behavioral Science</i> , 1999 , 34, 10-8		8

