

# Bayesian Multiscale Models for Poisson Processes

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Some Observations on the Tractability of Certain Multi-Scale Models. Lecture Notes in Statistics, 1999, , 51-66.	0.1	4
2	A Bayesian multiscale framework for SPECT. , 0, , .		1
3	Reconstruction in emission tomography via a Bayesian multiscale statistical framework. , 2000, 4119, 587.		0
4	A statistical multiscale framework for Poisson inverse problems. IEEE Transactions on Information Theory, 2000, 46, 1811-1825.	1.5	107
5	Fast, Resolution-Consistent Spatial Prediction of Global Processes From Satellite Data. Journal of Computational and Graphical Statistics, 2002, 11, 63-88.	0.9	81
6	Multiresolution Markov models for signal and image processing. Proceedings of the IEEE, 2002, 90, 1396-1458.	16.4	227
8	Bayesian Multiscale Methods for Poisson Count Data. , 2003, , 89-102.		2
9	Multiscale likelihood analysis and complexity penalized estimation. Annals of Statistics, 2004, 32, 500.	1.4	64
10	A versatile statistical analysis algorithm to detect genome copy number variation. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 16292-16297.	3.3	53
11	Automatic Smoothing With Wavelets for a Wide Class of Distributions. Journal of Computational and Graphical Statistics, 2004, 13, 399-421.	0.9	28
12	Combined mapping of soil properties using a multi-scale tree-structured spatial model. Geoderma, 2004, 118, 321-334.	2.3	17
13	Bayesian Modeling in the Wavelet Domain. Handbook of Statistics, 2005, , 315-338.	0.4	3
14	On Spatial Lattice Modeling of Soil Properties. Books in Soils, Plants, and the Environment, 2005, , 393-416.	0.1	0
15	Bayesian blocks: Wavelets and beyond. Integrated Computer-Aided Engineering, 2005, 12, 119-127.	2.5	0
16	Multiscale, Multigranular Statistical Image Segmentation. Journal of the American Statistical Association, 2005, 100, 1358-1369.	1.8	20
17	A data-driven HAAR-FISZ transform for multiscale variance stabilization. , 2005, , .		2
18	A Multiresolution Tree-Structured Spatial Linear Model. Journal of Computational and Graphical Statistics, 2005, 14, 168-184.	0.9	8
19	Poisson inverse problems. Annals of Statistics, 2006, 34, 2132.	1.4	27

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20	Multiscale Poisson data smoothing. <i>Journal of the Royal Statistical Society Series B: Statistical Methodology</i> , 2006, 68, 27-48.	1.1	35
21	On Poisson signal estimation under Kullback-Leibler discrepancy and squared risk. <i>Journal of Statistical Planning and Inference</i> , 2006, 136, 882-908.	0.4	4
22	Multi-Scale Variance Stabilizing Transform for Multi-Dimensional Poisson Count Image Denoising. , 0, , .		10
24	Bayesian hierarchical multiresolution hazard model for the study of time-dependent failure patterns in early stage breast cancer. <i>Bayesian Analysis</i> , 2007, 2, 591-610.	1.6	13
25	A Comparative Simulation Study of Wavelet Shrinkage Estimators for Poisson Counts. <i>International Statistical Review</i> , 2004, 72, 209-237.	1.1	59
26	GOES-8 X-ray sensor variance stabilization using the multiscale data-driven Haar-Fisz transform. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2007, 56, 99-116.	0.5	17
27	On the Practice of Rescaling Covariates. <i>International Statistical Review</i> , 2008, 76, 285-297.	1.1	18
28	Local polynomial estimation of Poisson intensities in the presence of reporting delays. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2008, 57, 447-459.	0.5	2
29	Application of wavelet denoising to improve compression efficiency while preserving integrity of digital micrographs. <i>Journal of Microscopy</i> , 2008, 231, 81-96.	0.8	2
30	Wavelets, Ridgelets, and Curvelets for Poisson Noise Removal. <i>IEEE Transactions on Image Processing</i> , 2008, 17, 1093-1108.	6.0	303
31	Three dimensional visualization by photon counting computational Integral Imaging. <i>Optics Express</i> , 2008, 16, 4426.	1.7	133
32	Denoising for 3-D Photon-Limited Imaging Data Using Nonseparable Filterbanks. <i>IEEE Transactions on Image Processing</i> , 2008, 17, 2312-2323.	6.0	9
33	Method of Selection of Poisson-Based Wavelet Shrinkage Sites. <i>Transportation Research Record</i> , 2009, 2136, 20-27.	1.0	0
34	SkellamShrink: Poisson intensity estimation for vector-valued data. , 2009, , .		7
35	Fast Haar-wavelet denoising of multidimensional fluorescence microscopy data. , 2009, , .		17
36	Poisson-Haar Transform: A nonlinear multiscale representation for photon-limited image denoising. , 2009, , .		0
37	Poisson denoising on the sphere. <i>Proceedings of SPIE</i> , 2009, , .	0.8	0
38	Poisson noise removal in multivariate count data. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
39	Efficient multivariate Skellam shrinkage for denoising photon-limited image data: An Empirical Bayes approach. , 2009, , .		11
40	Bayesian Inference on Multiscale Models for Poisson Intensity Estimation: Applications to Photon-Limited Image Denoising. IEEE Transactions on Image Processing, 2009, 18, 1724-1741.	6.0	62
41	Nonparametric regression in exponential families. Annals of Statistics, 2010, 38, .	1.4	28
42	Fast interscale wavelet denoising of Poisson-corrupted images. Signal Processing, 2010, 90, 415-427.	2.1	191
43	Multiscale Statistical Models for Hierarchical Spatial Aggregation. Geographical Analysis, 2001, 33, 95-118.	1.9	43
44	Poisson denoising on the sphere: application to the Fermi gamma ray space telescope. Astronomy and Astrophysics, 2010, 517, A26.	2.1	22
45	Undecimated haar thresholding for poisson intensity estimation. , 2010, , .		5
46	Multiscale Photon-Limited Spectral Image Reconstruction. SIAM Journal on Imaging Sciences, 2010, 3, 619-645.	1.3	23
47	Estimating Software Intensity Function via Multiscale Analysis and Its Application to Reliability Assessment. , 2011, , .		5
48	Bayesian Smoothing of Photon-Limited Images with Applications in Astronomy. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2011, 73, 579-599.	1.1	5
49	Robust Wavelet Shrinkage Estimation without Data Transform for Software Reliability Assessment. , 2012, , .		4
50	Multi-scale stochastic simulation with a wavelet-based approach. Computers and Geosciences, 2012, 45, 177-189.	2.0	21
51	Poisson image denoising using fast discrete curvelet transform and wave atom. Signal Processing, 2012, 92, 2002-2017.	2.1	19
52	Skellam Shrinkage: Wavelet-Based Intensity Estimation for Inhomogeneous Poisson Data. IEEE Transactions on Information Theory, 2012, 58, 1080-1093.	1.5	35
53	Estimating Software Intensity Function Based on Translation-Invariant Poisson Smoothing Approach. IEEE Transactions on Reliability, 2013, 62, 930-945.	3.5	8
54	Denoising three-dimensional and colored images using a Bayesian multi-scale model for photon counts. Signal Processing, 2013, 93, 2906-2914.	2.1	4
55	Reducing Poisson noise and baseline drift in x-ray spectral images with bootstrap Poisson regression and robust nonparametric regression. Physics in Medicine and Biology, 2013, 58, 1739-1758.	1.6	11
56	Image denoising using wavelet transform and wiener filter based on log energy distribution over Poisson-Gaussian noise model. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
58	Survival analysis with electronic health record data: Experiments with chronic kidney disease. <i>Statistical Analysis and Data Mining</i> , 2014, 7, 385-403.	1.4	35
59	Bayesian Multiscale Smoothing of Gaussian Noised Images. <i>Bayesian Analysis</i> , 2014, 9, .	1.6	5
60	Wavelet-based genetic association analysis of functional phenotypes arising from high-throughput sequencing assays. <i>Annals of Applied Statistics</i> , 2015, 9, 655-686.	0.5	22
61	Nonparametric empirical Bayes estimation for multiplicative multiscale innovation in photon-limited imaging. , 2015, , .		2
62	Fast Translation Invariant Multiscale Image Denoising. <i>IEEE Transactions on Image Processing</i> , 2015, 24, 4876-4887.	6.0	6
63	Spatiotemporal Model Fusion: Multiscale Modelling of Civil Unrest. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2016, 65, 529-545.	0.5	5
64	Towards Optimal Denoising of Image Contrast. <i>IEEE Transactions on Image Processing</i> , 2018, 27, 3446-3458.	6.0	7
65	A Feature based Reconstruction Model for Fluorescence Microscopy Image Denoising. <i>Scientific Reports</i> , 2019, 9, 7725.	1.6	10
66	Low Rank Poisson Denoising (LRPD): A Low Rank Approach Using Split Bregman Algorithm for Poisson Noise Removal From Images. , 2019, , .		3
67	Corrupted Reference Image Quality Assessment of Denoised Images. <i>IEEE Transactions on Image Processing</i> , 2019, 28, 1732-1747.	6.0	17
69	Deconvolution in high-energy astrophysics: science, instrumentation, and methods. <i>Bayesian Analysis</i> , 2006, 1, .	1.6	4
70	Data-driven wavelet-Fisz methodology for nonparametric function estimation. <i>Electronic Journal of Statistics</i> , 2008, 2, .	0.4	12
71	Photon-limited single-pixel imaging. <i>Optics Express</i> , 2020, 28, 8132.	1.7	28
72	msCentipede: Modeling Heterogeneity across Genomic Sites and Replicates Improves Accuracy in the Inference of Transcription Factor Binding. <i>PLoS ONE</i> , 2015, 10, e0138030.	1.1	37
73	Likelihood ratio Haar variance stabilization and normalization for Poisson and other non-Gaussian noise removal. <i>Statistica Sinica</i> , 2018, , .	0.2	1
74	Multiscale Statistical Models. <i>Lecture Notes in Statistics</i> , 2003, , 249-259.	0.1	0
75	Software Failure Time Data Analysis via Wavelet-Based Approach. <i>IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences</i> , 2012, E95.A, 1490-1497.	0.2	2
76	Poisson Noise Removal in Spherical Multichannel Images: Application to Fermi Data. , 0, , .		0

#	ARTICLE	IF	CITATIONS
77	Multiple Testing Approaches for Removing Background Noise from Images. Springer Proceedings in Mathematics and Statistics, 2014, , 95-104.	0.1	1
78	Estimation of a delta-contaminated density of a random intensity of Poisson data. Electronic Journal of Statistics, 2016, 10, .	0.4	0
79	Gaussianization Machines for Non-Gaussian Function Estimation Models. Statistical Science, 2019, 34, .	1.6	1
80	Unsupervised segmentation of Poisson data. , 0, , .		1
81	3D photon counting integral imaging by using multi-level decomposition. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 1434.	0.8	6