

# Sampurna Biswas

## List of Publications by Year in descending order

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34  
papers

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citations

643344

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h-index

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g-index

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all docs

34  
docs citations

34  
times ranked

815  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational Manifold Learning From Incomplete Data: Application to Multislice Dynamic MRI. IEEE Transactions on Medical Imaging, 2022, 41, 3552-3561.	5.4	1
2	Dynamic Imaging Using a Deep Generative STORM (Gen-STORM) Model. IEEE Transactions on Medical Imaging, 2021, 40, 3102-3112.	5.4	18
3	Recovery of Surfaces and Functions in High Dimensions: Sampling Theory and Links to Neural Networks. SIAM Journal on Imaging Sciences, 2021, 14, 580-619.	1.3	3
4	Deep Tomographic Image Reconstruction: Yesterday, Today, and Tomorrow – Editorial for the 2nd Special Issue – Machine Learning for Image Reconstruction. IEEE Transactions on Medical Imaging, 2021, 40, 2956-2964.	5.4	12
5	MoDL-MUSSELS: Model-Based Deep Learning for Multishot Sensitivity-Encoded Diffusion MRI. IEEE Transactions on Medical Imaging, 2020, 39, 1268-1277.	5.4	32
6	Improved MUSSELS reconstruction for high-resolution multi-shot diffusion weighted imaging. Magnetic Resonance in Medicine, 2020, 83, 2253-2263.	1.9	19
7	Free-Breathing and Ungated Dynamic MRI Using Navigator-Less Spiral STORM. IEEE Transactions on Medical Imaging, 2020, 39, 3933-3943.	5.4	20
8	Deep Generalization of Structured Low-Rank Algorithms (Deep-SLR). IEEE Transactions on Medical Imaging, 2020, 39, 4186-4197.	5.4	27
9	Multi-Echo Recovery with Field Inhomogeneity Compensation Using Structured Low-Rank Matrix Completion. , 2020, 2020, 1074-1077.		0
10	Structured Low-Rank Algorithms: Theory, Magnetic Resonance Applications, and Links to Machine Learning. IEEE Signal Processing Magazine, 2020, 37, 54-68.	4.6	37
11	Optimized reconstructions of compressively sampled two-dimensional infrared spectra. Journal of Chemical Physics, 2019, 150, 234202.	1.2	4
12	Dynamic MRI using model-based deep learning and STORM priors: MoDL-STORM. Magnetic Resonance in Medicine, 2019, 82, 485-494.	1.9	63
13	Calibration-Free B0 Correction of EPI Data Using Structured Low Rank Matrix Recovery. IEEE Transactions on Medical Imaging, 2019, 38, 979-990.	5.4	7
14	Manifold Recovery Using Kernel Low-Rank Regularization: Application to Dynamic Imaging. IEEE Transactions on Computational Imaging, 2019, 5, 478-491.	2.6	18
15	Sampling of Planar Curves: Theory and Fast Algorithms. IEEE Transactions on Signal Processing, 2019, 67, 6455-6467.	3.2	3
16	A Generalized Structured Low-Rank Matrix Completion Algorithm for MR Image Recovery. IEEE Transactions on Medical Imaging, 2019, 38, 1841-1851.	5.4	21
17	A general algorithm for compensation of trajectory errors: Application to radial imaging. Magnetic Resonance in Medicine, 2018, 80, 1605-1613.	1.9	9
18	Convex Recovery of Continuous Domain Piecewise Constant Images From Nonuniform Fourier Samples. IEEE Transactions on Signal Processing, 2018, 66, 236-250.	3.2	28

#	ARTICLE	IF	CITATIONS
19	Model-Based Free-Breathing Cardiac MRI Reconstruction Using Deep Learned & Storm Priors: MODL-STORM. , 2018, 2018, 6533-6537.		6
20	Recovery of Noisy Points on Bandlimited Surfaces: Kernel Methods Re-Explained. , 2018, 2018, 4024-4028.		8
21	Recovery of point clouds on surfaces: Application to image reconstruction. , 2018, 2018, 1272-1275.		4
22	Novel structured low-rank algorithm to recover spatially smooth exponential image time series. , 2017, 2017, 1-4.		3
23	Subspace Aware Recovery of Low Rank and Jointly Sparse Signals. IEEE Transactions on Computational Imaging, 2017, 3, 22-35.	2.6	3
24	A Fast Algorithm for Convolutional Structured Low-Rank Matrix Recovery. IEEE Transactions on Computational Imaging, 2017, 3, 535-550.	2.6	58
25	Multi-shot sensitivity-encoded diffusion data recovery using structured low-rank matrix completion (MUSSELS). Magnetic Resonance in Medicine, 2017, 78, 494-507.	1.9	115
26	Structured low-rank recovery of piecewise constant signals with performance guarantees. , 2016, 2016, 963-967.		3
27	Off-the-Grid Recovery of Piecewise Constant Images from Few Fourier Samples. SIAM Journal on Imaging Sciences, 2016, 9, 1004-1041.	1.3	86
28	Recovery of piecewise smooth images from few fourier samples. , 2015, , .		18
29	Spark under 2-D fourier sampling. , 2015, , .		1
30	Iterative Shrinkage Algorithm for Patch-Smoothness Regularized Medical Image Recovery. IEEE Transactions on Medical Imaging, 2015, 34, 2417-2428.	5.4	18
31	Super-resolution MRI using finite rate of innovation curves. , 2015, , .		23
32	Coprime conditions for Fourier sampling for sparse recovery. , 2014, , .		6
33	MULTICHANNEL ESTIMATION OF COIL SENSITIVITIES IN PARALLEL MRI. , 2007, , .		16
34	Efficient Energies and Algorithms for Parametric Snakes. IEEE Transactions on Image Processing, 2004, 13, 1231-1244.	6.0	164