

# Brejesh Lall

## List of Publications by Year in Descending Order

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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.

77  
papers

240  
citations

7  
h-index

11  
g-index

103  
ext. papers

363  
ext. citations

3.7  
avg, IF

3.99  
L-index

#	Paper	IF	Citations
77	Projective Fisher Information for Natural Gradient Descent. <i>IEEE Transactions on Artificial Intelligence</i> , <b>2022</b> , 1-1	4.7	
76	Zero-shot Normalization Driven Multi-Speaker Text to Speech Synthesis. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , <b>2022</b> , 1-1	3.6	
75	Prediction of COVID-19 Cases and Attribution to Various Factors Across Different Geographical Regions. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 263-271	0.4	
74	. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	1
73	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 1-1	3.7	
72	Statistical Characterization of the Angle of Arrival in an Underwater Channel due to scattering from the sea surface modeled as Sum of Sinusoids. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	
71	Statistical Modeling and Performance Analysis of Cooperative Communication in Frequency-Selective Underwater Acoustic Channel Using Vector Sensor. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 7367-7379	4	1
70	Pedestrian Behavior Analytics on Dashcam Videos in Chaotic Environments. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 15660-15669	4	
69	Multimodal Sensor Fusion Using Symmetric Skip Autoencoder Via an Adversarial Regulariser. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2021</b> , 14, 1146-1157	4.7	1
68	A Data-Driven Framework for Deploying Sensors in Environment Sensing Application. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 4055-4064	11.9	1
67	A Stochastic Model for Characterizing Fluctuations in Chemical Sensing. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 1938-1951	4.8	1
66	A Recursive Method For Estimating Missing Data in Spatio-Temporal Applications. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	0
65	ADAADepth: Adapting Data Augmentation and Attention for Self-Supervised Monocular Depth Estimation. <i>IEEE Robotics and Automation Letters</i> , <b>2021</b> , 6, 7791-7798	4.2	3
64	DFTNet: Deep Fish Tracker With Attention Mechanism in Unconstrained Marine Environments. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	3
63	Evolving Air Pollution Monitoring Systems for Green 5G: From Cloud to Edge <b>2020</b> ,		1
62	Modeling and prediction of COVID-19 pandemic using Gaussian mixture model. <i>Chaos, Solitons and Fractals</i> , <b>2020</b> , 138, 110023	9.3	47
61	A Novel Method for Removing Baseline Drifts in Multivariate Chemical Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7306-7316	5.2	10

60	Analysis of Underwater Acoustic Channel based on Angle of Arrival Distribution <b>2020</b> ,		2
59	Theoretical Characterization of Deep Neural Networks. <i>Studies in Computational Intelligence</i> , <b>2020</b> , 25-63.8		
58	Angle of Arrival Distribution in an Underwater Acoustic Communication Channel With Incoherent Scattering. <i>IEEE Access</i> , <b>2020</b> , 8, 133204-133211	3.5	5
57	Assessment of Impact of Beamwidth of Directional Antennas on Successful Transmissions in mmWave Adhoc 5G Networks. <i>IETE Journal of Research</i> , <b>2020</b> , 1-8	0.9	
56	A Novel Solution to Prevent Diesel Pilferage at Telecom Tower Site. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 89-99	5.2	
55	Riemannian Curvature of Deep Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 1410-1416	10.3	4
54	A Novel Thresholding Methodology Using WSI EMD and Adaptive Homomorphic Filter. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 590-594	3.5	
53	Deep Convolutional Neural Networks Based Framework for Estimation of Stomata Density and Structure from Microscopic Images. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 412-423	0.9	6
52	Analysis of Signals via Non-Maximally Decimated Non-Uniform Filter Banks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2019</b> , 66, 3882-3895	3.9	2
51	Estimation of Source Wavelet From Seismic Traces Using Groebner Bases. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2019</b> , 57, 6282-6291	8.1	0
50	Memorability-based image compression. <i>IET Image Processing</i> , <b>2019</b> , 13, 1490-1501	1.7	1
49	UnDispNet: Unsupervised Learning for Multi-Stage Monocular Depth Prediction <b>2019</b> ,		1
48	Plants Stress Response Detection by Selecting Minimal Bands of Hyperspectral Images <b>2019</b> ,		1
47	. <i>IEEE Transactions on Molecular, Biological, and Multi-Scale Communications</i> , <b>2019</b> , 5, 222-232	2.3	3
46	Performance analysis of diffusive molecular timing channels. <i>IET Communications</i> , <b>2019</b> , 13, 3059-3067	1.3	7
45	Molecular Communication: The First Arrival Position Channel. <i>IEEE Wireless Communications Letters</i> , <b>2019</b> , 8, 508-511	5.9	4
44	Assessing the correlation of genotypic and phenotypic responses of indica rice varieties under drought stress. <i>Plant Physiology and Biochemistry</i> , <b>2018</b> , 127, 343-354	5.4	7
43	Nrityantar <b>2018</b> ,		3

42	Clustering short temporal behaviour sequences for customer segmentation using LDA. <i>Expert Systems</i> , <b>2018</b> , 35, e12250	2.1	4
41	Characterizing Empirical Mode Decomposition Algorithm Using Signal Processing Techniques. <i>Circuits, Systems, and Signal Processing</i> , <b>2018</b> , 37, 2969-2996	2.2	1
40	Denosing of pre-stack seismic data using subspace estimation methods. <i>IET Signal Processing</i> , <b>2018</b> , 12, 992-999	1.7	2
39	Automatic Quantification of Stomata for High-Throughput Plant Phenotyping <b>2018</b> ,		2
38	A Novel Hybrid Kinect-Variety-Based High-Quality Multiview Rendering Scheme for Glass-Free 3D Displays. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2017</b> , 27, 2098-2117	6.4	3
37	Learning effective connectivity from fMRI using autoregressive hidden Markov model with missing data. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 278, 87-100	3	12
36	The dynamic programming high-order Dynamic Bayesian Networks learning for identifying effective connectivity in human brain from fMRI. <i>Journal of Neuroscience Methods</i> , <b>2017</b> , 285, 33-44	3	5
35	Object Classification using Ensemble of Local and Deep Features <b>2017</b> ,		3
34	Novel methods for Implementation of Efficient Median Filter <b>2017</b> ,		3
33	Phenotyping of xylem vessels for drought stress analysis in rice <b>2017</b> ,		4
32	Incremental Learning of Non-stationary Temporal Causal Networks for Telecommunication Domain. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 501-508	0.9	
31	Optic Disc Detection Using Vessel Characteristics and Disc Features <b>2017</b> ,		3
30	Deep learning based frameworks for image super-resolution and noise-resilient super-resolution <b>2017</b> ,		5
29	Brain-Inspired Machine Intelligence for Image Analysis: Convolutional Neural Networks <b>2017</b> , 127-163		1
28	A Noise-Resilient Super-Resolution Framework to Boost OCR Performance <b>2017</b> ,		4
27	Drought Stress Classification Using 3D Plant Models <b>2017</b> ,		8
26	Extraction of Phenotypic Traits for Drought Stress Study Using Hyperspectral Images. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 608-614	0.9	0
25	Space-Time Super-Resolution Using Deep Learning Based Framework. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 582-590	0.9	3

24	Image Annotation Using Latent Components and Transmedia Association. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 493-500	0.9	0
23	Adaptive image compression using saliency and KAZE features <b>2016</b> ,		4
22	Linear in the parameter model for Homomorphic filter: Volterra series based approach <b>2016</b> ,		0
21	Salient keypoint selection for object representation <b>2016</b> ,		1
20	A novel method for low power hand gesture recognition in smart consumer applications <b>2016</b> ,		1
19	Analysis of Optimal Carrier Sensing Range in Wireless Ad Hoc Networks with Order Dependent Capture Capability. <i>Wireless Personal Communications</i> , <b>2015</b> , 81, 445-472	1.9	1
18	imPlag: Detecting image plagiarism using hierarchical near duplicate retrieval <b>2015</b> ,		3
17	Automated ball tracking in tennis videos <b>2015</b> ,		2
16	Design and analysis of matrix Wiener synthesis filter for multirate filter bank. <i>Signal Processing</i> , <b>2014</b> , 102, 256-264	4.4	4
15	Effect of Molecular Noise in Diffusion-Based Molecular Communication. <i>IEEE Wireless Communications Letters</i> , <b>2014</b> , 3, 489-492	5.9	8
14	Detecting and Correlating Video-Based Event Patterns: An Ontology Driven Approach <b>2014</b> ,		1
13	Content-aware seamless stereoscopic 3D compositing <b>2014</b> ,		2
12	Kinect-Variety Fusion: A Novel Hybrid Approach for Artifacts-Free 3DTV Content Generation <b>2014</b> ,		4
11	Improving Collaborative Filtering Based Recommenders Using Topic Modelling <b>2014</b> ,		7
10	Dynamic texture synthesis for video compression <b>2013</b> ,		1
9	Extending MOWL for Event Representation (E-MOWL) <b>2013</b> ,		2
8	Matrix adaptive synthesis filter for uniform filter bank <b>2013</b> ,		1
7	Parameterized variety for multi-view multi-exposure image synthesis and high dynamic range stereo reconstruction <b>2012</b> ,		1

6	Image Analogy Based Document Image Compression <b>2011,</b>	1
5	Cyclostationary signals in multirate linear systems <b>2010,</b>	3
4	IIR deconvolution from noisy observations using Kalman filtering <b>2010,</b>	1
3	Reconsideration of carrier sensing range for wireless ad hoc networks <b>2009,</b>	1
2	Issues in the Implementation of General Dual-Rate Systems <b>2009,</b>	1
1	Parametric Video Compression Scheme Using AR Based Texture Synthesis <b>2008,</b>	5