

# Fabio M. Bayer

## List of Publications by Citations

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76  
papers

899  
citations

16  
h-index

26  
g-index

90  
ext. papers

1,167  
ext. citations

2.7  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
76	. <i>IEEE Signal Processing Letters</i> , <b>2011</b> , 18, 579-582	3.2	97
75	Improved 8-Point Approximate DCT for Image and Video Compression Requiring Only 14 Additions. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2014</b> , 61, 1727-1740	3.9	73
74	DCT-like transform for image compression requires 14 additions only. <i>Electronics Letters</i> , <b>2012</b> , 48, 919	1.1	66
73	Low-complexity 8-point DCT approximations based on integer functions. <i>Signal Processing</i> , <b>2014</b> , 99, 201-214	4.4	47
72	An iterative wavelet threshold for signal denoising. <i>Signal Processing</i> , <b>2019</b> , 162, 10-20	4.4	44
71	Low-Power VLSI Architectures for DCT/DWT: Precision vs Approximation for HD Video, Biomedical, and Smart Antenna Applications. <i>IEEE Circuits and Systems Magazine</i> , <b>2015</b> , 15, 25-47	3.2	33
70	Model selection criteria in beta regression with varying dispersion. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2017</b> , 46, 729-746	0.6	28
69	Low-Complexity Image and Video Coding Based on an Approximate Discrete Tchebichef Transform. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2017</b> , 27, 1066-1076	6.4	27
68	Multiplier-free DCT approximations for RF multi-beam digital aperture-array space imaging and directional sensing. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 114003	2	26
67	A class of DCT approximations based on the Feigl-Winograd algorithm. <i>Signal Processing</i> , <b>2015</b> , 113, 38-51	4.4	24
66	A digital hardware fast algorithm and FPGA-based prototype for a novel 16-point approximate DCT for image compression applications. <i>Measurement Science and Technology</i> , <b>2012</b> , 23, 114010	2	23
65	Kumaraswamy autoregressive moving average models for double bounded environmental data. <i>Journal of Hydrology</i> , <b>2017</b> , 555, 385-396	6	21
64	Multiplierless approximate 4-point DCT VLSI architectures for transform block coding. <i>Electronics Letters</i> , <b>2013</b> , 49, 1532-1534	1.1	19
63	An orthogonal 16-point approximate DCT for image and video compression. <i>Multidimensional Systems and Signal Processing</i> , <b>2016</b> , 27, 87-104	1.8	18
62	Low-complexity 8-point DCT approximation based on angle similarity for image and video coding. <i>Multidimensional Systems and Signal Processing</i> , <b>2019</b> , 30, 1363-1394	1.8	17
61	Bartlett corrections in beta regression models. <i>Journal of Statistical Planning and Inference</i> , <b>2013</b> , 143, 531-547	0.8	17
60	Bootstrap-based model selection criteria for beta regressions. <i>Test</i> , <b>2015</b> , 24, 776-795	1.1	15

59	A Discrete Tchebichef Transform Approximation for Image and Video Coding. <i>IEEE Signal Processing Letters</i> , <b>2015</b> , 22, 1137-1141	3.2	15
58	Image Compression via a Fast DCT Approximation. <i>IEEE Latin America Transactions</i> , <b>2010</b> , 8, 708-713	0.7	15
57	A multiplierless pruned DCT-like transformation for image and video compression that requires ten additions only. <i>Journal of Real-Time Image Processing</i> , <b>2016</b> , 12, 247-255	1.9	14
56	Low-Complexity Multidimensional DCT Approximations for High-Order Tensor Data Decorrelation. <i>IEEE Transactions on Image Processing</i> , <b>2017</b> , 26, 2296-2310	8.7	14
55	Multiplierless 16-point DCT approximation for low-complexity image and video coding. <i>Signal, Image and Video Processing</i> , <b>2017</b> , 11, 227-233	1.6	13
54	A multiplication-free digital architecture for 16×16 2-D DCT/DST transform for HEVC <b>2012</b> ,		13
53	Energy-Efficient 8-Point DCT Approximations: Theory and Hardware Architectures. <i>Circuits, Systems, and Signal Processing</i> , <b>2016</b> , 35, 4009-4029	2.2	12
52	Multi-beam RF aperture using multiplierless FFT approximation. <i>Electronics Letters</i> , <b>2014</b> , 50, 1788-1790	1.1	12
51	Beta regression control chart for monitoring fractions and proportions. <i>Computers and Industrial Engineering</i> , <b>2018</b> , 119, 416-426	6.4	11
50	Bootstrap Pettitt test for detecting change points in hydroclimatological data: case study of Itaipu Hydroelectric Plant, Brazil. <i>Hydrological Sciences Journal</i> , <b>2019</b> , 64, 1312-1326	3.5	10
49	Low-complexity pruned 8-point DCT approximations for image encoding <b>2015</b> ,		9
48	Beta autoregressive fractionally integrated moving average models. <i>Journal of Statistical Planning and Inference</i> , <b>2019</b> , 200, 196-212	0.8	9
47	Modeling the Temporal Population Distribution of <i>Aedes aegypti</i> Mosquito Using Big Earth Observation Data. <i>IEEE Access</i> , <b>2020</b> , 8, 14182-14194	3.5	8
46	Variable dispersion beta regressions with parametric link functions. <i>Statistical Papers</i> , <b>2019</b> , 60, 1541-1567		8
45	Beta seasonal autoregressive moving average models. <i>Journal of Statistical Computation and Simulation</i> , <b>2018</b> , 88, 2961-2981	0.9	8
44	. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2019</b> , 16, 1660-1664	4.1	7
43	Inflated beta control chart for monitoring double bounded processes. <i>Computers and Industrial Engineering</i> , <b>2019</b> , 136, 265-276	6.4	7
42	Multibeam Digital Array Receiver Using a 16-Point Multiplierless DFT Approximation. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2019</b> , 67, 925-933	4.9	7

41	Multi-beam 4 GHz microwave apertures using current-mode DFT approximation on 65 nm CMOS <b>2015</b> ,		6
40	A Multiparametric Class of Low-complexity Transforms for Image and Video Coding. <i>Signal Processing</i> , <b>2020</b> , 176, 107685	4.4	6
39	Kumaraswamy regression model with Aranda-Ordaz link function. <i>Test</i> , <b>2020</b> , 29, 1051-1071	1.1	6
38	Pruned Discrete Tchebichef Transform Approximation for Image Compression. <i>Circuits, Systems, and Signal Processing</i> , <b>2018</b> , 37, 4363-4383	2.2	6
37	Modelagem e Previsão de Vazões Mensais do Rio Potiribu Utilizando Modelos de Séries Temporais. <i>Revista Brasileira De Recursos Hidricos</i> , <b>2012</b> , 17, 229-239	1.2	6
36	Goodness-of-fit tests for ARMA hydrological time series modeling. <i>Environmetrics</i> , <b>2020</b> , 31, e2607	1.3	6
35	JPEG quantisation requires bit-shifts only. <i>Electronics Letters</i> , <b>2017</b> , 53, 588-590	1.1	5
34	Multi-beam receiver apertures using multiplierless 8-point approximate DFT <b>2015</b> ,		5
33	Bootstrap-based inferential improvements in beta autoregressive moving average model. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2018</b> , 47, 977-996	0.6	5
32	DCT approximations based on Chen's factorization. <i>Signal Processing: Image Communication</i> , <b>2017</b> , 58, 14-23	2.8	5
31	A Change Detection Algorithm for Sar Images Based on Logistic Regression <b>2019</b> ,		5
30	Fast computation of residual complexity image similarity metric using low-complexity transforms. <i>IET Image Processing</i> , <b>2015</b> , 9, 699-708	1.7	4
29	Fast Radix-32 Approximate DFTs for 1024-Beam Digital RF Beamforming. <i>IEEE Access</i> , <b>2020</b> , 8, 96613-96627	3.7	4
28	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2020</b> , 56, 3645-3654	3.7	4
27	Kumaraswamy control chart for monitoring double bounded environmental data. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2019</b> , 1-16	0.6	3
26	Towards a Low-SWaP 1024-Beam Digital Array: A 32-Beam Subsystem at 5.8 GHz. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 900-912	4.9	3
25	Wavelength-Resolution SAR Ground Scene Prediction Based on Image Stack. <i>Sensors</i> , <b>2020</b> , 20,	3.8	3
24	Bootstrap Bartlett correction in inflated beta regression. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>2017</b> , 46, 2865-2879	0.6	2

23	Fast Algorithms and Architectures for 8-Point DST-II/DST-VII Approximations. <i>Journal of Circuits, Systems and Computers</i> , <b>2017</b> , 26, 1750045	0.9	2
22	Autoregressive model for multi-pass SAR change detection based on image stacks <b>2018</b> ,		2
21	Process monitoring using inflated beta regression control chart. <i>PLoS ONE</i> , <b>2020</b> , 15, e0236756	3.7	2
20	Improved testing inferences for beta regressions with parametric mean link function. <i>AStA Advances in Statistical Analysis</i> , <b>2020</b> , 104, 687-717	1	2
19	Signal detection and inference based on the beta binomial autoregressive moving average model <b>2021</b> , 109, 102911		2
18	Low-Complexity Loeffler DCT Approximations for Image and Video Coding. <i>Journal of Low Power Electronics and Applications</i> , <b>2018</b> , 8, 46	1.7	2
17	On bootstrap testing inference in cure rate models. <i>Journal of Statistical Computation and Simulation</i> , <b>2018</b> , 88, 3437-3454	0.9	2
16	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 4989-4999	8.1	1
15	A CFAR optimization for low frequency UWB SAR change detection algorithms <b>2017</b> ,		1
14	PREVISÃO DA UMIDADE RELATIVA DO AR DE BRASÍLIA POR MEIO DO MODELO BETA AUTORREGRESSIVO DE MÊSES MÊSES. <i>Revista Brasileira De Meteorologia</i> , <b>2015</b> , 30, 319-326	0.4	1
13	Modelos univariados de séries temporais para previsão das temperaturas médias mensais de Erechim, RS. <i>Revista Brasileira De Engenharia Agrícola E Ambiental</i> , <b>2012</b> , 16, 1321-1329	0.9	1
12	A Class of Low-Complexity DCT-like Transforms for Image and Video Coding. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2021</b> , 1-1	6.4	1
11	Low-complexity rounded KLT approximation for image compression. <i>Journal of Real-Time Image Processing</i> , 1	1.9	1
10	Modified Kumaraswamy distributions for double bounded hydro-environmental data. <i>Journal of Hydrology</i> , <b>2021</b> , 603, 127021	6	1
9	. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2020</b> , 1-4	4.1	1
8	Inflated Kumaraswamy regressions with application to water supply and sanitation in Brazil. <i>Statistica Neerlandica</i> ,	0.9	1
7	A 3-D Spatiotemporal Model for Remote Sensing Data Cubes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 59, 1082-1093	8.1	1
6	Low-complexity three-dimensional discrete Hartley transform approximations for medical image compression. <i>Computers in Biology and Medicine</i> , <b>2021</b> , 139, 105018	7	0

5	Data-independent low-complexity KLT approximations for image and video coding. <i>Signal Processing: Image Communication</i> , <b>2022</b> , 101, 116585	2.8	o
4	Control chart to monitor circular data. <i>Quality and Reliability Engineering International</i> , <b>2021</b> , 37, 966-983	3.6	o
3	2-D Rayleigh autoregressive moving average model for SAR image modeling. <i>Computational Statistics and Data Analysis</i> , <b>2022</b> , 171, 107453	1.6	o
2	Robust Rayleigh Regression Method for SAR Image Processing in Presence of Outliers. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-12	8.1	
1	Prediction intervals in the beta autoregressive moving average model. <i>Communications in Statistics Part B: Simulation and Computation</i> , 1-22	0.6	