Fabio M. Bayer

List of Publications by Year in Descending Order

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	Data-independent low-complexity KLT approximations for image and video coding. *Signal Processing: Image Communication*, **2022**, 101, 116585	2.8	0
75	2-D Rayleigh autoregressive moving average model for SAR image modeling. *Computational Statistics and Data Analysis*, **2022**, 171, 107453	1.6	0
74	Low-complexity three-dimensional discrete Hartley transform approximations for medical image compression. *Computers in Biology and Medicine*, **2021**, 139, 105018	7	0
73	A Class of Low-Complexity DCT-like Transforms for Image and Video Coding. *IEEE Transactions on Circuits and Systems for Video Technology*, **2021**, 1-1	6.4	1
72	Modified Kumaraswamy distributions for double bounded hydro-environmental data. *Journal of Hydrology*, **2021**, 603, 127021	6	1
71	A 3-D Spatiotemporal Model for Remote Sensing Data Cubes. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 59, 1082-1093	8.1	1
70	Control chart to monitor circular data. *Quality and Reliability Engineering International*, **2021**, 37, 966-983	2.6	0
69	Signal detection and inference based on the beta binomial autoregressive moving average model **2021**, 109, 102911		2
68	Robust Rayleigh Regression Method for SAR Image Processing in Presence of Outliers. *IEEE Transactions on Geoscience and Remote Sensing*, **2021**, 1-12	8.1	
67	Fast Radix-32 Approximate DFTs for 1024-Beam Digital RF Beamforming. *IEEE Access*, **2020**, 8, 96613-96627	3.7	4
66	A Multiparametric Class of Low-complexity Transforms for Image and Video Coding. *Signal Processing*, **2020**, 176, 107685	4.4	6
65	. *IEEE Transactions on Aerospace and Electronic Systems*, **2020**, 56, 3645-3654	3.7	4
64	. *IEEE Transactions on Geoscience and Remote Sensing*, **2020**, 58, 4989-4999	8.1	1
63	Kumaraswamy regression model with Aranda-Ordaz link function. *Test*, **2020**, 29, 1051-1071	1.1	6
62	Modeling the Temporal Population Distribution of $Ae.~aegypti$ Mosquito Using Big Earth Observation Data. *IEEE Access*, **2020**, 8, 14182-14194	3.5	8
61	Goodness-of-fit tests for ARMA hydrological time series modeling. *Environmetrics*, **2020**, 31, e2607	1.3	6
60	Process monitoring using inflated beta regression control chart. *PLoS ONE*, **2020**, 15, e0236756	3.7	2

59	Improved testing inferences for beta regressions with parametric mean link function. *AStA Advances in Statistical Analysis*, **2020**, 104, 687-717	1	2
58	. *IEEE Geoscience and Remote Sensing Letters*, **2020**, 1-4	4.1	1
57	Towards a Low-SWaP 1024-Beam Digital Array: A 32-Beam Subsystem at 5.8 GHz. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 900-912	4.9	3
56	Wavelength-Resolution SAR Ground Scene Prediction Based on Image Stack. *Sensors*, **2020**, 20,	3.8	3
55	Bootstrap Pettitt test for detecting change points in hydroclimatological data: case study of Itaipu Hydroelectric Plant, Brazil. *Hydrological Sciences Journal*, **2019**, 64, 1312-1326	3.5	10
54	. *IEEE Geoscience and Remote Sensing Letters*, **2019**, 16, 1660-1664	4.1	7
53	An iterative wavelet threshold for signal denoising. *Signal Processing*, **2019**, 162, 10-20	4.4	44
52	Low-complexity 8-point DCT approximation based on angle similarity for image and video coding. *Multidimensional Systems and Signal Processing*, **2019**, 30, 1363-1394	1.8	17
51	Kumaraswamy control chart for monitoring double bounded environmental data. *Communications in Statistics Part B: Simulation and Computation*, **2019**, 1-16	0.6	3
50	Inflated beta control chart for monitoring double bounded processes. *Computers and Industrial Engineering*, **2019**, 136, 265-276	6.4	7
49	A Change Detection Algorithm for Sar Images Based on Logistic Regression **2019**,		5
48	Multibeam Digital Array Receiver Using a 16-Point Multiplierless DFT Approximation. *IEEE Transactions on Antennas and Propagation*, **2019**, 67, 925-933	4.9	7
47	Beta autoregressive fractionally integrated moving average models. *Journal of Statistical Planning and Inference*, **2019**, 200, 196-212	0.8	9
46	Variable dispersion beta regressions with parametric link functions. *Statistical Papers*, **2019**, 60, 1541-1567	1	8
45	Beta regression control chart for monitoring fractions and proportions. *Computers and Industrial Engineering*, **2018**, 119, 416-426	6.4	11
44	Pruned Discrete Tchebichef Transform Approximation for Image Compression. *Circuits, Systems, and Signal Processing*, **2018**, 37, 4363-4383	2.2	6
43	Bootstrap-based inferential improvements in beta autoregressive moving average model. *Communications in Statistics Part B: Simulation and Computation*, **2018**, 47, 977-996	0.6	5
42	Autoregressive model for multi-pass SAR change detection based on image stacks **2018**,		2

41	Low-Complexity Loeffler DCT Approximations for Image and Video Coding. *Journal of Low Power Electronics and Applications*, **2018**, 8, 46	1.7	2
40	On bootstrap testing inference in cure rate models. *Journal of Statistical Computation and Simulation*, **2018**, 88, 3437-3454	0.9	2
39	Beta seasonal autoregressive moving average models. *Journal of Statistical Computation and Simulation*, **2018**, 88, 2961-2981	0.9	8
38	Model selection criteria in beta regression with varying dispersion. *Communications in Statistics Part B: Simulation and Computation*, **2017**, 46, 729-746	0.6	28
37	Low-Complexity Image and Video Coding Based on an Approximate Discrete Tchebichef Transform. *IEEE Transactions on Circuits and Systems for Video Technology*, **2017**, 27, 1066-1076	6.4	27
36	Bootstrap Bartlett correction in inflated beta regression. *Communications in Statistics Part B: Simulation and Computation*, **2017**, 46, 2865-2879	0.6	2
35	Low-Complexity Multidimensional DCT Approximations for High-Order Tensor Data Decorrelation. *IEEE Transactions on Image Processing*, **2017**, 26, 2296-2310	8.7	14
34	JPEG quantisation requires bit-shifts only. *Electronics Letters*, **2017**, 53, 588-590	1.1	5
33	Kumaraswamy autoregressive moving average models for double bounded environmental data. *Journal of Hydrology*, **2017**, 555, 385-396	6	21
32	DCT approximations based on Chen factorization. *Signal Processing: Image Communication*, **2017**, 58, 14-23	2.8	5
31	Fast Algorithms and Architectures for 8-Point DST-II/DST-VII Approximations. *Journal of Circuits, Systems and Computers*, **2017**, 26, 1750045	0.9	2
30	Multiplierless 16-point DCT approximation for low-complexity image and video coding. *Signal, Image and Video Processing*, **2017**, 11, 227-233	1.6	13
29	A CFAR optimization for low frequency UWB SAR change detection algorithms **2017**,		1
28	A multiplierless pruned DCT-like transformation for image and video compression that requires ten additions only. *Journal of Real-Time Image Processing*, **2016**, 12, 247-255	1.9	14
27	An orthogonal 16-point approximate DCT for image and video compression. *Multidimensional Systems and Signal Processing*, **2016**, 27, 87-104	1.8	18
26	Energy-Efficient 8-Point DCT Approximations: Theory and Hardware Architectures. *Circuits, Systems, and Signal Processing*, **2016**, 35, 4009-4029	2.2	12
25	Low-Power VLSI Architectures for DCT/DWT: Precision vs Approximation for HD Video, Biomedical, and Smart Antenna Applications. *IEEE Circuits and Systems Magazine*, **2015**, 15, 25-47	3.2	33
24	Bootstrap-based model selection criteria for beta regressions. *Test*, **2015**, 24, 776-795	1.1	15

23	Multi-beam 4 GHz microwave apertures using current-mode DFT approximation on 65 nm CMOS **2015**,		6
22	Multi-beam receiver apertures using multiplierless 8-point approximate DFT **2015**,		5
21	Low-complexity pruned 8-point DCT approximations for image encoding **2015**,		9
20	Fast computation of residual complexity image similarity metric using low-complexity transforms. *IET Image Processing*, **2015**, 9, 699-708	1.7	4
19	PREVIS□□O DA UMIDADE RELATIVA DO AR DE BRAS□□LIA POR MEIO DO MODELO BETA AUTORREGRESSIVO DE M□□DIAS M□□VEIS. *Revista Brasileira De Meteorologia*, **2015**, 30, 319-326	0.4	1
18	A Discrete Tchebichef Transform Approximation for Image and Video Coding. *IEEE Signal Processing Letters*, **2015**, 22, 1137-1141	3.2	15
17	A class of DCT approximations based on the Feig□Winograd algorithm. *Signal Processing*, **2015**, 113, 38-51	4.4	24
16	Improved 8-Point Approximate DCT for Image and Video Compression Requiring Only 14 Additions. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2014**, 61, 1727-1740	3.9	73
15	Low-complexity 8-point DCT approximations based on integer functions. *Signal Processing*, **2014**, 99, 201-214	4.4	47
14	Multi-beam RF aperture using multiplierless FFT approximation. *Electronics Letters*, **2014**, 50, 1788-1790	1.1	12
13	Bartlett corrections in beta regression models. *Journal of Statistical Planning and Inference*, **2013**, 143, 531-547	0.8	17
12	Multiplierless approximate 4-point DCT VLSI architectures for transform block coding. *Electronics Letters*, **2013**, 49, 1532-1534	1.1	19
11	A multiplication-free digital architecture for 16□□16 2-D DCT/DST transform for HEVC **2012**,		13
10	DCT-like transform for image compression requires 14 additions only. *Electronics Letters*, **2012**, 48, 919	1.1	66
9	Multiplier-free DCT approximations for RF multi-beam digital aperture-array space imaging and directional sensing. *Measurement Science and Technology*, **2012**, 23, 114003	2	26
8	A digital hardware fast algorithm and FPGA-based prototype for a novel 16-point approximate DCT for image compression applications. *Measurement Science and Technology*, **2012**, 23, 114010	2	23
7	Modelos univariados de s□□ies temporais para previs□□o das temperaturas m□□dias mensais de Erechim, RS. *Revista Brasileira De Engenharia Agricola E Ambiental*, **2012**, 16, 1321-1329	0.9	1
6	Modelagem e Previs□□o de Vaz□□es M□□dias Mensais do Rio Potiribu Utilizando Modelos de S□□ies Temporais. *Revista Brasileira De Recursos Hidricos*, **2012**, 17, 229-239	1.2	6

5	. *IEEE Signal Processing Letters*, **2011**, 18, 579-582	3.2	97
4	Image Compression via a Fast DCT Approximation. *IEEE Latin America Transactions*, **2010**, 8, 708-713	0.7	15
3	Low-complexity rounded KLT approximation for image compression. *Journal of Real-Time Image Processing*,1	1.9	1
2	Inflated Kumaraswamy regressions with application to water supply and sanitation in Brazil. *Statistica Neerlandica*,	0.9	1
1	Prediction intervals in the beta autoregressive moving average model. *Communications in Statistics Part B: Simulation and Computation*,1-22	0.6	