

Kurt Barb

List of Publications by Citations

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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.

80
papers

700
citations

14
h-index

23
g-index

100
ext. papers

852
ext. citations

4.1
avg, IF

4.28
L-index

#	Paper	IF	Citations
80	Estimation of nonparametric noise and FRF models for multivariable systems Part I: Theory. <i>Mechanical Systems and Signal Processing</i> , 2010 , 24, 573-595	7.8	131
79	Estimation of nonparametric noise and FRF models for multivariable systems Part II: Extensions, applications. <i>Mechanical Systems and Signal Processing</i> , 2010 , 24, 596-616	7.8	69
78	Nonparametric Preprocessing in System Identification: a Powerful Tool. <i>European Journal of Control</i> , 2009 , 15, 260-274	2.5	52
77	Analyzing the Windkessel Model as a Potential Candidate for Correcting Oscillometric Blood-Pressure Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 411-418	5.2	26
76	Automatic Detection, Estimation, and Validation of Harmonic Components in Measured Power Spectra: All-in-One Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 1061-1069	5.2	20
75	Linearizing Oscillometric Blood-Pressure Measurements: (Non)Sense?. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 1267-1275	5.2	20
74	Improved (non-)parametric identification of dynamic systems excited by periodic signals. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 2683-2704	7.8	19
73	Blind Spectrum Sensing for Cognitive Radios Using Discriminant Analysis: A Novel Approach. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 2912-2921	5.2	18
72	Glucose detection in human sweat using an electronic nose. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 1462-5	0.9	17
71	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 2960-2971	5.2	16
70	Application of the Artificial Neural Network for blood pressure evaluation with smartphones 2013 ,		16
69	Using Alternating Kalman Filtering to Analyze Oscillometric Blood Pressure Waveforms. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 2621-2628	5.2	16
68	The METABANK score: A clinical tool to predict survival after stereotactic radiotherapy for oligometastatic disease. <i>Radiotherapy and Oncology</i> , 2019 , 133, 113-119	5.3	15
67	Estimating the parameters of a Rice distribution: A Bayesian approach 2009 ,		15
66	Frequency-Domain, Errors-in-Variables Estimation of Linear Dynamic Systems Using Data From Overlapping Subrecords. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008 , 57, 1529-1536	5.2	14
65	Fractional models for modeling complex linear systems under poor frequency resolution measurements 2013 , 23, 1084-1093		12
64	Cognitive Radios: Discriminant Analysis for Automatic Signal Detection in Measured Power Spectra. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 3351-3360	5.2	11

63	Wiener-Hammerstein System Identification: A Fast Approach Through Spearman Correlation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 1628-1636	5.2	10
62	Spectrum sensing through spectrum discriminator and maximum minimum eigenvalue detector: A comparative study 2012 ,		10
61	Toward a Tissue Model for Bipolar Electrosurgery: Block-Oriented Model Structure Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 460-469	5.2	9
60	Predictors of dopamine agonist resistance in prolactinoma patients. <i>BMC Endocrine Disorders</i> , 2020 , 20, 68	3.3	9
59	A Guaranteed Blind and Automatic Probability Density Estimation of Raw Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014 , 63, 2120-2128	5.2	9
58	Harmonic Sampling and Reconstruction of Wideband Undersampled Waveforms: Breaking the Code. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 2961-2969	4.1	9
57	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 301-310	5.2	9
56	Evaluation of the number of PPG harmonics to assess Smartphone effectiveness 2014 ,		8
55	Fractional-order time series models for extracting the haemodynamic response from functional magnetic resonance imaging data. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 2264-72	5	8
54	Nonlinear Induced Variance of Frequency Response Function Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 2468-2474	5.2	8
53	Logistic ordinal regression for the calibration of oscillometric blood pressure monitors. <i>Biomedical Signal Processing and Control</i> , 2014 , 11, 89-96	4.9	7
52	Functional Magnetic Resonance Imaging: An Improved Short Record Signal Model. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 1724-1731	5.2	7
51	Improving the Diagnosis of Nonfunctional Overreaching and Overtraining Syndrome. <i>Medicine and Science in Sports and Exercise</i> , 2019 , 51, 2524-2530	1.2	7
50	Fractional frequency domain identification of NaCl-glucose solutions at physiological levels. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014 , 50, 213-221	4.6	6
49	Nonparametric Probability Density Estimation via Interpolation Filtering. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 681-690	5.2	5
48	Estimating lung cancer and cardiovascular mortality in female breast cancer patients receiving radiotherapy. <i>Radiotherapy and Oncology</i> , 2020 , 152, 111-116	5.3	5
47	Measurement and characterization of glucose in NaCl aqueous solutions by electrochemical impedance spectroscopy. <i>Biomedical Signal Processing and Control</i> , 2014 , 14, 9-18	4.9	5
46	Serological profiles in nursery piglets colonized with <i>Staphylococcus aureus</i> . <i>Veterinary Research</i> , 2013 , 44, 4	3.8	5

45	Fractional models in electrical impedance spectroscopy data for glucose detection. <i>Biomedical Signal Processing and Control</i> , 2018 , 40, 180-191	4.9	4
44	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 2085-2094	5.2	4
43	Analyzing Rice distributed functional magnetic resonance imaging data: a Bayesian approach. <i>Measurement Science and Technology</i> , 2010 , 21, 115804	2	4
42	Using the best linear approximation as a first step to a new non-invasive glucose measurement 2012 ,		3
41	Improved Variance Estimates of FRF Measurements in the Presence of Nonlinear Distortions Via Overlap. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 300-309	5.2	3
40	On climate reconstruction using bivalves: three methods to interpret the chemical signature of a shell. <i>Computer Methods and Programs in Biomedicine</i> , 2011 , 104, 104-11	6.9	3
39	On Climate Reconstruction using Bivalve Shells: Three Methods to Interpret the Chemical Signature of a Shell. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 407-412		3
38	An ARMA time series approach for analyzing long memory dynamics in measurements 2016 ,		3
37	Study of Random Forest to Identify Wiener-Hammerstein System. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	3
36	Spearman correlation for initial estimation of Wiener-Hammerstein system 2018 ,		3
35	Two novel memory polynomial models for modeling of RF power amplifiers. <i>International Journal of Microwave and Wireless Technologies</i> , 2015 , 7, 19-29	0.8	2
34	Data-Driven Quality Assessment of Noisy Nonlinear Sensor and Measurement Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018 , 67, 1668-1678	5.2	2
33	Glucose characterization based on electrochemical impedance spectroscopy 2014 ,		2
32	A novel spectral subtraction technique for cognitive radios 2013 ,		2
31	Eliminating user-interaction in probability density estimation 2013 ,		2
30	A qualitative study of probability density visualization techniques in measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015 , 65, 94-111	4.6	2
29	Saving lives by integrating cognitive radios into ambulances 2012 ,		2
28	Finite Record Effects of the Errors-in-Variables Estimator for Linear Dynamic Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2011 , 60, 642-654	5.2	2

27	The Use of Nonparametric Noise Models Extracted From Overlapping Subrecords for System Identification. <i>IEEE Transactions on Signal Processing</i> , 2011 , 59, 4635-4647	4.8	2
26	An innovative oscillometric blood pressure measurement: Getting rid of the traditional envelope 2012 ,		2
25	Using Kalman filtering to analyze oscillometric blood pressure waveforms 2012 ,		2
24	Efficient use of short data records for FRF modeling by using fractional poles 2012 ,		2
23	2008 ,		2
22	Initial Estimation of Wiener-Hammerstein System with Random Forest 2019 ,		2
21	Large-Scale Regression: A Partition Analysis of the Least Squares Multisplitting. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 2635-2647	5.2	2
20	Towards solving massive regression problems: Least squares multisplitting 2017 ,		1
19	General linear models under Rician noise for fMRI data 2015 ,		1
18	Non-parametric frequency response function tissue modeling in bipolar electrosurgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6022-5	0.9	1
17	Taylor-fourier series analysis for fractional order systems 2015 ,		1
16	Adaptive noise tracking for Cognitive Radios under more realistic operation conditions 2014 ,		1
15	Cognitive radios: Discriminant analysis finds the free space 2012 ,		1
14	Using random phase multisines to perform non-invasive glucose measurements 2011 ,		1
13	Robust small sample properties for likelihood based confidence regions 2010 ,		1
12	Exploring the fractional haemodynamics in fMRI data 2011 ,		1
11	Using ANOVA in a Microwave Round-Robin Comparison. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2009 , 58, 3490-3498	5.2	1
10	An Automatic, Statistical-based Detection of Outliers in an Inter-laboratory Comparison of Nonlinear Measurements 2008 ,		1

9	Non-parametric Noise Models extracted from Overlapping Sub-records. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , 2006 ,		1
8	TaylorBourier spectra to study fractional order systems. <i>Measurement Science and Technology</i> , 2016 , 27, 065001	2	1
7	Measuring and Characterizing Nonlinear Radio-Frequency Systems 2014 , 225-254		0
6	Guest Editorial Special Issue on the 2012 IEEE International Instrumentation and Measurement Technology Conference. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013 , 62, 867-868	5.2	
5	Asymptotic properties of transfer function estimates using non-parametric noise models under relaxed assumptions. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1139-1144		
4	Bootstrapped Total Least Squares estimator using (circular) overlap for Errors-In-Variables identification. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1568-1573		
3	Parallelization of Hermitian positive definite systems of equations: A hierarchical Jacobi approach. <i>Linear Algebra and Its Applications</i> , 2022 , 639, 81-115	0.9	
2	Effect of air temperature on human births, preterm births and births associated with maternal hypertension. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021 , 1-7	2	
1	Group sequential designs for in vivo studies: Minimizing animal numbers and handling uncertainty in power analysis.. <i>Research in Veterinary Science</i> , 2022 , 145, 248-254	2.5	