JosÃ© Antonio De La O Serna

List of Publications by Year
in descending order

43 papers	1,643 citations	394421 19 h-index	361022 35 g-index
43 all docs	43 docs citations	43 times ranked	724 citing authors

#	Article	IF	Citations
1	Dynamic Phasor Estimates for Power System Oscillations. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1648-1657.	4.7	268
2	Dynamic Phasor and Frequency Estimates Through Maximally Flat Differentiators. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1803-1811.	4.7	191
3	Dynamic Harmonic Analysis Through Taylorâ€“Fourier Transform. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 804-813.	4.7	140
4	Taylorâ€“Kalmanâ€“Fourier Filters for Instantaneous Oscillating Phasor and Harmonic Estimates. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 941-951.	4.7	98
5	Instantaneous Oscillating Phasor Estimates With Taylor^K-Kalman Filters. IEEE Transactions on Power Systems, 2011, 26, 2336-2344.	6.5	92
6	Synchrophasor Estimation Using Prony's Method. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2119-2128.	4.7	91
7	Synchrophasor Measurement With Polynomial Phase-Locked-Loop Taylorâ€“Fourier Filters. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 328-337.	4.7	82
8	Improving phasor measurements under power system oscillations. IEEE Transactions on Power Systems, 2003, 18, 160-166.	6.5	71
9	EEG-Rhythm Specific Taylorâ€“Fourier Filter Bank Implemented With O-Splines for the Detection of Epilepsy Using EEG Signals. IEEE Sensors Journal, 2020, 20, 6542-6551.	4.7	60
10	Identification of Electromechanical Modes Based on the Digital Taylor-Fourier Transform. IEEE Transactions on Power Systems, 2016, 31, 206-215.	6.5	52
11	Detection of Life Threatening Ventricular Arrhythmia Using Digital Taylor Fourier Transform. Frontiers in Physiology, 2018, 9, 722.	2.8	42
12	Shanks' Method for Dynamic Phasor Estimation. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 813-819.	4.7	41
13	Polynomial Implementation of the Taylorâ€“Fourier Transform for Harmonic Analysis. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2846-2854.	4.7	41
14	A new digital filter for phasor computation. I. Theory [power system protection]. IEEE Transactions on Power Systems, 1998, 13, 1026-1031.	6.5	30
15	Taylorâ€“Fourier Analysis of Blood Pressure Oscillometric Waveforms. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2511-2518.	4.7	29
16	Analyzing Power Oscillating Signals With the O-Splines of the Discrete Taylorâ€“Fourier Transform. IEEE Transactions on Power Systems, 2018, 33, 7087-7095.	6.5	25
17	Phasor Estimation From Phasorlets. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 134-143.	4.7	21
18	Using Alternating Kalman Filtering to Analyze Oscillometric Blood Pressure Waveforms. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 2621-2628.	4.7	21

#	Article	IF	Citations
19	Dynamic Harmonic Analysis With FIR Filters Designed With O-Splines. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5092-5100.	5.4	21
20	A new digital filter for phasor computation. II. Evaluation [power system protection]. IEEE Transactions on Power Systems, 1998, 13, 1032-1037.	6.5	20
21	Maximally flat differentiators through WLS Taylor decomposition. , 2011, 21, 183-194.		20
22	Distance Relays Based on the<?Pub _newline ?>Taylorâ€“Kalman-Fourier Filter. IEEE Transactions on Power Delivery, 2016, 31, 928-935.	4.3	19
23	New family of digital filters for phasor computation [power system relay protection]. IEEE Transactions on Power Delivery, 2000, 15, 86-91.	4.3	18
24	On the use of amplitude shaping pulses as windows for harmonic analysis. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1556-1562.	4.7	17
25	Multi-dimensional ringdown modal analysis by filtering. Electric Power Systems Research, 2017, 143, 748-759.	3.6	17
26	Smart grids Part 2: Synchrophasor measurement challenges. IEEE Instrumentation and Measurement Magazine, 2015, 18, 13-16.	1.6	14
27	Reducing the Error in Phasor Estimates From Phasorlets in Fault Voltage and Current Signals. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 856-866.	4.7	13
28	Dynamic Phasor Estimates Under the Bellman's Principle of Optimality: The Taylor-LQG-Fourier Filters. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 3137-3147.	4.7	13
29	Smart grids Part 1: Instrumentation challenges. IEEE Instrumentation and Measurement Magazine, 2015, 18, 6-9.	1.6	13
30	Assessing Synchrophasor Estimates of an Event Captured by a Phasor Measurement Unit. IEEE Transactions on Power Delivery, 2021, 36, 3109-3117.	4.3	12
31	Taylorâ€“Fourier Filter-Bank Implemented With O-Splines for the Detection and Classification of Faults. IEEE Transactions on Industrial Informatics, 2021, 17, 3079-3089.	11.3	10
32	Instantaneous dynamic phasor estimates with Kalman filter. , 2010, , .		8
33	Dynamic phasor-driven digital distance relays protection. Electric Power Systems Research, 2020, 184, 106316.	3.6	8
34	Model-based synchrophasor estimation by exploiting the eigensystem realization approach. Electric Power Systems Research, 2020, 182, 106249.	3.6	6
35	Reducing the Delay of Phasor Estimates Under Power System Oscillations. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 2271-2278.	4.7	5
36	Taylor-fourier analysis of blood pressure oscillometric waveforms. , 2012, , .		4

#	Article	IF	Citations
37	Dynamic phasor estimates through maximally flat differentiators. , 2008, , .		3
38	Using Kalman filtering to analyze oscillometric blood pressure waveforms. , 2012, , .		3
39	Real-time simulation of the Prony filter for identifying low frequency oscillations in short-time. , 2018, , .		2
40	O-splines para analizar seÃ±ales de oscilaciones de potencia. Ingenierias, 2020, 23, 42-61.	0.2	1
41	Editorial: Machine Learning and Deep Learning for Physiological Signal Analysis. Frontiers in Physiology, 2022, 13, 887070.	2.8	1
42	Impedance estimation through the Taylor-Kalman-Fourier filter applied to distance relays. , 2014, , .		0
43	AnÃ¡lisis de armÃ³nicas dinÃ¡micas con filtros de respuesta impulsional finita diseÃ±ados con O-splines. Ingenierias, 2021, 24, 3-21.	0.2	0