Giuseppe Fedele

List of Publications by Year
in descending order

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92	1,014	471509	501196
papers	citations	17 h-index	28 g-index

92	92	92	669
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Frequency-Locked-Loop Filter for Biased Multi-Sinusoidal Estimation. IEEE Transactions on Signal Processing, 2014, 62, 1125-1134.	5.3	69
2	A Power Electrical Signal Tracking Strategy Based on the Modulating Functions Method. IEEE Transactions on Industrial Electronics, 2009, 56, 4079-4087.	7.9	63
3	A new method to estimate a first-order plus time delay model from step response. Journal of the Franklin Institute, 2009, 346, 1-9.	3.4	60
4	Non Adaptive Second-Order Generalized Integrator for Identification of a Biased Sinusoidal Signal. IEEE Transactions on Automatic Control, 2012, 57, 1838-1842.	5.7	58
5	On the inversion of the Vandermonde matrix. Applied Mathematics and Computation, 2006, 174, 1384-1397.	2.2	51
6	Biased Sinusoidal Disturbance Compensation With Unknown Frequency. IEEE Transactions on Automatic Control, 2013, 58, 3207-3212.	5.7	43
7	A recursive scheme for frequency estimation using the modulating functions method. Applied Mathematics and Computation, 2010, 216, 1393-1400.	2.2	32
8	Spectral Analysis of a Class of DCâ€“AC PWM Inverters by Kapteyn Series. IEEE Transactions on Power Electronics, 2010, 25, 839-849.	7.9	30
9	Periodic disturbance rejection with unknown frequency and unknown plant structure. Journal of the Franklin Institute, 2014, 351, 1074-1092.	3.4	27
10	A Kinematic Model for Swarm Finite-Time Trajectory Tracking. IEEE Transactions on Cybernetics, 2019, 49, 3806-3815.	9.5	26
11	A Prony-like method for non-uniform sampling. Signal Processing, 2007, 87, 2484-2490.	3.7	25
12	Unbiased Estimation of Sinusoidal Signal Parameters via Discrete-Time Frequency-Locked-Loop Filters. IEEE Transactions on Automatic Control, 2017, 62, 1484-1490.	5.7	25
13	An adaptive quasi-notch filter for a biased sinusoidal signal estimation. , 2011, , .		23
14	A Fractional-Order Repetitive Controller for Periodic Disturbance Rejection. IEEE Transactions on Automatic Control, 2018, 63, 1426-1433.	5.7	23
15	Obstacles Avoidance Based on Switching Potential Functions. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 387-405.	3.4	22
16	A property of the elementary symmetric functions on the frequencies of sinusoidal signals. Signal Processing, 2009, 89, 765-777.	3.7	20
17	Multi-sinusoidal signal estimation by an adaptive SOGI-filters bank. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 402-407.	0.4	19
18	Modulating functions method plus SOGI scheme for signal tracking. , 2008, , .		18

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19	Finite-time estimation of multiple exponentially-damped sinusoidal signals: A kernel-based approach. Automatica, 2019, 106, 1-7.	5.0	17
20	Non-adaptive second-order generalized integrator for sinusoidal parameters estimation. International Journal of Electrical Power and Energy Systems, 2012, 42, 314-320.	5.5	15
21	A Swarm-Based Distributed Model Predictive Control Scheme for Autonomous Vehicle Formations in Uncertain Environments. IEEE Transactions on Cybernetics, 2022, 52, 8876-8886.	9.5	15
22	Multi-Sine Fitting Algorithm enhancement for sinusoidal signal characterization. Computer Standards and Interfaces, 2012, 34, 535-540.	5.4	13
23	On the Uncertainty on the Phase of a Stable Linear System in the Periodic Disturbance Cancellation Problem. IEEE Transactions on Automatic Control, 2016, 61, 2720-2726.	5.7	13
24	Magnetometer Bias Finite-Time Estimation Using Gyroscope Data. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2926-2936.	4.7	13
25	Parameter Estimation and an Extended Predictive-Based Tuning Method for a Lab-Scale Distillation Column. ACS Omega, 2019, 4, 21230-21241.	3.5	13
26	Deadbeat Source Localization From Range-Only Measurements: A Robust Kernel-Based Approach. IEEE Transactions on Control Systems Technology, 2019, 27, 923-933.	5.2	13
27	A coordinates mixing matrix-based model for swarm formation. International Journal of Control, 2021, 94, 711-721.	1.9	13
28	Discrete orthogonal polynomials on equidistant nodes. International Mathematical Forum, 0, 2, 1007-1020.	0.1	13
29	Path Planning and Control of a UAV Fleet in Bridge Management Systems. Remote Sensing, 2022, 14, 1858.	4.0	13
30	Periodic disturbance rejection for fractional-order dynamical systems. Fractional Calculus and Applied Analysis, 2015, 18, 603-620.	2.2	12
31	A model for swarm formation with reference tracking. , 2017, , .		12
32	Frequency estimation of multi-sinusoidal signal by multiple integrals. , 2007, , .		11
33	Biased sinusoidal disturbance rejection with plant uncertainty via an adaptive third-order generalized integrator. , 2012, , .		10
34	A global frequency estimator based on a frequency-locked-loop filter. , 2016, , .		10
35	Structural properties of the SOGI system for parameters estimation of a biased sinusoid. , 2010, , .		9
36	Vandermonde systems on Gaussâ€“Lobatto Chebyshev nodes. Applied Mathematics and Computation, 2005, 170, 633-647.	2.2	8

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37	A property of the elementary symmetric functions. Calcolo, 2005, 42, 31-36.	1.1	7
38	On an integral representation of a class of Kapteyn (Fourierâ€“Bessel) series: Keplerâ€™s equation, radiation problems and Meisselâ€™s expansion. Applied Mathematics Letters, 2010, 23, 1331-1335.	2.7	7
39	Uncertain masterâ€“slave synchronization with implicit minimum saturation level. Applied Mathematical Modelling, 2016, 40, 1193-1198.	4.2	7
40	Vortex Formation in a Swarm of Agents With a Coordinates Mixing Matrix-Based Model. , 2020, 4, 420-425.		7
41	Discrete orthogonal polynomials on Gaussâ€“Lobatto Chebyshev nodes. Journal of Approximation Theory, 2007, 144, 238-246.	0.8	6
42	Discrete-time Frequency-Locked-Loop filters for parameters estimation of sinusoidal signals. , 2013, , .		6
43	Non-asymptotic numerical differentiation: a kernel-based approach. International Journal of Control, 2018, 91, 2090-2099.	1.9	6
44	A distributed model predictive control strategy for finite-time synchronization problems in multi-agent double-integrator systems. European Journal of Control, 2020, 55, 56-67.	2.6	6
45	Vandermonde systems on equidistant nodes in [0,1]: accurate computation. Applied Mathematics and Computation, 2006, 172, 971-984.	2.2	5
46	Combined identification and rejection of periodic disturbances in the presence of plant uncertainty. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 674-679.	0.4	5
47	Kernel-based deadbeat parametric estimation of bias-affected damped sinusoidal signals. , 2016, , .		5
48	Editorial for the special issue on recent advances in adaptive methods for frequency estimation with applications. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1547-1549.	4.1	5
49	Volterraâ€™s kernels-based finite-time parameters estimation of the Chua system. Applied Mathematics and Computation, 2018, 318, 121-130.	2.2	5
50	A Discrete-Time Model for Swarm Formation With Coordinates Coupling Matrix. , 2020, 4, 1012-1017.		5
51	A Generalized Gaziâ€“Passino Model With Coordinate-Coupling Matrices for Swarm Formation With Rotation Behavior. IEEE Transactions on Control of Network Systems, 2022, 9, 1227-1237.	3.7	5
52	Target Capturing in an Ellipsoidal Region for a Swarm of Double Integrator Agents. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 801-811.	13.1	5
53	Robust Frequency-Adaptive Quadrature Phase-Locked-Loops With Lyapunov-Certified Global Stability. IEEE Transactions on Control Systems Technology, 2023, 31, 467-474.	5.2	5
54	Accurate floating-point summation: a new approach. Applied Mathematics and Computation, 2007, 189, 410-424.	2.2	4

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55	An adaptive â€œquasiâ€•repetitive controller for the fundamental frequency estimation of periodic signals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 12098-12103.	0.4	4
56	Deadbeat source localization from range-only measurements: A robust kernel-based approach. , 2016, , .		4
57	Lebesgue constant for Lagrange interpolation on equidistant nodes. Analysis in Theory and Applications, 2004, 20, 323-331.	0.4	3
58	Gaussâ€“Lobatto to Bernstein polynomials transformation. Journal of Computational and Applied Mathematics, 2008, 222, 690-700.	2.0	3
59	Improved evaluation of initial condition for the multi-sine fitting algorithm. , 2009, , .		3
60	Path tracking and coordination control of multi-agent systems: a robust tube-based MPC scheme. IFAC-PapersOnLine, 2020, 53, 6975-6980.	0.9	3
61	A Prony-like polynomial-based approach to model order reduction. , 2007, , .		2
62	Hammerstein Modeling of Electrical Drives: Identification by Multiple Integrators. , 2007, , .		2
63	An analytic optimization procedure to estimate a first-order plus time delay model from step response. , 2008, , .		2
64	Keplerâ€™s equation and limit cycles in a class of PWM feedback control systems. Nonlinear Dynamics, 2010, 62, 215-227.	5.2	2
65	A cost effective ac voltage regulator to mitigate voltage sags and dim lamps in street-lighting applications. , 2010, , .		2
66	A practical approach to the time-derivative estimation problem based on PI-SOGI filters bank. , 2010, , .		2
67	Explicit solution of the finite time L2-norm polynomial approximation problem. Applied Mathematics and Computation, 2011, 217, 8354-8359.	2.2	2
68	Design of a fractional-order repetitive controller for disturbance cancellation. , 2017, , .		2
69	A Deadbeat Observer for Two and Three-dimensional LTI Systems by a Time/Output-Dependent State Mapping. IFAC-PapersOnLine, 2017, 50, 6452-6457.	0.9	2
70	Distributed model predictive control for constrained multi-agent systems: a swarm aggregation approach. , 2018, , .		2
71	Globally-stable tracking and estimation for single-phase electrical signals with DC-offset rejection. , 2019, , .		2
72	Robust Frequency-Adaptive PLL with Lyapunov Stability Guarantees. , 2020, , .		2

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73	RecoStones: a New Tool to Identify Calabrian Stone Materials Through Image Processing. Geoheritage, 2021, 13, 1.	2.8	2
74	Swarm fixed-time reference tracking: a discrete model. International Journal of Control, 2023, 96, 238-250.	1.9	2
75	Explicit solution of the polynomial least-squares approximation problem on Chebyshev extrema nodes. Linear Algebra and Its Applications, 2007, 422, 553-562.	0.9	1
76	Periodic signal frequency tracking via a shifted second-order generalized integrator. , 2013, , .		1
77	Discrete-time Frequency-Locked-Loop filters for exact asymptotic rejection of sinusoidal disturbances. , 2014, , .		1
78	Call for Papers: â€˜Recent advances in adaptive methods for frequency estimation with applicationsâ€™. International Journal of Adaptive Control and Signal Processing, 2014, 28, 562-562.	4.1	1
79	Distorted exponential signal analyser based on modified prony-like method. , 2015, , .		1
80	High-gain fractional-order controller for output tracking and disturbance attenuation in a class of Lur'e systems. IFAC-PapersOnLine, 2015, 48, 748-753.	0.9	1
81	A modified non-adaptive OSG-SOGI filter for estimation of a biased sinusoidal signal with global convergence properties. IFAC-PapersOnLine, 2020, 53, 530-535.	0.9	1
82	Invariant Ellipsoids Method for Chaos Synchronization in a Class of Chaotic Systems. International Journal of Robotics and Control Systems, 2021, 2, 57-66.	1.0	1
83	A Decoupling Derivative-based Approach for Hammerstein System Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 6434-6439.	0.4	0
84	Optimal piecewise constant reference command for approximate output synthesis of scalar systems: an interpolation approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13127-13132.	0.4	0
85	Torque ripple suppression control for permanent magnet motors. , 2014, , .		0
86	Frequency Response Estimation from Impulse or Stepâ€like Response by Virtual Experiments. Asian Journal of Control, 2016, 18, 1289-1298.	3.0	0
87	Finite-time parameters estimation of the Chua system. AIP Conference Proceedings, 2016, , .	0.4	0
88	Prescribed Interactions Among Agents for Swarm Aggregation on a Circle. , 2018, , .		0
89	A model predictive control strategy for finite-time reference synchronization in multi-agent systems with double-integrator dynamics. , 2020, , .		0
90	The target capturing problem for multi-agent double-integrator systems: a distributed model predictive control scheme. , 2020, , .		0

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91	Clustering Methods for Microarray Data Sets. Methods in Molecular Biology, 2022, 2401, 249-261.	0.9	0
92	A Swarm Model for Target Capturing in a Polygonal Strip. , 2022, , .		0