# Giuseppe Fedele

List of Publications by Year
in descending order

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|---|---|---|---|
| 92<br>papers | 1,014<br>citations | 471509<br>17<br>h-index | 501196<br>28<br>g-index |
| 92<br>all docs | 92<br>docs citations | 92<br>times ranked | 669<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Swarm fixed-time reference tracking: a discrete model. International Journal of Control, 2023, 96, 238-250. | 1.9 | 2 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Clustering Methods for Microarray Data Sets. Methods in Molecular Biology, 2022, 2401, 249-261. | 0.9 | 0 |
| 6 | Path Planning and Control of a UAV Fleet in Bridge Management Systems. Remote Sensing, 2022, 14, 1858. | 4.0 | 13 |
| 7 | 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 |
| 8 | A Swarm Model for Target Capturing in a Polygonal Strip. , 2022, , . | | 0 |
| 9 | A coordinates mixing matrix-based model for swarm formation. International Journal of Control, 2021, 94, 711-721. | 1.9 | 13 |
| 10 | RecoStones: a New Tool to Identify Calabrian Stone Materials Through Image Processing. Geoheritage, 2021, 13, 1. | 2.8 | 2 |
| 11 | 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 |
| 12 | Vortex Formation in a Swarm of Agents With a Coordinates Mixing Matrix-Based Model. , 2020, 4, 420-425. | | 7 |
| 13 | 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 |
| 14 | A model predictive control strategy for finite-time reference synchronization in multi-agent systems with double-integrator dynamics. , 2020, , . | | 0 |
| 15 | Robust Frequency-Adaptive PLL with Lyapunov Stability Guarantees. , 2020, , . | | 2 |
| 16 | The target capturing problem for multi-agent double-integrator systems: a distributed model predictive control scheme. , 2020, , . | | 0 |
| 17 | A Discrete-Time Model for Swarm Formation With Coordinates Coupling Matrix. , 2020, 4, 1012-1017. | | 5 |
| 18 | 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 |

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|---|---------|-----|-----------|
| 19 | Path tracking and coordination control of multi-agent systems: a robust tube-based MPC scheme. IFAC-PapersOnLine, 2020, 53, 6975-6980. | 0.9 | 3 |
| 20 | A Kinematic Model for Swarm Finite-Time Trajectory Tracking. IEEE Transactions on Cybernetics, 2019, 49, 3806-3815. | 9.5 | 26 |
| 21 | Finite-time estimation of multiple exponentially-damped sinusoidal signals: A kernel-based approach. Automatica, 2019, 106, 1-7. | 5.0 | 17 |
| 22 | Globally-stable tracking and estimation for single-phase electrical signals with DC-offset rejection. , 2019, , . | | 2 |
| 23 | Parameter Estimation and an Extended Predictive-Based Tuning Method for a Lab-Scale Distillation Column. ACS Omega, 2019, 4, 21230-21241. | 3.5 | 13 |
| 24 | 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 |
| 25 | Volterraâ€™s kernels-based finite-time parameters estimation of the Chua system. Applied Mathematics and Computation, 2018, 318, 121-130. | 2.2 | 5 |
| 26 | A Fractional-Order Repetitive Controller for Periodic Disturbance Rejection. IEEE Transactions on Automatic Control, 2018, 63, 1426-1433. | 5.7 | 23 |
| 27 | Obstacles Avoidance Based on Switching Potential Functions. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 387-405. | 3.4 | 22 |
| 28 | Prescribed Interactions Among Agents for Swarm Aggregation on a Circle. , 2018, , . | | 0 |
| 29 | Magnetometer Bias Finite-Time Estimation Using Gyroscope Data. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2926-2936. | 4.7 | 13 |
| 30 | Distributed model predictive control for constrained multi-agent systems: a swarm aggregation approach. , 2018, , . | | 2 |
| 31 | Non-asymptotic numerical differentiation: a kernel-based approach. International Journal of Control, 2018, 91, 2090-2099. | 1.9 | 6 |
| 32 | 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 |
| 33 | Design of a fractional-order repetitive controller for disturbance cancellation. , 2017, , . | | 2 |
| 34 | 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 |
| 35 | A model for swarm formation with reference tracking. , 2017, , . | | 12 |
| 36 | Frequency Response Estimation from Impulse or Stepâ€like Response by Virtual Experiments. Asian Journal of Control, 2016, 18, 1289-1298. | 3.0 | 0 |

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| 37 | Kernel-based deadbeat parametric estimation of bias-affected damped sinusoidal signals. , 2016, , . | | 5 |
| 38 | 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 |
| 39 | Deadbeat source localization from range-only measurements: A robust kernel-based approach. , 2016, , . | | 4 |
| 40 | A global frequency estimator based on a frequency-locked-loop filter. , 2016, , . | | 10 |
| 41 | Finite-time parameters estimation of the Chua system. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 42 | 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 |
| 43 | Uncertain master–slave synchronization with implicit minimum saturation level. Applied Mathematical Modelling, 2016, 40, 1193-1198. | 4.2 | 7 |
| 44 | Periodic disturbance rejection for fractional-order dynamical systems. Fractional Calculus and Applied Analysis, 2015, 18, 603-620. | 2.2 | 12 |
| 45 | Distorted exponential signal analyser based on modified prony-like method. , 2015, , . | | 1 |
| 46 | 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 |
| 47 | Discrete-time Frequency-Locked-Loop filters for exact asymptotic rejection of sinusoidal disturbances. , 2014, , . | | 1 |
| 48 | A Frequency-Locked-Loop Filter for Biased Multi-Sinusoidal Estimation. IEEE Transactions on Signal Processing, 2014, 62, 1125-1134. | 5.3 | 69 |
| 49 | Periodic disturbance rejection with unknown frequency and unknown plant structure. Journal of the Franklin Institute, 2014, 351, 1074-1092. | 3.4 | 27 |
| 50 | Call for Papers: 'Recent advances in adaptive methods for frequency estimation with applications'. International Journal of Adaptive Control and Signal Processing, 2014, 28, 562-562. | 4.1 | 1 |
| 51 | Torque ripple suppression control for permanent magnet motors. , 2014, , . | | 0 |
| 52 | An adaptive "quasi"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 |
| 53 | Biased Sinusoidal Disturbance Compensation With Unknown Frequency. IEEE Transactions on Automatic Control, 2013, 58, 3207-3212. | 5.7 | 43 |
| 54 | Periodic signal frequency tracking via a shifted second-order generalized integrator. , 2013, , . | | 1 |

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|---|---------|-----|-----------|
| 55 | Discrete-time Frequency-Locked-Loop filters for parameters estimation of sinusoidal signals. , 2013, , . | | 6 |
| 56 | 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 |
| 57 | 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 |
| 58 | Biased sinusoidal disturbance rejection with plant uncertainty via an adaptive third-order generalized integrator. , 2012, , . | | 10 |
| 59 | Multi-Sine Fitting Algorithm enhancement for sinusoidal signal characterization. Computer Standards and Interfaces, 2012, 34, 535-540. | 5.4 | 13 |
| 60 | 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 |
| 61 | An adaptive quasi-notch filter for a biased sinusoidal signal estimation. , 2011, , . | | 23 |
| 62 | 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 |
| 63 | Explicit solution of the finite time L2-norm polynomial approximation problem. Applied Mathematics and Computation, 2011, 217, 8354-8359. | 2.2 | 2 |
| 64 | On an integral representation of a class of Kapteyn (Fourier–Bessel) series: Kepler's equation, radiation problems and Meissel's expansion. Applied Mathematics Letters, 2010, 23, 1331-1335. | 2.7 | 7 |
| 65 | Kepler's equation and limit cycles in a class of PWM feedback control systems. Nonlinear Dynamics, 2010, 62, 215-227. | 5.2 | 2 |
| 66 | A recursive scheme for frequency estimation using the modulating functions method. Applied Mathematics and Computation, 2010, 216, 1393-1400. | 2.2 | 32 |
| 67 | Structural properties of the SOGI system for parameters estimation of a biased sinusoid. , 2010, , . | | 9 |
| 68 | A cost effective ac voltage regulator to mitigate voltage sags and dim lamps in street-lighting applications. , 2010, , . | | 2 |
| 69 | Spectral Analysis of a Class of DC–AC PWM Inverters by Kapteyn Series. IEEE Transactions on Power Electronics, 2010, 25, 839-849. | 7.9 | 30 |
| 70 | A practical approach to the time-derivative estimation problem based on PI-SOGI filters bank. , 2010, , . | | 2 |
| 71 | 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 |
| 72 | A property of the elementary symmetric functions on the frequencies of sinusoidal signals. Signal Processing, 2009, 89, 765-777. | 3.7 | 20 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 73 | A Power Electrical Signal Tracking Strategy Based on the Modulating Functions Method. IEEE Transactions on Industrial Electronics, 2009, 56, 4079-4087. | 7.9 | 63 |
| 74 | Improved evaluation of initial condition for the multi-sine fitting algorithm. , 2009, , . | | 3 |
| 75 | 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 |
| 76 | Gaussâ€"Lobatto to Bernstein polynomials transformation. Journal of Computational and Applied Mathematics, 2008, 222, 690-700. | 2.0 | 3 |
| 77 | An analytic optimization procedure to estimate a first-order plus time delay model from step response. , 2008, , . | | 2 |
| 78 | Modulating functions method plus SOGI scheme for signal tracking. , 2008, , . | | 18 |
| 79 | 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 |
| 80 | Frequency estimation of multi-sinusoidal signal by multiple integrals. , 2007, , . | | 11 |
| 81 | A Prony-like polynomial-based approach to model order reduction. , 2007, , . | | 2 |
| 82 | Hammerstein Modeling of Electrical Drives: Identification by Multiple Integrators. , 2007, , . | | 2 |
| 83 | Accurate floating-point summation: a new approach. Applied Mathematics and Computation, 2007, 189, 410-424. | 2.2 | 4 |
| 84 | 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 |
| 85 | A Prony-like method for non-uniform sampling. Signal Processing, 2007, 87, 2484-2490. | 3.7 | 25 |
| 86 | Discrete orthogonal polynomials on Gaussâ€"Lobatto Chebyshev nodes. Journal of Approximation Theory, 2007, 144, 238-246. | 0.8 | 6 |
| 87 | Vandermonde systems on equidistant nodes in [0,1]: accurate computation. Applied Mathematics and Computation, 2006, 172, 971-984. | 2.2 | 5 |
| 88 | On the inversion of the Vandermonde matrix. Applied Mathematics and Computation, 2006, 174, 1384-1397. | 2.2 | 51 |
| 89 | Vandermonde systems on Gaussâ€"Lobatto Chebyshev nodes. Applied Mathematics and Computation, 2005, 170, 633-647. | 2.2 | 8 |
| 90 | A property of the elementary symmetric functions. Calcolo, 2005, 42, 31-36. | 1.1 | 7 |

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|---|---------|-----|-----------|
| 91 | Lebesgue constant for Lagrange interpolation on equidistant nodes. Analysis in Theory and Applications, 2004, 20, 323-331. | 0.4 | 3 |
| 92 | Discrete orthogonal polynomials on equidistant nodes. International Mathematical Forum, 0, 2, 1007-1020. | 0.1 | 13 |