# GarcÃ-a Gil

List of Publications by Year
in descending order

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|---|---|---|---|
| 74 papers | 1,673 citations | 279798 23 h-index | 302126 39 g-index |
| 75 all docs | 75 docs citations | 75 times ranked | 1169 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Robust prediction-based control for unstable delay systems: Application to the yaw control of a mini-helicopter. Automatica, 2004, 40, 603-612. | 5.0 | 150 |
| 2 | Predictor-Based Control of a Class of Time-Delay Systems and Its Application to Quadrotors. IEEE Transactions on Industrial Electronics, 2017, 64, 459-469. | 7.9 | 110 |
| 3 | Disturbance observer-based quadrotor attitude tracking control for aggressive maneuvers. Control Engineering Practice, 2019, 82, 14-23. | 5.5 | 108 |
| 4 | Robust control design for long time-delay systems. Journal of Process Control, 2009, 19, 1640-1648. | 3.3 | 80 |
| 5 | Periodic Event-Triggered Sampling and Dual-Rate Control for a Wireless Networked Control System With Applications to UAVs. IEEE Transactions on Industrial Electronics, 2019, 66, 3157-3166. | 7.9 | 72 |
| 6 | A generalized smith predictor for unstable time-delay SISO systems. ISA Transactions, 2018, 72, 197-204. | 5.7 | 65 |
| 7 | Control of unstable non-minimum-phase delayed systems. Journal of Process Control, 2006, 16, 1099-1111. | 3.3 | 60 |
| 8 | Enhanced disturbance rejection for a predictor-based control of LTI systems with input delay. Automatica, 2016, 72, 205-208. | 5.0 | 60 |
| 9 | Robust tuning of a generalized predictor-based controller for integrating and unstable systems with long time-delay. Journal of Process Control, 2013, 23, 1205-1216. | 3.3 | 57 |
| 10 | Enhanced extended state observer-based control for systems with mismatched uncertainties and disturbances. ISA Transactions, 2018, 73, 1-10. | 5.7 | 54 |
| 11 | Robust Control of Quadrotors Based on an Uncertainty and Disturbance Estimator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, . | 1.6 | 52 |
| 12 | A new dead-time compensator to control stable and integrating processes with long dead-time. Automatica, 2008, 44, 1062-1071. | 5.0 | 51 |
| 13 | New Predictor and 2DOF Control Scheme for Industrial Processes With Long Time Delay. IEEE Transactions on Industrial Electronics, 2018, 65, 4247-4256. | 7.9 | 43 |
| 14 | Robustness of a discrete-time predictor-based controller for time-varying measurement delay. Control Engineering Practice, 2012, 20, 102-110. | 5.5 | 40 |
| 15 | Interactive tool for analysis of time-delay systems with dead-time compensators. Control Engineering Practice, 2008, 16, 824-835. | 5.5 | 39 |
| 16 | Simple Real-time Attitude Stabilization of a Quad-rotor Aircraft With Bounded Signals. , 2006, , . | | 34 |
| 17 | Dead-time-compensator for unstable MIMO systems with multiple time delays. Journal of Process Control, 2010, 20, 877-884. | 3.3 | 34 |
| 18 | Robust stability analysis of filtered Smith predictor for time-varying delay processes. Journal of Process Control, 2012, 22, 1975-1984. | 3.3 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Observation and stabilization of LTV systems with time-varying measurement delay. Automatica, 2019, 103, 573-579. | 5.0 | 32 |
| 20 | Event-triggered predictor-based control with gain-Scheduling and extended state observer for networked control systems. Information Sciences, 2019, 491, 90-108. | 6.9 | 32 |
| 21 | Smith Predictor-Based Control Schemes for Dead-Time Unstable Cascade Processes. Industrial & Engineering Chemistry Research, 2010, 49, 11471-11481. | 3.7 | 29 |
| 22 | Predictorâ€“observer-based control of systems with multiple input/output delays. Journal of Process Control, 2012, 22, 1350-1357. | 3.3 | 29 |
| 23 | Rejection of mismatched disturbances for systems with input delay via a predictive extended state observer. International Journal of Robust and Nonlinear Control, 2018, 28, 2457-2467. | 3.7 | 28 |
| 24 | Simple Real-Time Stabilization of Vertical Takeoff and Landing Aircraft with Bounded Signals. Journal of Guidance, Control, and Dynamics, 2008, 31, 1166-1176. | 2.8 | 24 |
| 25 | Robustness analysis of discrete predictor-based controllers for input-delay systems. International Journal of Systems Science, 2013, 44, 232-239. | 5.5 | 23 |
| 26 | Artificial Pancreas System With Unannounced Meals Based on a Disturbance Observer and Feedforward Compensation. IEEE Transactions on Control Systems Technology, 2021, 29, 454-460. | 5.2 | 23 |
| 27 | Robust predictive extended state observer for a class of nonlinear systems with time-varying input delay. International Journal of Control, 2020, 93, 217-225. | 1.9 | 18 |
| 28 | Application of Takagi-Sugeno observers for state estimation in a quadrotor. , 2011, , . | | 17 |
| 29 | Robustness with respect to delay uncertainties of a predictor-observer based discrete-time controller. , 2006, , . | | 16 |
| 30 | A Non-Uniform Predictor-Observer for a Networked Control System. International Journal of Control, Automation and Systems, 2011, 9, 1194-1202. | 2.7 | 16 |
| 31 | Robust controller design for inputâ€delayed systems using predictive feedback and an uncertainty estimator. International Journal of Robust and Nonlinear Control, 2017, 27, 1826-1840. | 3.7 | 16 |
| 32 | Gain-scheduled predictive extended state observer for time-varying delays systems with mismatched disturbances. ISA Transactions, 2019, 84, 206-213. | 5.7 | 16 |
| 33 | Robustness of a discrete-time predictor-based controller for time-varying measurement delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 367-372. | 0.4 | 14 |
| 34 | Improving attitude estimation using inertial sensors for quadrotor control systems. , 2014, , . | | 13 |
| 35 | Analytical design of a generalised predictorâ€based control scheme for lowâ€order integrating and unstable systems with long time delay. IET Control Theory and Applications, 2016, 10, 884-893. | 2.1 | 13 |
| 36 | Output-feedback anti-disturbance predictor-based control for discrete-time systems with time-varying input delays. Automatica, 2021, 129, 109627. | 5.0 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Extended state observer-based control for systems with locally Lipschitz uncertainties: LMI-based stability conditions. Systems and Control Letters, 2019, 134, 104526. | 2.3 | 11 |
| 38 | Robust Compensation of Delay and Diffusive Actuator Dynamics Without Distributed Feedback. IEEE Transactions on Automatic Control, 2019, 64, 3663-3675. | 5.7 | 9 |
| 39 | Active disturbance rejection by state feedback: Experimental validation in a 3-DOF quadrotor platform. , 2015, , . | | 8 |
| 40 | A novel observer-predictor control for uncertain systems with unknown time-varying input and output delays. International Journal of Control, 2021, 94, 1630-1640. | 1.9 | 8 |
| 41 | RESETTING SMITH PREDICTOR FOR THE CONTROL OF UNSTABLE SYSTEMS WITH DELAY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 77-82. | 0.4 | 7 |
| 42 | Observer-control scheme for autonomous navigation: Flight tests validation in a quadrotor vehicle. , 2013, , . | | 7 |
| 43 | Robust Design of the Uncertainty and Disturbance Estimator. IFAC-PapersOnLine, 2017, 50, 8262-8267. | 0.9 | 7 |
| 44 | Predicting the future state of disturbed LTI systems: A solution based on high-order observers. Automatica, 2021, 124, 109365. | 5.0 | 7 |
| 45 | A quaternion-based and active disturbance rejection attitude control for quadrotor. , 2016, , . | | 6 |
| 46 | Attitude Estimation using Low-Cost Sensors: a comparative analysis. , 2014, , . | | 5 |
| 47 | Disturbance rejection in process control. , 2014, , . | | 5 |
| 48 | A predictive extended state observer for a class of nonlinear systems with input delay subject to external disturbances. , 2017, , . | | 5 |
| 49 | Robust stabilization of time-varying delay systems with predictor-observer based controller. IFAC-PapersOnLine, 2019, 52, 213-218. | 0.9 | 5 |
| 50 | Predictive ESO-based control with guaranteed stability for uncertain MIMO constrained systems. ISA Transactions, 2021, 112, 161-167. | 5.7 | 5 |
| 51 | Disturbance rejection: A central issue in process control. , 2015, , . | | 4 |
| 52 | Control of Multi Delayed Plants: Recycling CSTR. , 2012, , . | | 3 |
| 53 | Two-Degree-of-Freedom PID Tuning Based on an Uncertainty and Disturbance Estimator *. , 2018, , . | | 3 |
| 54 | Robust Prediction-Dased Control for Unstable Delay Systems. Lecture Notes in Computational Science and Engineering, 2004, , 311-325. | 0.3 | 3 |

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|---|---|---|---|
| 55 | Robust prediction-based control for unstable delay systems. , 0, , . | | 2 |
| 56 | Optimal control of unstable input/output timeâ€delayed systems. Optimal Control Applications and Methods, 2012, 33, 445-460. | 2.1 | 2 |
| 57 | Control of input/output delayed and disturbed unstable plants. , 2015, , . | | 2 |
| 58 | Some contributions to the design of dead-time compensators. , 2016, , . | | 2 |
| 59 | Dead-time compensator for multi time-delay systems: The scalar case. , 2017, , . | | 2 |
| 60 | Dead-Time Compensator for State-delay Stable Systems. IFAC-PapersOnLine, 2018, 51, 672-677. | 0.9 | 2 |
| 61 | Analysis and experimental application of a deadâ€time compensator for input saturated processes with output timeâ€varying delays. IET Control Theory and Applications, 2021, 15, 580-593. | 2.1 | 2 |
| 62 | A predictor-observer for a Networked Control System with time-varying delays and non-uniform sampling. , 2009, , . | | 2 |
| 63 | Decoupling MIMO systems with multiple input/output time delays. , 2010, , . | | 1 |
| 64 | Data Fusion for UAV Localization. , 2017, , 109-129. | | 1 |
| 65 | Compensation of a Class of Infinite-Dimensional Actuator Dynamics without Distributed Feedback. , 2018, , . | | 1 |
| 66 | Networked Control of Unstable Resonant Systems. , 2019, , . | | 1 |
| 67 | Nonlinear Control of a Small Four-Rotor Rotorcraft. , 2005, , 147-177. | | 0 |
| 68 | A 2DOF state feedback MRAC control of an electromechanical system. , 2014, , . | | 0 |
| 69 | Stability analysis of linear systems with time-varying state and measurement delays. , 2014, , . | | 0 |
| 70 | Control of disturbed systems with measurement delays: Application to quadrotor vehicles. , 2015, , . | | 0 |
| 71 | Partial control of systems in series. , 2017, , . | | 0 |
| 72 | State-of-the-Art. , 2017, , 3-30. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Delay Signals & Predictors**The results in this chapter were developed in collaboration with R. Sanz Diaz from the Universidad Politecnica de Valencia, Spain, and Angel G. Alatorre and Sabine MondiÃ© from CINVESTAV-IPN, Mexico.. , 2017, , 75-108. | | 0 |
| 74 | Robust Simple Controllers**The results in this chapter were developed in collaboration with O. Santos from the Universidad AutÃ³noma del Estado de Hidalgo, MÃ©xico and R. Sanz from the Universitat PolitÃ©cnica de ValÃ©ncia, Spain.. , 2017, , 181-212. | | 0 |