

García-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 | 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 |
| 2 | Predicting the future state of disturbed LTI systems: A solution based on high-order observers. Automatica, 2021, 124, 109365. | 5.0 | 7 |
| 3 | Predictive ESO-based control with guaranteed stability for uncertain MIMO constrained systems. ISA Transactions, 2021, 112, 161-167. | 5.7 | 5 |
| 4 | 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 |
| 5 | Analysis and experimental application of a dead-time compensator for input saturated processes with output time-varying delays. IET Control Theory and Applications, 2021, 15, 580-593. | 2.1 | 2 |
| 6 | Output-feedback anti-disturbance predictor-based control for discrete-time systems with time-varying input delays. Automatica, 2021, 129, 109627. | 5.0 | 12 |
| 7 | 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 |
| 8 | 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 |
| 9 | Robust stabilization of time-varying delay systems with predictor-observer based controller. IFAC-PapersOnLine, 2019, 52, 213-218. | 0.9 | 5 |
| 10 | 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 |
| 11 | Observation and stabilization of LTV systems with time-varying measurement delay. Automatica, 2019, 103, 573-579. | 5.0 | 32 |
| 12 | 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 |
| 13 | Networked Control of Unstable Resonant Systems. , 2019, , . | | 1 |
| 14 | Robust Compensation of Delay and Diffusive Actuator Dynamics Without Distributed Feedback. IEEE Transactions on Automatic Control, 2019, 64, 3663-3675. | 5.7 | 9 |
| 15 | Gain-scheduled predictive extended state observer for time-varying delays systems with mismatched disturbances. ISA Transactions, 2019, 84, 206-213. | 5.7 | 16 |
| 16 | Disturbance observer-based quadrotor attitude tracking control for aggressive maneuvers. Control Engineering Practice, 2019, 82, 14-23. | 5.5 | 108 |
| 17 | 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 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Enhanced extended state observer-based control for systems with mismatched uncertainties and disturbances. ISA Transactions, 2018, 73, 1-10. | 5.7 | 54 |
| 20 | A generalized smith predictor for unstable time-delay SISO systems. ISA Transactions, 2018, 72, 197-204. | 5.7 | 65 |
| 21 | Dead-Time Compensator for State-delay Stable Systems. IFAC-PapersOnLine, 2018, 51, 672-677. | 0.9 | 2 |
| 22 | Two-Degree-of-Freedom PID Tuning Based on an Uncertainty and Disturbance Estimator *. , 2018, , . | | 3 |
| 23 | Compensation of a Class of Infinite-Dimensional Actuator Dynamics without Distributed Feedback. , 2018, , . | | 1 |
| 24 | 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 |
| 25 | Robust controller design for input-delayed systems using predictive feedback and an uncertainty estimator. International Journal of Robust and Nonlinear Control, 2017, 27, 1826-1840. | 3.7 | 16 |
| 26 | Robust Design of the Uncertainty and Disturbance Estimator. IFAC-PapersOnLine, 2017, 50, 8262-8267. | 0.9 | 7 |
| 27 | Partial control of systems in series. , 2017, , . | | 0 |
| 28 | A predictive extended state observer for a class of nonlinear systems with input delay subject to external disturbances. , 2017, , . | | 5 |
| 29 | State-of-the-Art. , 2017, , 3-30. | | 0 |
| 30 | Delay Signals & Predictors**The results in this chapter were developed in collaboration with R. Sanz Díaz from the Universidad Politecnica de Valencia, Spain, and Angel G. Alatorre and Sabine Mondié from CINVESTAV-IPN, Mexico.. , 2017, , 75-108. | | 0 |
| 31 | Data Fusion for UAV Localization. , 2017, , 109-129. | | 1 |
| 32 | Robust Simple Controllers**The results in this chapter were developed in collaboration with O. Santos from the Universidad Autónoma del Estado de Hidalgo, México and R. Sanz from the Universitat Politècnica de València, Spain.. , 2017, , 181-212. | | 0 |
| 33 | Dead-time compensator for multi time-delay systems: The scalar case. , 2017, , . | | 2 |
| 34 | A quaternion-based and active disturbance rejection attitude control for quadrotor. , 2016, , . | | 6 |
| 35 | Some contributions to the design of dead-time compensators. , 2016, , . | | 2 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Analytical design of a generalised predictor-based control scheme for low-order integrating and unstable systems with long time delay. IET Control Theory and Applications, 2016, 10, 884-893. | 2.1 | 13 |
| 38 | Enhanced disturbance rejection for a predictor-based control of LTI systems with input delay. Automatica, 2016, 72, 205-208. | 5.0 | 60 |
| 39 | Control of disturbed systems with measurement delays: Application to quadrotor vehicles. , 2015, , . | | 0 |
| 40 | Control of input/output delayed and disturbed unstable plants. , 2015, , . | | 2 |
| 41 | Disturbance rejection: A central issue in process control. , 2015, , . | | 4 |
| 42 | Active disturbance rejection by state feedback: Experimental validation in a 3-DOF quadrotor platform. , 2015, , . | | 8 |
| 43 | Attitude Estimation using Low-Cost Sensors: a comparative analysis. , 2014, , . | | 5 |
| 44 | A 2DOF state feedback MRAC control of an electromechanical system. , 2014, , . | | 0 |
| 45 | Stability analysis of linear systems with time-varying state and measurement delays. , 2014, , . | | 0 |
| 46 | Improving attitude estimation using inertial sensors for quadrotor control systems. , 2014, , . | | 13 |
| 47 | Disturbance rejection in process control. , 2014, , . | | 5 |
| 48 | 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 |
| 49 | Observer-control scheme for autonomous navigation: Flight tests validation in a quadrotor vehicle. , 2013, , . | | 7 |
| 50 | Robustness analysis of discrete predictor-based controllers for input-delay systems. International Journal of Systems Science, 2013, 44, 232-239. | 5.5 | 23 |
| 51 | Control of Multi Delayed Plants: Recycling CSTR. , 2012, , . | | 3 |
| 52 | Predictor-based observer-based control of systems with multiple input/output delays. Journal of Process Control, 2012, 22, 1350-1357. | 3.3 | 29 |
| 53 | Robust stability analysis of filtered Smith predictor for time-varying delay processes. Journal of Process Control, 2012, 22, 1975-1984. | 3.3 | 34 |
| 54 | Robustness of a discrete-time predictor-based controller for time-varying measurement delay. Control Engineering Practice, 2012, 20, 102-110. | 5.5 | 40 |

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|----|--|-----|-----------|
| 55 | Optimal control of unstable input/output time-delayed systems. <i>Optimal Control Applications and Methods</i> , 2012, 33, 445-460. | 2.1 | 2 |
| 56 | Application of Takagi-Sugeno observers for state estimation in a quadrotor. , 2011, , . | | 17 |
| 57 | A Non-Uniform Predictor-Observer for a Networked Control System. <i>International Journal of Control, Automation and Systems</i> , 2011, 9, 1194-1202. | 2.7 | 16 |
| 58 | Robustness of a discrete-time predictor-based controller for time-varying measurement delay. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010, 43, 367-372. | 0.4 | 14 |
| 59 | Dead-time-compensator for unstable MIMO systems with multiple time delays. <i>Journal of Process Control</i> , 2010, 20, 877-884. | 3.3 | 34 |
| 60 | Decoupling MIMO systems with multiple input/output time delays. , 2010, , . | | 1 |
| 61 | Smith Predictor-Based Control Schemes for Dead-Time Unstable Cascade Processes. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 11471-11481. | 3.7 | 29 |
| 62 | Robust control design for long time-delay systems. <i>Journal of Process Control</i> , 2009, 19, 1640-1648. | 3.3 | 80 |
| 63 | A predictor-observer for a Networked Control System with time-varying delays and non-uniform sampling. , 2009, , . | | 2 |
| 64 | A new dead-time compensator to control stable and integrating processes with long dead-time. <i>Automatica</i> , 2008, 44, 1062-1071. | 5.0 | 51 |
| 65 | Interactive tool for analysis of time-delay systems with dead-time compensators. <i>Control Engineering Practice</i> , 2008, 16, 824-835. | 5.5 | 39 |
| 66 | Simple Real-Time Stabilization of Vertical Takeoff and Landing Aircraft with Bounded Signals. <i>Journal of Guidance, Control, and Dynamics</i> , 2008, 31, 1166-1176. | 2.8 | 24 |
| 67 | Simple Real-time Attitude Stabilization of a Quad-rotor Aircraft With Bounded Signals. , 2006, , . | | 34 |
| 68 | Robustness with respect to delay uncertainties of a predictor-observer based discrete-time controller. , 2006, , . | | 16 |
| 69 | Control of unstable non-minimum-phase delayed systems. <i>Journal of Process Control</i> , 2006, 16, 1099-1111. | 3.3 | 60 |
| 70 | Nonlinear Control of a Small Four-Rotor Rotorcraft. , 2005, , 147-177. | | 0 |
| 71 | Robust prediction-based control for unstable delay systems: Application to the yaw control of a mini-helicopter. <i>Automatica</i> , 2004, 40, 603-612. | 5.0 | 150 |
| 72 | Robust Prediction-Dased Control for Unstable Delay Systems. <i>Lecture Notes in Computational Science and Engineering</i> , 2004, , 311-325. | 0.3 | 3 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | Robust prediction-based control for unstable delay systems. , 0, , . | | 2 |