

Filippo Cacace

List of Publications by Year in descending order

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105
papers

1,429
citations

430754

18
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434063

31
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107
all docs

107
docs citations

107
times ranked

896
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | An observer for a class of nonlinear systems with time varying observation delay. Systems and Control Letters, 2010, 59, 305-312. | 1.3 | 121 |
| 2 | A New Approach to Design Interval Observers for Linear Systems. IEEE Transactions on Automatic Control, 2015, 60, 1665-1670. | 3.6 | 106 |
| 3 | A Chain Observer for Nonlinear Systems with Multiple Time-Varying Measurement Delays. SIAM Journal on Control and Optimization, 2014, 52, 1862-1885. | 1.1 | 88 |
| 4 | Integrating object-oriented data modelling with a rule-based programming paradigm. , 1990, , . | | 83 |
| 5 | Luenberger-Like Observers for Nonlinear Time-Delay Systems with Application to the Artificial Pancreas: The Attainment of Good Performance. IEEE Control Systems, 2017, 37, 33-49. | 1.0 | 75 |
| 6 | Output feedback control of linear systems with input, state and output delays by chains of predictors. Automatica, 2017, 85, 455-461. | 3.0 | 48 |
| 7 | Stabilization of strict-feedback nonlinear systems with input delay using closed-loop predictors. International Journal of Robust and Nonlinear Control, 2016, 26, 3524-3540. | 2.1 | 46 |
| 8 | Seamless internetworking of WLANs and cellular networks: architecture and performance issues in a mobile IPv6 scenario. IEEE Personal Communications, 2005, 12, 73-80. | 4.5 | 44 |
| 9 | Managing mobility and adaptation in upcoming 802.21 enabled devices. , 2006, , . | | 38 |
| 10 | Vertical handoff performance in heterogeneous networks. , 2004, , . | | 36 |
| 11 | Distributed Kalman Filtering Over Sensor Networks With Unknown Random Link Failures. , 2018, 2, 587-592. | | 35 |
| 12 | Optimal Impulsive Control With Application to Antiangiogenic Tumor Therapy. IEEE Transactions on Control Systems Technology, 2020, 28, 106-117. | 3.2 | 33 |
| 13 | Predictor-based control of linear systems with large and variable measurement delays. International Journal of Control, 2014, 87, 704-714. | 1.2 | 31 |
| 14 | Exponential stabilization of linear systems with time-varying delayed state feedback via partial spectrum assignment. Systems and Control Letters, 2014, 69, 47-52. | 1.3 | 31 |
| 15 | Optimal control of linear systems with large and variable input delays. Systems and Control Letters, 2016, 89, 1-7. | 1.3 | 29 |
| 16 | Asymptotically optimal consensus-based distributed filtering of continuous-time linear systems. Automatica, 2020, 122, 109189. | 3.0 | 27 |
| 17 | A New Approach to the Internally Positive Representation of Linear MIMO Systems. IEEE Transactions on Automatic Control, 2012, 57, 119-134. | 3.6 | 25 |
| 18 | Internally Positive Representation of a Class of Continuous Time Systems. IEEE Transactions on Automatic Control, 2012, 57, 3158-3163. | 3.6 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Memoryless Approach to the LQ and LQG Problems With Variable Input Delay. IEEE Transactions on Automatic Control, 2016, 61, 216-221. | 3.6 | 22 |
| 20 | OpenCAPWAP: An open source CAPWAP implementation for the management and configuration of WiFi hot-spots. Computer Networks, 2009, 53, 217-230. | 3.2 | 20 |
| 21 | Closed-loop control of tumor growth by means of anti-angiogenic administration. Mathematical Biosciences and Engineering, 2018, 15, 827-839. | 1.0 | 20 |
| 22 | Analysis and Experimentation over Heterogeneous Wireless Networks. , 0, , . | | 18 |
| 23 | A stability with optimality analysis of consensus-based distributed filters for discrete-time linear systems. Automatica, 2021, 129, 109589. | 3.0 | 18 |
| 24 | Topology-induced containment for general linear systems on weakly connected digraphs. Automatica, 2021, 131, 109734. | 3.0 | 17 |
| 25 | Mobility Management for VoIP on Heterogeneous Networks: Evaluation of Adaptive Schemes. IEEE Transactions on Mobile Computing, 2007, 6, 1035-1047. | 3.9 | 16 |
| 26 | An exponential observer with delay-dependent gain for a class of nonlinear systems with time-varying measurement delay. , 2012, , . | | 15 |
| 27 | Stable Internally Positive Representations of Continuous Time Systems. IEEE Transactions on Automatic Control, 2014, 59, 1048-1053. | 3.6 | 15 |
| 28 | Feedback polynomial filtering and control of non-Gaussian linear time-varying systems. Systems and Control Letters, 2019, 123, 108-115. | 1.3 | 15 |
| 29 | Filtering Continuous-Time Linear Systems With Time-Varying Measurement Delay. IEEE Transactions on Automatic Control, 2015, 60, 1368-1373. | 3.6 | 14 |
| 30 | Feedback quadratic filtering. Automatica, 2017, 82, 158-164. | 3.0 | 14 |
| 31 | A survey of parallel execution strategies for transitive closure and logic programs. Distributed and Parallel Databases, 1993, 1, 337-382. | 1.0 | 13 |
| 32 | Stochastic Modeling of Expression Kinetics Identifies Messenger Half-Lives and Reveals Sequential Waves of Co-ordinated Transcription and Decay. PLoS Computational Biology, 2012, 8, e1002772. | 1.5 | 12 |
| 33 | Predictor-based control of stochastic systems with nonlinear diffusions and input delay. Automatica, 2019, 107, 43-51. | 3.0 | 12 |
| 34 | Delay identification for a class of nonlinear systems. International Journal of Control, 2016, 89, 2350-2359. | 1.2 | 11 |
| 35 | Kalman-like filtering with intermittent observations and non-Gaussian noise. IFAC-PapersOnLine, 2019, 52, 61-66. | 0.5 | 11 |
| 36 | An overview of parallel strategies for transitive closure on algebraic machines. Lecture Notes in Computer Science, 1991, , 44-62. | 1.0 | 11 |

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|----|---|-----|-----------|
| 37 | An efficient approach to the design of observers for continuous-time systems with discrete-time measurements. , 2011, , . | | 10 |
| 38 | A CAPWAP-based solution for frequency planning in large scale networks of WiFi Hot-Spots. Computer Communications, 2011, 34, 1283-1293. | 3.1 | 10 |
| 39 | Cooperative Filtering with Absolute and Relative Measurements. , 2018, , . | | 10 |
| 40 | LQ Non-Gaussian Regulator With Markovian Control. , 2019, 3, 679-684. | | 9 |
| 41 | LTV stochastic systems stabilization with large and variable input delay. Automatica, 2021, 123, 109305. | 3.0 | 9 |
| 42 | Filtering linear systems with large time-varying measurement delays. Automatica, 2022, 136, 110084. | 3.0 | 9 |
| 43 | Adaptive streaming on heterogeneous networks. , 2005, , . | | 8 |
| 44 | The observer follower filter: A new approach to nonlinear suboptimal filtering. Automatica, 2013, 49, 548-553. | 3.0 | 8 |
| 45 | Joint State Estimation and Delay Identification for Nonlinear Systems With Delayed Measurements. IEEE Transactions on Automatic Control, 2017, 62, 4848-4854. | 3.6 | 8 |
| 46 | Filtering of systems with nonlinear measurements with an application to target tracking. International Journal of Robust and Nonlinear Control, 2019, 29, 4956-4970. | 2.1 | 8 |
| 47 | An Enhanced Observer for Nonlinear Systems With Time-Varying Measurement Delays. IEEE Transactions on Automatic Control, 2021, 66, 5968-5973. | 3.6 | 8 |
| 48 | Designing and prototyping data-intensive applications in the Logres and Algres programming environment. IEEE Transactions on Software Engineering, 1992, 18, 534-546. | 4.3 | 7 |
| 49 | Observer-based techniques for the identification and analysis of avascular tumor growth. Mathematical Biosciences, 2011, 234, 147-153. | 0.9 | 7 |
| 50 | The state observer as a tool for the estimation of gene expression. Journal of Mathematical Analysis and Applications, 2012, 391, 382-396. | 0.5 | 7 |
| 51 | A state predictor for continuous-time stochastic systems. Systems and Control Letters, 2016, 98, 37-43. | 1.3 | 7 |
| 52 | Observability through delayed measurements: a new approach to state observers design. International Journal of Control, 2010, 83, 2395-2410. | 1.2 | 6 |
| 53 | State Feedback Stabilization of Linear Systems with Unknown Input Time Delay. IFAC-PapersOnLine, 2017, 50, 1245-1250. | 0.5 | 6 |
| 54 | The Polynomial Approach to the LQ non-Gaussian Regulator Problem through Output Injection. IEEE Transactions on Automatic Control, 2018, , 1-1. | 3.6 | 6 |

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|----|--|-----|-----------|
| 55 | Predictor-Based Output-Feedback Control of Linear Stochastic Systems With Large I/O Delays. IEEE Transactions on Automatic Control, 2021, 66, 307-313. | 3.6 | 6 |
| 56 | Quadratic filtering of non-Gaussian systems with intermittent observations. , 2013, , . | | 5 |
| 57 | A chain approach for state observation of a class of MIMO nonlinear systems with time-varying output delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 546-551. | 0.4 | 5 |
| 58 | On parameter estimation of Hestonâ€™s stochastic volatility model: a polynomial filtering method. Decisions in Economics and Finance, 2019, 42, 503-525. | 1.1 | 5 |
| 59 | A Reactive Approach to QoS Provisioning in IEEE 802.11e WLANs. , 2008, , . | | 4 |
| 60 | An Improved Approach to the LQ non-Gaussian Regulator Problem. IFAC-PapersOnLine, 2017, 50, 11808-11813. | 0.5 | 4 |
| 61 | Optimal Continuous-Discrete Linear Filter and Moment Equations for Nonlinear Diffusions. IEEE Transactions on Automatic Control, 2020, 65, 3961-3976. | 3.6 | 4 |
| 62 | Optimal linear and quadratic estimators for tracking from distance measurements. Systems and Control Letters, 2020, 139, 104674. | 1.3 | 4 |
| 63 | QoS Provisioning in IEEE 802.11e WLANs through Reactive Monitoring. , 2007, , . | | 3 |
| 64 | A state observer approach to filter stochastic nonlinear differential systems. , 2011, , . | | 3 |
| 65 | A Carleman discretization approach to filter nonlinear stochastic systems with sampled measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9534-9539. | 0.4 | 3 |
| 66 | A new method for the simultaneous estimation of state and delay in time delay systems. , 2015, , . | | 3 |
| 67 | Optimal linear filter for a class of nonlinear stochastic differential systems with discrete measurements. , 2017, , . | | 3 |
| 68 | Output transformations and separation results for feedback linearisable delay systems. International Journal of Control, 2018, 91, 797-812. | 1.2 | 3 |
| 69 | Representation on a class of polynomial MIMO systems via positive realizations. , 2009, , . | | 3 |
| 70 | A new approach to nonlinear filtering via a mixed state observer and polynomial scheme. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4477-4482. | 0.4 | 2 |
| 71 | Optimal reduced-order quadratic solution for the non-Gaussian finite-horizon regulator problem. , 2013, , . | | 2 |
| 72 | Quadratic Filtering of non-Gaussian Linear Systems with Random Observation Matrices. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 2370-2375. | 0.4 | 2 |

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|----|--|-----|-----------|
| 73 | A state observer for nonlinear systems with large and variable measurement delays. , 2015, , . | | 2 |
| 74 | White Noise Solution for Nonlinear Stochastic Systems. IFAC-PapersOnLine, 2016, 49, 327-332. | 0.5 | 2 |
| 75 | Comments on "Distributed information-weighted Kalman consensus filter for sensor networks". Automatica, 2019, 109, 108552. | 3.0 | 2 |
| 76 | Distributed infinite-horizon optimal control of continuous-time linear systems over network. International Journal of Robust and Nonlinear Control, 2021, 31, 2082-2096. | 2.1 | 2 |
| 77 | Dynamic Configuration of MAC QoS Mechanisms in 802.11 Access Networks. Lecture Notes in Computer Science, 2006, , 542-553. | 1.0 | 2 |
| 78 | The sol object-oriented database language. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 1992, , 105-127. | 0.2 | 1 |
| 79 | OpenCAPWAP: an open-source CAPWAP implementation for management and QoS support. , 2008, , . | | 1 |
| 80 | A method for Internally Positive Realization of continuous time systems. , 2010, , . | | 1 |
| 81 | The roots of unity and a direct method for the computation of stable Internal Positive Representations of linear systems. , 2011, , . | | 1 |
| 82 | The Observer Follower Filter for stochastic differential systems with sampled measurements. , 2013, , . | | 1 |
| 83 | Partial Spectrum Assignment for Systems with Delayed State Feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 18-23. | 0.4 | 1 |
| 84 | Quadratic filtering for non-Gaussian and not asymptotically stable linear discrete-time systems. , 2014, , . | | 1 |
| 85 | Remarks on "Distributed synchronization under uncertainty: A fuzzy approach". Fuzzy Sets and Systems, 2014, 235, 101-103. | 1.6 | 1 |
| 86 | A new filtering approach for continuous-time linear systems with delayed measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3745-3750. | 0.4 | 1 |
| 87 | Carleman discretization of impulsive systems: application to the optimal control problem of anti-angiogenic tumor therapies. , 2016, , . | | 1 |
| 88 | Karpelevich Theorem and the positive realization of matrices. , 2019, , . | | 1 |
| 89 | Filtering discrete-time systems with multiplicative noise in L2 spaces with applications. , 2021, , 1-1. | | 1 |
| 90 | Advanced Relational Programming. , 1996, , . | | 1 |

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| 91 | The LOGRES prototype. SIGMOD Record, 1993, 22, 550-551. | 0.7 | 0 |
| 92 | Set-Oriented retrieval of complex objects in inheritance hierarchies. Computing (Vienna/New York), 1995, 55, 55-73. | 3.2 | 0 |
| 93 | Admission control of VoIP calls in EDCA WLANs: Analysis and experimentation. , 2008, , . | | 0 |
| 94 | Observer-based identification of a Multi-Output Feedforward Loop from gene expression data. , 2009, , . | | 0 |
| 95 | Discrete-time models for gene transcriptional regulation networks. , 2010, , . | | 0 |
| 96 | Discussion on "Estimation of linear positive systems with unknown time-varying delays". European Journal of Control, 2013, 19, 188-189. | 1.6 | 0 |
| 97 | Filtering of nonlinear systems with sampled noisy data by output injection. , 2013, , . | | 0 |
| 98 | A Positive Observer for Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 5357-5362. | 0.4 | 0 |
| 99 | The feedback theorem for sub-optimal filters. , 2016, , . | | 0 |
| 100 | LQ non-Gaussian Control with I/O packet losses. , 2020, , . | | 0 |
| 101 | Management, Monitoring and QoS in Multi-cell Centralized WLANs. , 2010, , 197-229. | | 0 |
| 102 | Management, Monitoring and QoS in Multi-cell Centralized WLANs. , 2013, , 177-209. | | 0 |
| 103 | Asymptotically Optimal Distributed Filtering of Continuous-Time Linear Systems. IFAC-PapersOnLine, 2020, 53, 3242-3247. | 0.5 | 0 |
| 104 | Control of Flexible Euler-Bernoulli Beam with Input/Output Delay and Stochastic Disturbances. IFAC-PapersOnLine, 2020, 53, 7593-7598. | 0.5 | 0 |
| 105 | In-Silico Prediction of Oral Drug Bioavailability: A multi-boluses approach. Medical Engineering and Physics, 2021, 98, 140-150. | 0.8 | 0 |