

Constantino Lagoa

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

1,334
citations

430442

18
h-index

454577

30
g-index

120
all docs

120
docs citations

120
times ranked

1032
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Affective judgments, environmental determinants, and physical activity in emerging and young adults. <i>Psychology and Health</i> , 2024, 39, 479-498. | 1.2 | 0 |
| 2 | Fast Stochastic MPC Implementation via Policy Learning. , 2022, 6, 3020-3025. | | 2 |
| 3 | Seasons, weather, and device-measured movement behaviors: a scoping review from 2006 to 2020. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2021, 18, 24. | 2.0 | 87 |
| 4 | Ergodic Opinion Dynamics Over Networks: Learning Influences From Partial Observations. <i>IEEE Transactions on Automatic Control</i> , 2021, 66, 2709-2723. | 3.6 | 8 |
| 5 | Steps towards digital tools for personalised physical activity promotion. <i>British Journal of Sports Medicine</i> , 2021, , bjsports-2021-104169. | 3.1 | 5 |
| 6 | Learning Hidden Influences in Large-Scale Dynamical Social Networks: A Data-Driven Sparsity-Based Approach, in Memory of Roberto Tempo. <i>IEEE Control Systems</i> , 2021, 41, 61-103. | 1.0 | 19 |
| 7 | Person-specific dose-finding for a digital messaging intervention to promote physical activity.. <i>Health Psychology</i> , 2021, 40, 502-512. | 1.3 | 9 |
| 8 | Dynamic models of stress-smoking responses based on high-frequency sensor data. <i>Npj Digital Medicine</i> , 2021, 4, 162. | 5.7 | 2 |
| 9 | Quantifiable Frequency Support from Grid-Forming Converters with DC-side Current Limits in Grids with Synchronous Generators. , 2021, , . | | 2 |
| 10 | Parsimonious System Identification from Quantized Observations. , 2021, , . | | 1 |
| 11 | Malicious Corruption Resilience in PMU Data and Wide-Area Damping Control. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 958-967. | 6.2 | 18 |
| 12 | Continuous-time model identification: application on a behavioural (miLife) study. <i>International Journal of Control</i> , 2020, , 1-12. | 1.2 | 1 |
| 13 | Design of Dynamic Inversion and Explicit Model Following Flight Control Laws for Quadrotor UAS. <i>Journal of the American Helicopter Society</i> , 2020, 65, 1-16. | 0.5 | 2 |
| 14 | Engineering Person-Specific Behavioral Interventions to Promote Physical Activity. <i>Exercise and Sport Sciences Reviews</i> , 2020, 48, 170-179. | 1.6 | 21 |
| 15 | Recursive approximation of complex behaviours with IoT-data imperfections. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2020, 7, 656-667. | 8.5 | 11 |
| 16 | Identification of switched autoregressive exogenous systems from large noisy datasets. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 5777-5801. | 2.1 | 14 |
| 17 | Temporal Dynamics of Treatment Receipt in a Text Message Intervention for Physical Activity: Single-Group, Within-Person Trial. <i>JMIR MHealth and UHealth</i> , 2020, 8, e14270. | 1.8 | 4 |
| 18 | Probabilistic Discrete Time Robust H2 Controller Design. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Identification of Markov Jump Autoregressive Processes from Large Noisy Data Sets. IFAC-PapersOnLine, 2020, 53, 1077-1083. | 0.5 | 0 |
| 20 | Abstract P196: Personalized Dynamical System Models Of Individual Text Message Effects On Changes In Physical Activity. Circulation, 2020, 141, . | 1.6 | 1 |
| 21 | Personalized models of physical activity responses to text message micro-interventions: A proof-of-concept application of control systems engineering methods. Psychology of Sport and Exercise, 2019, 41, 172-180. | 1.1 | 48 |
| 22 | End-to-End Distributed Flow Control for Networks with Nonconcave Utilities. IEEE Transactions on Network Science and Engineering, 2019, 6, 303-313. | 4.1 | 2 |
| 23 | A fully distributed traffic allocation algorithm for nonconcave utility maximization in connectionless communication networks. Automatica, 2019, 109, 108506. | 3.0 | 7 |
| 24 | Probabilistically Robust AC Optimal Power Flow. IEEE Transactions on Control of Network Systems, 2019, 6, 1135-1147. | 2.4 | 10 |
| 25 | Comparison of Different Spike Sorting Subtechniques Based on Rat Brain Basolateral Amygdala Neuronal Activity. , 2019, , . | | 3 |
| 26 | Identification of Switched Autoregressive Systems from Large Noisy Data Sets. , 2019, , . | | 6 |
| 27 | Hankel Matrix Rank as Indicator of Ghost in Bearing-Only Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2713-2723. | 2.6 | 3 |
| 28 | A Randomized Algorithm for Parsimonious Model Identification. IEEE Transactions on Automatic Control, 2018, 63, 532-539. | 3.6 | 17 |
| 29 | Applying sum of squares decomposition technique to power system robust control problem. IEEE Transactions on Electrical and Electronic Engineering, 2018, 13, 218-225. | 0.8 | 0 |
| 30 | Bridging the gap between sensor noise modeling and sensor characterization. Measurement: Journal of the International Measurement Confederation, 2018, 116, 350-366. | 2.5 | 36 |
| 31 | Randomized opinion dynamics over networks: influence estimation from partial observations. , 2018, , . | | 6 |
| 32 | Parsimonious Volterra System Identification. , 2018, , . | | 4 |
| 33 | Recursive Parsimonious System Identification Algorithm for Dynamical Systems. , 2018, , . | | 0 |
| 34 | Governing Dynamics of Crude Oil and LNG Prices. , 2018, , . | | 0 |
| 35 | Probability Maximization with Random Linear Inequalities: Alternative Formulations and Stochastic Approximation Schemes. , 2018, , . | | 1 |
| 36 | Predictive analytics of crude oil prices by utilizing the intelligent model search engine. Applied Energy, 2018, 228, 2387-2397. | 5.1 | 19 |

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| 37 | Simple approximations of semialgebraic sets and their applications to control. <i>Automatica</i> , 2017, 78, 110-118. | 3.0 | 21 |
| 38 | A linear temporal logic based approach for vehicle motion planning. , 2017, , . | | 1 |
| 39 | Validation of Model Order Assumption and Noise Reduction Method for the Impact Resonance Testing of Asphalt Concrete. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1. | 1.1 | 7 |
| 40 | Evaluating the effect of smoking cessation treatment on a complex dynamical system. <i>Drug and Alcohol Dependence</i> , 2017, 180, 215-222. | 1.6 | 15 |
| 41 | A Sum-of-Squares Polynomial Approach for Road Anomaly Detection Using Vehicle Sensor Measurements. , 2017, , . | | 2 |
| 42 | Control Engineering Methods for the Design of Robust Behavioral Treatments. <i>IEEE Transactions on Control Systems Technology</i> , 2017, 25, 979-990. | 3.2 | 18 |
| 43 | A nonlinear term selection method for improving synchronous machine parameters estimation. <i>International Journal of Electrical Power and Energy Systems</i> , 2017, 85, 77-86. | 3.3 | 8 |
| 44 | System Identification Algorithm for Non-Uniformly Sampled Data * *This study was partially supported by National Institutes of Health (NIH) grant P50 DA039838 and National Science Foundation (NSF) Grants CNS-1329422 and ECCS-1201973 and the Berkeley Education Alliance for Research in Singapore (BEARS) for the Singapore-Berkeley Building Efficiency and Sustainability in the Tropics (SinBerBEST) Program. The work described is the sole responsibility of the authors and does not necessarily represent the offici. <i>IFAC-PapersOnLine</i> , 2017, 50, 7296-7301. | 0.5 | 2 |
| 45 | A Method for Identification of Markovian Jump ARX Processes. <i>IFAC-PapersOnLine</i> , 2017, 50, 14088-14093. | 0.5 | 9 |
| 46 | Suboptimal H_2 Control of Switched Linear Models: a Superstability Approach * *This work was supported in part by NSF grants IIS-1318145, ECCS-1404163, CMMI-1638234 CNS-1329422 and ECCS-1201973; AFOSR grant FA9550-15-1-0392; and the Alert DHS Center of Excellence under Award Number 2013-ST-061-ED0001.. <i>IFAC-PapersOnLine</i> , 2017, 50, 14380-14385. | 0.5 | 0 |
| 47 | A distributed algorithm with consistency for PageRank-like linear algebraic systems * *Research partially supported by grant OptHySYS funded by the University of Trento, and by grant PowerLyap funded by CaRiTRo and National Science Foundation (NSF) Grants CNS-1329422 and ECCS-1201973.. <i>IFAC-PapersOnLine</i> , 2017, 50, 5172-5177. | 0.5 | 1 |
| 48 | Non-concave network utility maximization: A distributed optimization approach. , 2017, , . | | 7 |
| 49 | An Internet of Things compliant model identification methodology for smart buildings. , 2017, , . | | 5 |
| 50 | Non-concave network utility maximization in connectionless networks: A fully distributed traffic allocation algorithm. , 2017, , . | | 6 |
| 51 | Computer vision-based control of an autonomous blimp. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016, 24, 4015-4026. | 0.9 | 0 |
| 52 | Robust stabilization of discrete-time piecewise affine systems subject to bounded disturbances. , 2016, , . | | 2 |
| 53 | Convex Chance Constrained Model Predictive Control. , 2016, , . | | 13 |
| 54 | Optimization-based, QoS-aware distributed traffic control laws for networks with time-varying link capacities. <i>Automatica</i> , 2016, 72, 158-165. | 3.0 | 2 |

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|----|---|-----|-----------|
| 55 | An efficient approach to the radar ghost elimination problem. , 2016, , . | | 3 |
| 56 | On the mathematical modeling of the effect of treatment on human physical activity. , 2016, , . | | 8 |
| 57 | Distributional Robustness Analysis for Nonlinear Uncertainty Structures. IEEE Transactions on Automatic Control, 2016, 61, 1900-1905. | 3.6 | 0 |
| 58 | Randomized Approximations of the Image Set of Nonlinear Mappings with Applications to Filtering—This research was partly funded by CNR-CNRS bilateral project No. 134562. IFAC-PapersOnLine, 2015, 48, 37-42. | 0.5 | 2 |
| 59 | Low-order model identification of MIMO systems from noisy and incomplete data. , 2015, , . | | 7 |
| 60 | Robust Superstabilizing Controller Design from Open-Loop Experimental Input/Output Data**This work was supported in part by NSF grants IIS-1318145 and ECCS-1404163; AFOSR grant FA9550-12-1-0271, and the Alert DHS Center of Excellence under Award Number 2008-ST-061-ED0001.. IFAC-PapersOnLine, 2015, 48, 1337-1342. | 0.5 | 6 |
| 61 | Semidefinite Programming For Chance Constrained Optimization Over Semialgebraic Sets. SIAM Journal on Optimization, 2015, 25, 1411-1440. | 1.2 | 29 |
| 62 | Integrated, Distributed Traffic Control in Multidomain Networks. IEEE Transactions on Control Systems Technology, 2015, 23, 1373-1386. | 3.2 | 8 |
| 63 | Set membership identification of switched linear systems with known number of subsystems. Automatica, 2015, 51, 180-191. | 3.0 | 52 |
| 64 | Vehicle Localization Using In-Vehicle Pitch Data and Dynamical Models. IEEE Transactions on Intelligent Transportation Systems, 2015, 16, 206-220. | 4.7 | 37 |
| 65 | Random geometric graphs as a model for bounding the endurance of soaring aircraft. , 2014, , . | | 2 |
| 66 | Uniform sample generation in semialgebraic sets. , 2014, , . | | 2 |
| 67 | Surviving the upcoming data deluge: A systems and control perspective. , 2014, , . | | 6 |
| 68 | Reconstruction of support of a measure from its moments. , 2014, , . | | 1 |
| 69 | Robust data map design using chance constrained optimization. , 2014, , . | | 1 |
| 70 | Parsimonious model identification via atomic norm minimization. , 2014, , . | | 11 |
| 71 | Convex Certificates for Model (In)validation of Switched Affine Systems With Unknown Switches. IEEE Transactions on Automatic Control, 2014, 59, 2921-2932. | 3.6 | 31 |
| 72 | Designing adaptive intensive interventions using methods from engineering.. Journal of Consulting and Clinical Psychology, 2014, 82, 868-878. | 1.6 | 27 |

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| 73 | Multi-attribute data dynamics discontinuity identification: A probabilistic approach using linear modeling. , 2014, , . | | 0 |
| 74 | Vision based control of an autonomous blimp with actuator saturation using pulse-width modulation. , 2013, , . | | 3 |
| 75 | Convex relaxations of a probabilistically robust control design problem. , 2013, , . | | 9 |
| 76 | A robust MPC approach to the design of behavioural treatments. , 2013, , . | | 2 |
| 77 | Robust map design by outlier point selection for terrain-based vehicle localization. , 2013, , . | | 5 |
| 78 | An efficient atomic norm minimization approach to identification of low order models. , 2013, , . | | 11 |
| 79 | Multiscale Autoregressive Identification of Neuroelectrophysiological Systems. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-5. | 0.7 | 0 |
| 80 | Terrain-based vehicle localization from real-time data using dynamical models. , 2012, , . | | 10 |
| 81 | A Sparsification Approach to Set Membership Identification of Switched Affine Systems. IEEE Transactions on Automatic Control, 2012, 57, 634-648. | 3.6 | 95 |
| 82 | Transfer entropy between cortical and basal ganglia electrophysiology. , 2012, , . | | 5 |
| 83 | TERSE: A Unified End-to-End Traffic Control Mechanism to Enable Elastic, Delay Adaptive, and Rate Adaptive Services. IEEE Journal on Selected Areas in Communications, 2011, 29, 938-950. | 9.7 | 11 |
| 84 | A Kinship Function Approach to Robust and Probabilistic Optimization Under Polynomial Uncertainty. IEEE Transactions on Automatic Control, 2011, 56, 1509-1523. | 3.6 | 17 |
| 85 | Terrain-Aided Localization Using Feature-Based Particle Filtering. , 2011, , . | | 5 |
| 86 | Convex relaxations for robust identification of Wiener systems and applications. , 2011, , . | | 7 |
| 87 | A moments-based approach to estimation and data interpolation for a class of Wiener systems. , 2010, , . | | 5 |
| 88 | On the complexity of randomized approximations of nonconvex sets. , 2010, , . | | 5 |
| 89 | Model (in) validation of switched ARX systems with unknown switches and its application to activity monitoring. , 2010, , . | | 14 |
| 90 | GPCA with denoising: A moments-based convex approach. , 2010, , . | | 11 |

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| 91 | Robust identification of switched affine systems via moments-based convex optimization. , 2009, , . | | 32 |
| 92 | Distributional robustness analysis for polynomial uncertainty. , 2009, , . | | 3 |
| 93 | Utility function of TCP. Computer Communications, 2009, 32, 800-805. | 3.1 | 7 |
| 94 | Hard Bounds on the Probability of Performance With Application to Circuit Analysis. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 3178-3187. | 3.5 | 10 |
| 95 | RACT - Randomized Algorithms Control Toolbox: A Tutorial Introduction. , 2008, , . | | 0 |
| 96 | A sparsification approach to set membership identification of a class of affine hybrid systems. , 2008, , . | | 37 |
| 97 | A family of optimization-based traffic control laws for overlay networks. , 2007, , . | | 0 |
| 98 | Risk adjusted identification of a class of nonlinear systems. , 2007, , . | | 3 |
| 99 | End-to-End Optimal Algorithms for Integrated QoS, Traffic Engineering, and Failure Recovery. IEEE/ACM Transactions on Networking, 2007, 15, 813-823. | 2.6 | 38 |
| 100 | A risk adjusted approach to robust simultaneous fault detection and isolation. Automatica, 2007, 43, 499-504. | 3.0 | 14 |
| 101 | An integrated, distributed traffic control strategy for the future internet. , 2006, , . | | 4 |
| 102 | Robust Observer Design for a Class of Switched Systems. , 2006, , . | | 10 |
| 103 | Autonomic Interference Avoidance with Extended Shortest Path Algorithm. Lecture Notes in Computer Science, 2006, , 57-66. | 1.0 | 0 |
| 104 | Sampling Random Transfer Functions. , 2006, , 331-363. | | 4 |
| 105 | Robust optimal control of regular languages. Automatica, 2005, 41, 1439-1445. | 3.0 | 2 |
| 106 | Robust Optimal Control of Regular Languages. , 2005, , 71-93. | | 3 |
| 107 | Optimal Supervisory Control of Regular Languages. , 2005, , 39-69. | | 0 |
| 108 | Probabilistically Constrained Linear Programs and Risk-Adjusted Controller Design. SIAM Journal on Optimization, 2005, 15, 938-951. | 1.2 | 57 |

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| 109 | Decentralized optimal traffic engineering in connectionless networks. IEEE Journal on Selected Areas in Communications, 2005, 23, 293-303. | 9.7 | 25 |
| 110 | Adaptive Control Algorithms for Decentralized Optimal Traffic Engineering in the Internet. IEEE/ACM Transactions on Networking, 2004, 12, 415-428. | 2.6 | 55 |
| 111 | Unconstrained optimal control of regular languages. Automatica, 2004, 40, 639-646. | 3.0 | 32 |
| 112 | Optimal supervisory control of finite state automata. International Journal of Control, 2004, 77, 1083-1100. | 1.2 | 26 |
| 113 | OPTIMAL SUPERVISORY CONTROL OF REGULAR LANGUAGES. Demonstratio Mathematica, 2004, 37, . | 0.6 | 0 |
| 114 | A convex parametrization of risk-adjusted stabilizing controllers. Automatica, 2003, 39, 1829-1835. | 3.0 | 4 |
| 115 | OPTIMAL DECENTRALIZED ALGORITHMS FOR TRAFFIC ENGINEERING IN THE INTERNET. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 389-394. | 0.4 | 1 |
| 116 | Decentralized optimal traffic engineering in the internet. Computer Communication Review, 2000, 30, 39-47. | 1.5 | 25 |