

Xianwei Li

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,895
citations

257450

24
h-index

289244

40
g-index

68
all docs

68
docs citations

68
times ranked

2213
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Data-Based Techniques Focused on Modern Industry: An Overview. IEEE Transactions on Industrial Electronics, 2015, 62, 657-667. | 7.9 | 822 |
| 2 | Consensus of multi-agent systems via fully distributed event-triggered control. Automatica, 2020, 116, 108898. | 5.0 | 208 |
| 3 | A New Model Transformation of Discrete-Time Systems With Time-Varying Delay and Its Application to Stability Analysis. IEEE Transactions on Automatic Control, 2011, 56, 2172-2178. | 5.7 | 198 |
| 4 | Adaptive Event-Triggered Consensus of Multiagent Systems on Directed Graphs. IEEE Transactions on Automatic Control, 2021, 66, 1670-1685. | 5.7 | 168 |
| 5 | Robust finite frequency H_∞ filtering for uncertain 2-D Roesser systems. Automatica, 2012, 48, 1163-1170. | 5.0 | 143 |
| 6 | H_∞ Filtering for Discrete-Time State-Delayed Systems With Finite Frequency Specifications. IEEE Transactions on Automatic Control, 2011, 56, 2935-2941. | 5.7 | 134 |
| 7 | H_∞ and H_2 filtering for linear systems with uncertain Markov transitions. Automatica, 2016, 67, 252-266. | 5.0 | 99 |
| 8 | A Unified Approach to the Stability of Generalized Static Neural Networks With Linear Fractional Uncertainties and Delays. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1275-1286. | 5.0 | 94 |
| 9 | A Heuristic Approach to Static Output-Feedback Controller Synthesis With Restricted Frequency-Domain Specifications. IEEE Transactions on Automatic Control, 2014, 59, 1008-1014. | 5.7 | 92 |
| 10 | Generalized Kalman-Yakubovich-Popov Lemma for 2-D FM LSS Model. IEEE Transactions on Automatic Control, 2012, 57, 3090-3103. | 5.7 | 86 |
| 11 | Robust finite frequency H_∞ filtering for uncertain 2-D systems: The FM model case. Automatica, 2013, 49, 2446-2452. | 5.0 | 77 |
| 12 | Passivity-preserving model reduction with finite frequency H_∞ approximation performance. Automatica, 2014, 50, 2294-2303. | 5.0 | 63 |
| 13 | Output-feedback protocols without controller interaction for consensus of homogeneous multi-agent systems: A unified robust control view. Automatica, 2017, 81, 37-45. | 5.0 | 62 |
| 14 | Robust consensus of uncertain linear multi-agent systems via dynamic output feedback. Automatica, 2018, 98, 114-123. | 5.0 | 57 |
| 15 | Load Mitigation for a Floating Wind Turbine via Generalized Structural Control. IEEE Transactions on Industrial Electronics, 2016, 63, 332-342. | 7.9 | 55 |
| 16 | Delay-independent stability analysis of linear time-delay systems based on frequency discretization. Automatica, 2016, 70, 288-294. | 5.0 | 49 |
| 17 | Improved results on H_∞ model reduction for Markovian jump systems with partly known transition probabilities. Systems and Control Letters, 2014, 70, 109-117. | 5.0 | 40 |
| 18 | A Novel Reduced-Order Protocol for Consensus Control of Linear Multiagent Systems. IEEE Transactions on Automatic Control, 2019, 64, 3005-3012. | 5.7 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A frequency-partitioning approach to stability analysis of two-dimensional discrete systems. <i>Multidimensional Systems and Signal Processing</i> , 2015, 26, 67-93. | 2.6 | 34 |
| 20 | Further results on H_∞ filtering for discrete-time systems with state delay. <i>International Journal of Robust and Nonlinear Control</i> , 2011, 21, 248-270. | 3.7 | 30 |
| 21 | Frequency-Limited H_∞ Model Reduction for Positive Systems. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 1093-1098. | 5.7 | 30 |
| 22 | Bearing-Only Formation Tracking Control of Multi-Agent Systems With Local Reference Frames and Constant-Velocity Leaders. , 2021, 5, 1-6. | | 29 |
| 23 | Robust Filtering for Uncertain Systems. <i>Communications and Control Engineering</i> , 2014, , . | 1.6 | 27 |
| 24 | Robust Frequency-Domain Constrained Feedback Design via a Two-Stage Heuristic Approach. <i>IEEE Transactions on Cybernetics</i> , 2015, 45, 2065-2075. | 9.5 | 27 |
| 25 | Fully Distributed Consensus Control for Linear Multiagent Systems: A Reduced-Order Adaptive Feedback Approach. <i>IEEE Transactions on Control of Network Systems</i> , 2020, 7, 967-976. | 3.7 | 27 |
| 26 | Reduced-Order Generalized H_∞ Filtering for Linear Discrete-Time Systems With Application to Channel Equalization. <i>IEEE Transactions on Signal Processing</i> , 2014, 62, 3393-3402. | 5.3 | 23 |
| 27 | Cooperative Output Regulation of Heterogeneous Linear Multi-Agent Networks via H_∞ Performance Allocation. <i>IEEE Transactions on Automatic Control</i> , 2018, , 1-1. | 5.7 | 21 |
| 28 | Finite-frequency H_∞ control for offshore platforms subject to parametric model uncertainty and practical hard constraints. <i>ISA Transactions</i> , 2018, 83, 53-65. | 5.7 | 21 |
| 29 | A delay-dependent approach to robust generalized H_2 filtering for uncertain continuous-time systems with interval delay. <i>Signal Processing</i> , 2011, 91, 2371-2378. | 3.7 | 20 |
| 30 | Design of Δ -sigma modulators via generalized Kalman-Yakubovich-Popov lemma. <i>Automatica</i> , 2014, 50, 2700-2708. | 5.0 | 20 |
| 31 | Generalized H_∞ model reduction for stable two-dimensional discrete systems. <i>Multidimensional Systems and Signal Processing</i> , 2016, 27, 359-382. | 2.6 | 20 |
| 32 | Finite-Time Cooperative Control for Bearing-Defined Leader-Following Formation of Multiple Double-Integrators. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 13363-13372. | 9.5 | 14 |
| 33 | Design of output-feedback protocols for robust consensus of uncertain linear multi-agent systems. , 2017, , . | | 8 |
| 34 | Finite Frequency H_∞ Deconvolution With Application to Approximated Bandlimited Signal Recovery. <i>IEEE Transactions on Automatic Control</i> , 2018, 63, 203-210. | 5.7 | 8 |
| 35 | An iterative LMI approach to IIR noise transfer function optimization for Δ -sigma modulators. , 2013, , . | | 5 |
| 36 | Consensus of homogeneous multi-agent systems via output-feedback protocols without controller interaction: A unified robust control view. , 2016, , . | | 5 |

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|----|---|-----|-----------|
| 37 | A Dynamic Event-Triggered Approach to Multi-Agent Consensus. , 2020, , . | | 5 |
| 38 | Mixed Additive/Multiplicative H $\hat{\infty}$ Model Reduction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, . | 1.6 | 4 |
| 39 | Min-Max Approximation of Transfer Functions With Application to Filter Design. IEEE Transactions on Signal Processing, 2015, 63, 31-40. | 5.3 | 4 |
| 40 | Distributed model predictive control for multi-robot systems with conflicting signal temporal logic tasks. IET Control Theory and Applications, 2022, 16, 554-572. | 2.1 | 4 |
| 41 | Further control synthesis for time-delay systems with actuator saturation. Journal of Control Theory and Applications, 2013, 11, 128-131. | 0.8 | 3 |
| 42 | Output-feedback H ∞ consensus of linear multi-agent systems over general directed graphs. , 2017, , . | | 3 |
| 43 | Event- Triggered Consensus of Multi-Agent Systems on Strongly Connected Graphs. , 2018, , . | | 3 |
| 44 | Finite frequency approaches to H ∞ filtering for continuous-time state-delayed systems. , 2011, , . | | 2 |
| 45 | Robust H ∞ filtering for 2-D FM systems: A finite frequency approach. , 2012, , . | | 2 |
| 46 | A New Approach to H $\hat{\infty}$ Model Reduction for Positive Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 3809-3814. | 0.4 | 2 |
| 47 | Bounded Consensus of Linear Multi-Agent Systems with External Disturbances Through a Reduced-Order Adaptive Feedback Protocol. , 2018, , . | | 2 |
| 48 | Robust Filtering for Uncertain 2-D Systems. Communications and Control Engineering, 2014, , 165-186. | 1.6 | 2 |
| 49 | Generalized Kalman-Yakubovich-Popov lemma for 2-D FM LSS model and its application to finite frequency positive real control. , 2011, , . | | 1 |
| 50 | A frequency-specific enhanced approach to transfer function approximation. , 2014, , . | | 1 |
| 51 | Robust Static Output-Feedback Control for Uncertain Linear Discrete-Time Systems via the Generalized KYP Lemma. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7430-7435. | 0.4 | 1 |
| 52 | An H $\hat{\infty}$ performance allocation approach to distributed output regulation of linear heterogeneous multi-agent systems. , 2016, , . | | 1 |
| 53 | Multi-Agent Consensus with Event-Triggered Communication and Relative Output Sensing. , 2021, , . | | 1 |
| 54 | Event-Triggered Multiagent Consensus Under Relative Output Sensing. IEEE Transactions on Cybernetics, 2024, 54, 915-928. | 9.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Relationship between Schur-decomposition based frequency weighted balanced truncation techniques. , 2014, , . | | 0 |
| 56 | Model reduction for two-dimensional systems with generalized H_{∞} approximation performance. , 2014, , . | | 0 |
| 57 | Unconstrained Distributed Model Predictive Control for Double-Integrator Systems with Switching Interaction Graph. , 2019, , . | | 0 |
| 58 | Robust Filtering for Continuous Time-Delay Systems. Communications and Control Engineering, 2014, , 125-141. | 1.6 | 0 |
| 59 | Quadratic Robust Filter Design. Communications and Control Engineering, 2014, , 25-81. | 1.6 | 0 |
| 60 | Robust Estimation with Limited Communication Capacity. Communications and Control Engineering, 2014, , 189-218. | 1.6 | 0 |
| 61 | Finite Frequency H_{∞} Filtering for Time-Delay Systems. Communications and Control Engineering, 2014, , 219-243. | 1.6 | 0 |
| 62 | Parameter-Dependent Robust Filter Design. Communications and Control Engineering, 2014, , 83-121. | 1.6 | 0 |
| 63 | Enhancing Adaptive Event-Triggered Protocols for Multi-Agent Consensus with External Disturbances. , 2020, , . | | 0 |
| 64 | Reduced-Order Output-Feedback Bipartite Consensus of Linear Multi-Agent Systems. , 2021, , . | | 0 |
| 65 | A Reduced-Order Protocol for Bipartite Consensus of Linear Multi-Agent Systems. , 2021, , . | | 0 |