

Kemin Zhou

List of Publications by Year in descending order

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71
papers

2,741
citations

623734

14
h-index

477307

29
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72
all docs

72
docs citations

72
times ranked

1140
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Multi-objective $\mathcal{H}_2/\mathcal{H}_\infty$ Control Designs. , 2021, , 1379-1389. | | 0 |
| 2 | Multi-objective $\mathcal{H}_2/\mathcal{H}_\infty$ Control Designs. , 2020, , 1-11. | | 1 |
| 3 | Revisit of LQG Control—A New Paradigm with Recovered Robustness. , 2019, , . | | 18 |
| 4 | Preclassical Tools for Postmodern Control: An Optimal and Robust Control Theory for Undergraduate Education. IEEE Control Systems, 2013, 33, 26-38. | 0.8 | 10 |
| 5 | Experimental characterization and modeling of stress-dependent hysteresis of a giant magnetostrictive actuator. Science China Technological Sciences, 2013, 56, 656-665. | 4.0 | 10 |
| 6 | Rate-dependent modeling and control of GMA based on Hammerstein model with Preisach operator. , 2012, , . | | 2 |
| 7 | A new perspective on $\mathcal{H}_2/\mathcal{H}_\infty$ controller reduction. , 2012, , . | | 0 |
| 8 | New approaches for $\mathcal{H}_2/\mathcal{H}_\infty$ performance preserving controller reduction. , 2011, , . | | 5 |
| 9 | Fault detection for linear discrete time-varying systems. , 2010, , . | | 8 |
| 10 | Fault detection for linear discrete-time invariant systems with decoupling and optimization. , 2009, , . | | 6 |
| 11 | Measurement Complexity of Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 3776-3781. | 6.3 | 0 |
| 12 | A new statistical approach for the analysis of uncertain systems. Journal of Systems Science and Complexity, 2009, 22, 1-34. | 2.8 | 5 |
| 13 | A time domain approach to robust fault detection of linear time-varying systems. Automatica, 2009, 45, 94-102. | 5.0 | 155 |
| 14 | Robust control of tonal reproduction curves for the xerographic system. , 2009, , . | | 0 |
| 15 | A Generic Model-Based Advanced Control of Electric Power-Assisted Steering Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1289-1300. | 5.2 | 80 |
| 16 | Explicit Formula for Constructing Binomial Confidence Interval with Guaranteed Coverage Probability. Communications in Statistics - Theory and Methods, 2008, 37, 1173-1180. | 1.0 | 4 |
| 17 | Robust fault diagnosis for linear time invariant uncertain systems. , 2008, , . | | 1 |
| 18 | Robustness Issues in Fault Diagnosis and Fault Tolerant Control. Journal of Control Science and Engineering, 2008, 2008, 1-2. | 1.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Optimal Robust Fault Detection for Linear Discrete Time Systems. Journal of Control Science and Engineering, 2008, 2008, 1-16. | 1.0 | 47 |
| 20 | Optimal solutions to multi-objective robust fault detection problems. , 2007, , . | | 18 |
| 21 | Optimal robust fault detection for linear discrete time systems. , 2007, , . | | 4 |
| 22 | A time domain approach to robust fault detection of linear time-varying systems. , 2007, , . | | 2 |
| 23 | Fault Tolerant Safe Flight Controller Bank11Partially supported by NASA and the Louisiana Board of Regents under research contract LEQSF(2001 04)-01. , 2007, , 807-812. | | 0 |
| 24 | On the Design of Unknown Input Observers and Fault Detection Filters. , 2006, , . | | 7 |
| 25 | FAULT TOLERANT SAFE FLIGHT CONTROLLER BANK 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 807-812. | 0.4 | 9 |
| 26 | A new family of unitary space-time codes with a fast parallel sphere decoder algorithm. IEEE Transactions on Information Theory, 2006, 52, 115-140. | 2.4 | 7 |
| 27 | Integrated Failure Accommodation Methods. , 2005, , . | | 0 |
| 28 | Fault diagnosis and reconfigurable control for flight control systems with actuator failures. , 2004, , . | | 9 |
| 29 | Mixed control design: Numerical optimization approaches. International Journal of Control, 2003, 76, 687-697. | 1.9 | 12 |
| 30 | Fast parallel-frequency-sweeping algorithms for robust D-stability margin. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 418-428. | 0.1 | 2 |
| 31 | H/sub ∞ / Gaussian filter on infinite time horizon. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 674-679. | 0.1 | 37 |
| 32 | A new controller architecture for high performance, robust, and fault-tolerant control. IEEE Transactions on Automatic Control, 2001, 46, 1613-1618. | 5.7 | 279 |
| 33 | Multiobjective oldmath\$H_t/H_f\$ Control Design. SIAM Journal on Control and Optimization, 2001, 40, 628-660. | 2.1 | 115 |
| 34 | Detection, estimation, and accommodation of loss of control effectiveness. International Journal of Adaptive Control and Signal Processing, 2000, 14, 775-795. | 4.1 | 221 |
| 35 | Control reconfigurability of linear time-invariant systems. Automatica, 2000, 36, 1767-1771. | 5.0 | 113 |
| 36 | Constrained robustness analysis by randomized algorithms. IEEE Transactions on Automatic Control, 2000, 45, 1180-1186. | 5.7 | 7 |

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| 37 | Robust stability of uncertain time-delay systems. IEEE Transactions on Automatic Control, 2000, 45, 2169-2173. | 5.7 | 123 |
| 38 | Detection, estimation, and accommodation of loss of control effectiveness. International Journal of Adaptive Control and Signal Processing, 2000, 14, 775-795. | 4.1 | 11 |
| 39 | Balanced realization and model reduction for unstable systems. International Journal of Robust and Nonlinear Control, 1999, 9, 183-198. | 3.7 | 136 |
| 40 | Finite time horizon multiobjective filtering and control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3454-3459. | 0.4 | 0 |
| 41 | Balanced realization and model reduction for unstable systems. , 1999, 9, 183. | | 2 |
| 42 | Balanced realization and model reduction for unstable systems. International Journal of Robust and Nonlinear Control, 1999, 9, 183-198. | 3.7 | 1 |
| 43 | Robust stabilization of MIMO uncertain nonlinear systems without strict feedback conditions. , 1998, , . | | 4 |
| 44 | H_{∞} identification of multivariable systems by tangential interpolation methods. IEEE Transactions on Automatic Control, 1996, 41, 1822-1828. | 5.7 | 21 |
| 45 | Frequency-weighted H_2 norm and optimal Hankel norm model reduction. IEEE Transactions on Automatic Control, 1995, 40, 1687-1699. | 5.7 | 126 |
| 46 | Mixed H_2 and H_{∞} performance objectives. I. Robust performance analysis. IEEE Transactions on Automatic Control, 1994, 39, 1564-1574. | 5.7 | 234 |
| 47 | Identification in H_{∞} via convex programming. , 1993, , . | | 1 |
| 48 | Frequency weighted model reduction with L_{∞} error bounds. , 1993, , . | | 1 |
| 49 | Robust stabilization of linear systems with norm-bounded time-varying uncertainty. Systems and Control Letters, 1988, 10, 17-20. | 2.3 | 428 |
| 50 | On the Stabilization of Uncertain Linear Systems via Bound Invariant Lyapunov Functions. SIAM Journal on Control and Optimization, 1988, 26, 1265-1273. | 2.1 | 12 |
| 51 | Robust Stabilization of Uncertain Systems. , 1988, , . | | 3 |
| 52 | Stability robustness bounds for linear state-space models with structured uncertainty. IEEE Transactions on Automatic Control, 1987, 32, 621-623. | 5.7 | 330 |
| 53 | Remarks on stochastic model reduction. IEEE Transactions on Automatic Control, 1987, 32, 356-358. | 5.7 | 8 |
| 54 | Global disturbance attenuation for MIMO nonlinear systems with controlled output containing input. , 0, , . | | 0 |

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|----|---|----|-----------|
| 55 | Balanced truncation with relative/multiplicative error bounds in $L/\sub{\hat{z}}$ norm. , 0, , . | | 1 |
| 56 | A comparative study of $\hat{\alpha},\langle/\sub{\hat{z}}$ controller reduction methods. , 0, , . | | 2 |
| 57 | Weighted $\hat{\alpha},\prime/\sub{\hat{z}}$ norm approximation. , 0, , . | | 1 |
| 58 | $H/\sub{2}$ and $H/\sub{\hat{z}}$ controller reductions with guaranteed performance. , 0, , . | | 5 |
| 59 | On mixed $H/\sub{2}/H/\sub{\hat{z}}$ control. , 0, , . | | 2 |
| 60 | On the probabilistic characterization of model uncertainty and robustness. , 0, , . | | 10 |
| 61 | A probabilistic approach to robust control. , 0, , . | | 20 |
| 62 | Robustness of a class of stabilizing controllers for bifurcated systems. , 0, , . | | 0 |
| 63 | Control effectiveness estimation using an adaptive Kalman estimator. , 0, , . | | 15 |
| 64 | Stabilization of multi-input stochastic nonlinear systems. , 0, , . | | 1 |
| 65 | Robust control of uncertain time delay systems. , 0, , . | | 17 |
| 66 | Robust stability and performance of uncertain delay systems with structured uncertainties. , 0, , . | | 3 |
| 67 | An approximation approach to decentralized $H/\sub{\hat{z}}$ control. , 0, , . | | 2 |
| 68 | Fast construction of robustness degradation function. , 0, , . | | 2 |
| 69 | Fast universal algorithms for robustness analysis. , 0, , . | | 7 |
| 70 | Optimal control of electric power-assisted steering system. , 0, , . | | 6 |
| 71 | Risk analysis in robust control - making the case for probabilistic robust control. , 0, , . | | 6 |