

Seung-Jean Kim

List of Publications by Year in descending order

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35
papers

3,914
citations

758635

12
h-index

794141

19
g-index

35
all docs

35
docs citations

35
times ranked

3790
citing authors

#	ARTICLE	IF	CITATIONS
1	An Interior-Point Method for Large-Scale ℓ_1 -Regularized Least Squares. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 606-617.	7.3	1,728
2	A tutorial on geometric programming. Optimization and Engineering, 2007, 8, 67-127.	1.3	926
3	Stock Trend Filtering. SIAM Review, 2009, 51, 339-360.	4.2	466
4	Digital Circuit Optimization via Geometric Programming. Operations Research, 2005, 53, 899-932.	1.2	146
5	Robust Beamforming via Worst-Case SINR Maximization. IEEE Transactions on Signal Processing, 2008, 56, 1539-1547.	3.2	111
6	A fast method for designing time-optimal gradient waveforms for arbitrary k-space trajectories. IEEE Transactions on Medical Imaging, 2008, 27, 866-873.	5.4	101
7	Tractable approximate robust geometric programming. Optimization and Engineering, 2008, 9, 95-118.	1.3	80
8	A Minimax Theorem with Applications to Machine Learning, Signal Processing, and Finance. SIAM Journal on Optimization, 2008, 19, 1344-1367.	1.2	46
9	A New Method for Design of Robust Digital Circuits. , 0, , .		45
10	An Efficient Method for Compressed Sensing. , 2007, , .		38
11	A heuristic for optimizing stochastic activity networks with applications to statistical digital circuit sizing. Optimization and Engineering, 2007, 8, 397-430.	1.3	24
12	Beamforming With Uncertain Weights. IEEE Signal Processing Letters, 2007, 14, 348-351.	2.1	23
13	Existence of Carathéodory Solutions in Nonlinear Systems With Discontinuous Switching Feedback Controllers. IEEE Transactions on Automatic Control, 2004, 49, 1167-1171.	3.6	20
14	An Efficient Identification Method for Friction in Single-DOF Motion Control Systems. IEEE Transactions on Control Systems Technology, 2004, 12, 555-563.	3.2	19
15	Maximum Likelihood Covariance Estimation with a Condition Number Constraint. , 2006, , .		18
16	On the existence of Caratheodory solutions in mechanical systems with friction. IEEE Transactions on Automatic Control, 1999, 44, 2086-2089.	3.6	14
17	A frequency-domain approach to identification of mechanical systems with friction. IEEE Transactions on Automatic Control, 2001, 46, 888-893.	3.6	14
18	Optimum power allocation and control for OFDM in multiple access channels. , 0, , .		13

#	ARTICLE	IF	CITATIONS
19	Optimal Estimation of Deterioration From Diagnostic Image Sequence. IEEE Transactions on Signal Processing, 2009, 57, 1030-1043.	3.2	13
20	Power control in lognormal fading wireless channels with uptime probability specifications via robust geometric programming. , 0, , .		11
21	A comparison principle for state-constrained differential inequalities and its application to time-optimal control. IEEE Transactions on Automatic Control, 2005, 50, 967-983.	3.6	11
22	Transmit power optimization for Gaussian vector broadcast channels. , 0, , .		9
23	A heuristic method for statistical digital circuit sizing. , 2006, 6156, 58.		7
24	Learning the kernel via convex optimization. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	7
25	Robust Signal Detection Under Model Uncertainty. IEEE Signal Processing Letters, 2009, 16, 287-290.	2.1	6
26	Robust Chebyshev FIR Equalization. , 2007, , .		5
27	A phase-plane approach to time-optimal control of single-DOF mechanical systems with friction. Automatica, 2003, 39, 1407-1415.	3.0	4
28	A Computationally Efficient Method for Robust Minimum Variance Beamforming. , 0, , .		4
29	Array Signal Processing with Robust Rejection Constraints via Second-Order Cone Programming. , 2006, , .		2
30	A computationally efficient approach to time-optimal control of robotic manipulators along specified paths. , 0, , .		1
31	A minimax theorem with applications to machine learning, signal processing, and finance. , 2007, , .		1
32	An Efficient Method for Large-Scale ℓ_1 -Regularized Convex Loss Minimization. , 2007, , .		1
33	Estimating monotone convex functions via sequential shape modification. Journal of Statistical Computation and Simulation, 2009, 79, 989-1000.	0.7	0
34	A Minimax Regret Approach to Robust Beamforming. , 2009, , .		0
35	Estimating cell probabilities in contingency tables with constraints on marginals/conditionals by geometric programming with applications. Computational Statistics, 2015, 30, 107-129.	0.8	0