

# Lieven Vandenberghe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9169775/publications.pdf>

Version: 2024-02-01

37  
papers

1,764  
citations

623699

14  
h-index

642715

23  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1481  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regularized Diffusion Adaptation via Conjugate Smoothing. IEEE Transactions on Automatic Control, 2022, 67, 2343-2358.	5.7	3
2	Disjoint Bilinear Optimization: A Two-Stage Robust Optimization Perspective. INFORMS Journal on Computing, 2022, 34, 2410-2427.	1.7	8
3	On the equivalence of the primal-dual hybrid gradient method and Douglas-Rachford splitting. Mathematical Programming, 2020, 179, 85-108.	2.4	28
4	Capacities and Optimal Input Distributions for Particle-Intensity Channels. IEEE Transactions on Molecular, Biological, and Multi-Scale Communications, 2020, 6, 220-232.	2.1	14
5	T-optimal designs for multi-factor polynomial regression models via a semidefinite relaxation method. Statistics and Computing, 2019, 29, 725-738.	1.5	4
6	Efficient Binomial Channel Capacity Computation with an Application to Molecular Communication. , 2018, , .		7
7	Entropic Proximal Operators for Nonnegative Trigonometric Polynomials. IEEE Transactions on Signal Processing, 2018, 66, 4826-4838.	5.3	4
8	Inexact proximal Newton methods for self-concordant functions. Mathematical Methods of Operations Research, 2017, 85, 19-41.	1.0	12
9	Semidefinite Representations of Gauge Functions for Structured Low-Rank Matrix Decomposition. SIAM Journal on Optimization, 2017, 27, 1362-1389.	2.0	5
10	Multi-pitch estimation using semidefinite programming. , 2017, , .		0
11	Extensions of semidefinite programming methods for atomic decomposition. , 2016, , .		7
12	Centralized network utility maximization over aggregate flows. , 2016, , .		6
13	Diffusion stochastic optimization with non-smooth regularizers. , 2016, , .		14
14	Sampling method for semidefinite programmes with non-negative Popov function constraints. International Journal of Control, 2014, 87, 330-345.	1.9	6
15	Reduced-Complexity Semidefinite Relaxations of Optimal Power Flow Problems. IEEE Transactions on Power Systems, 2014, 29, 1855-1863.	6.5	61
16	Logarithmic barriers for sparse matrix cones. Optimization Methods and Software, 2013, 28, 396-423.	2.4	17
17	Decentralized large-scale power balancing. , 2013, , .		4
18	Nuclear norm system identification with missing inputs and outputs. Systems and Control Letters, 2013, 62, 605-612.	2.3	107

#	ARTICLE	IF	CITATIONS
19	Subspace system identification via weighted nuclear norm optimization. , 2012, , .		41
20	Generalized KYP Lemma With Real Data. IEEE Transactions on Automatic Control, 2011, 56, 2942-2946.	5.7	35
21	Implementation of nonsymmetric interior-point methods for linear optimization over sparse matrix cones. Mathematical Programming Computation, 2010, 2, 167-201.	4.8	43
22	Linear matrix inequalities with chordal sparsity patterns and applications to robust quadratic optimization. , 2010, , .		6
23	Convex Piecewise-Linear Modeling Method for Circuit Optimization via Geometric Programming. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2010, 29, 1823-1827.	2.7	21
24	Semidefinite programming methods for system realization and identification. , 2009, , .		12
25	Maximum-likelihood estimation of autoregressive models with conditional independence constraints. , 2009, , .		1
26	Model calibration for optical lithography via Semidefinite programming. Optimization and Engineering, 2008, 9, 19-35.	2.4	2
27	Distributed Parallel Support Vector Machines in Strongly Connected Networks. IEEE Transactions on Neural Networks, 2008, 19, 1167-1178.	4.2	80
28	Covariance selection for nonchordal graphs via chordal embedding. Optimization Methods and Software, 2008, 23, 501-520.	2.4	84
29	Relaxations applicable to mixed integer predictive control comparisons and efficient computations. , 2007, , .		12
30	Low-rank structure in semidefinite programs derived from the KYP lemma. , 2007, , .		3
31	Interior-Point Algorithms for Sum-Of-Squares Optimization of Multidimensional Trigonometric Polynomials. , 2007, , .		5
32	Multidimensional FIR Filter Design Via Trigonometric Sum-of-Squares Optimization. IEEE Journal on Selected Topics in Signal Processing, 2007, 1, 641-650.	10.8	15
33	Energy Minimization of a QAM System. , 2007, , .		11
34	A tutorial on geometric programming. Optimization and Engineering, 2007, 8, 67-127.	2.4	926
35	Discrete Transforms, Semidefinite Programming, and Sum-of-Squares Representations of Nonnegative Polynomials. SIAM Journal on Optimization, 2006, 16, 939-964.	2.0	66
36	Convex optimization problems involving finite autocorrelation sequences. Mathematical Programming, 2002, 93, 331-359.	2.4	92

#	ARTICLE	IF	CITATIONS
37	A CONTINUOUS DEFORMATION ALGORITHM FOR DC-ANALYSIS OF ACTIVE NONLINEAR CIRCUITS. Journal of Circuits, Systems and Computers, 1991, 01, 327-351.	1.5	2