

Hamza Fawzi

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,423
citations

1040056

9
h-index

839539

18
g-index

24
all docs

24
docs citations

24
times ranked

1138
citing authors

#	ARTICLE	IF	CITATIONS
1	The sum-of-squares hierarchy on the sphere and applications in quantum information theory. <i>Mathematical Programming</i> , 2021, 190, 331-360.	2.4	30
2	Computing conditional entropies for quantum correlations. <i>Nature Communications</i> , 2021, 12, 575.	12.8	25
3	Geometric Rényi Divergence and its Applications in Quantum Channel Capacities. <i>Communications in Mathematical Physics</i> , 2021, 384, 1615-1677.	2.2	28
4	The Set of Separable States has no Finite Semidefinite Representation Except in Dimension 3×2 . <i>Communications in Mathematical Physics</i> , 2021, 386, 1319-1335.	2.2	4
5	Semidefinite Approximations of the Matrix Logarithm. <i>Foundations of Computational Mathematics</i> , 2019, 19, 259-296.	2.5	47
6	On representing the positive semidefinite cone using the second-order cone. <i>Mathematical Programming</i> , 2019, 175, 109-118.	2.4	11
7	AnySOS: An anytime algorithm for SOS programming. , 2019, , .		1
8	Efficient optimization of the quantum relative entropy. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 154003.	2.1	32
9	A Lower Bound on the Positive Semidefinite Rank of Convex Bodies. <i>SIAM Journal on Applied Algebra and Geometry</i> , 2018, 2, 126-139.	1.4	5
10	Equivariant Semidefinite Lifts of Regular Polygons. <i>Mathematics of Operations Research</i> , 2017, 42, 472-494.	1.3	1
11	Lieb's concavity theorem, matrix geometric means, and semidefinite optimization. <i>Linear Algebra and Its Applications</i> , 2017, 513, 240-263.	0.9	10
12	Sparse sums of squares on finite abelian groups and improved semidefinite lifts. <i>Mathematical Programming</i> , 2016, 160, 149-191.	2.4	18
13	Rational and real positive semidefinite rank can be different. <i>Operations Research Letters</i> , 2016, 44, 59-60.	0.7	3
14	Self-scaled bounds for atomic cone ranks: applications to nonnegative rank and cp-rank. <i>Mathematical Programming</i> , 2016, 158, 417-465.	2.4	15
15	Sparse sum-of-squares certificates on finite abelian groups. , 2015, , .		9
16	Lower bounds on nonnegative rank via nonnegative nuclear norms. <i>Mathematical Programming</i> , 2015, 153, 41-66.	2.4	8
17	Positive semidefinite rank. <i>Mathematical Programming</i> , 2015, 153, 133-177.	2.4	57
18	Equivariant Semidefinite Lifts and Sum-of-Squares Hierarchies. <i>SIAM Journal on Optimization</i> , 2015, 25, 2212-2243.	2.0	9

#	ARTICLE	IF	CITATIONS
19	Secure Estimation and Control for Cyber-Physical Systems Under Adversarial Attacks. IEEE Transactions on Automatic Control, 2014, 59, 1454-1467.	5.7	958
20	Security for control systems under sensor and actuator attacks. , 2012, , .		41
21	Secure state-estimation for dynamical systems under active adversaries. , 2011, , .		92
22	On Polyhedral Approximations of the Positive Semidefinite Cone. Mathematics of Operations Research, 0, , .	1.3	2
23	Defining quantum divergences via convex optimization. Quantum - the Open Journal for Quantum Science, 0, 5, 387.	0.0	16