

# Hamza Fawzi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9575266/publications.pdf>

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	Secure Estimation and Control for Cyber-Physical Systems Under Adversarial Attacks. IEEE Transactions on Automatic Control, 2014, 59, 1454-1467.	5.7	958
2	Secure state-estimation for dynamical systems under active adversaries. , 2011, , .		92
3	Positive semidefinite rank. Mathematical Programming, 2015, 153, 133-177.	2.4	57
4	Semidefinite Approximations of the Matrix Logarithm. Foundations of Computational Mathematics, 2019, 19, 259-296.	2.5	47
5	Security for control systems under sensor and actuator attacks. , 2012, , .		41
6	Efficient optimization of the quantum relative entropy. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 154003.	2.1	32
7	The sum-of-squares hierarchy on the sphere and applications in quantum information theory. Mathematical Programming, 2021, 190, 331-360.	2.4	30
8	Geometric Rényi Divergence and its Applications in Quantum Channel Capacities. Communications in Mathematical Physics, 2021, 384, 1615-1677.	2.2	28
9	Computing conditional entropies for quantum correlations. Nature Communications, 2021, 12, 575.	12.8	25
10	Sparse sums of squares on finite abelian groups and improved semidefinite lifts. Mathematical Programming, 2016, 160, 149-191.	2.4	18
11	Defining quantum divergences via convex optimization. Quantum - the Open Journal for Quantum Science, 0, 5, 387.	0.0	16
12	Self-scaled bounds for atomic cone ranks: applications to nonnegative rank and cp-rank. Mathematical Programming, 2016, 158, 417-465.	2.4	15
13	On representing the positive semidefinite cone using the second-order cone. Mathematical Programming, 2019, 175, 109-118.	2.4	11
14	Lieb's concavity theorem, matrix geometric means, and semidefinite optimization. Linear Algebra and Its Applications, 2017, 513, 240-263.	0.9	10
15	Sparse sum-of-squares certificates on finite abelian groups. , 2015, , .		9
16	Equivariant Semidefinite Lifts and Sum-of-Squares Hierarchies. SIAM Journal on Optimization, 2015, 25, 2212-2243.	2.0	9
17	Lower bounds on nonnegative rank via nonnegative nuclear norms. Mathematical Programming, 2015, 153, 41-66.	2.4	8
18	A Lower Bound on the Positive Semidefinite Rank of Convex Bodies. SIAM Journal on Applied Algebra and Geometry, 2018, 2, 126-139.	1.4	5

#	ARTICLE	IF	CITATIONS
19	The Set of Separable States has no Finite Semidefinite Representation Except in Dimension $3 \times 2$ . Communications in Mathematical Physics, 2021, 386, 1319-1335.	2.2	4
20	Rational and real positive semidefinite rank can be different. Operations Research Letters, 2016, 44, 59-60.	0.7	3
21	On Polyhedral Approximations of the Positive Semidefinite Cone. Mathematics of Operations Research, 0, , .	1.3	2
22	Equivariant Semidefinite Lifts of Regular Polygons. Mathematics of Operations Research, 2017, 42, 472-494.	1.3	1
23	AnySOS: An anytime algorithm for SOS programming. , 2019, , .		1