## Shmuel Friedland

## List of Publications by Year

 in descending orderSource: https:||exaly.com/author-pdf/2597316/publications.pdf
Version: 2024-02-01


1 Nonnegativity for hafnians of certain matrices. Linear and Multilinear Algebra, 2022, 70, 4615-4619. 1

2 Graph isomorphism and Gaussian boson sampling. Special Matrices, 2021, 9, 166-196.
0.2

20

On the Complexity of Finding Tensor Ranks. Communications on Applied Mathematics and
Computation, 2021, 3, 281-289.

Spectral norm of a symmetric tensor and its computation. Mathematics of Computation, 2020, 89,
2175-2215.

Spectral Inequalities for Nonnegative Tensors and Their Tropical Analogues. Vietnam Journal of
Mathematics, 2020, 48, 893-928.
$0.4 \quad 1$

A note on Hermitian positive semidefinite matrix polynomials. Linear Algebra and Its Applications, 2020,
598, 105-109.

Quantum Strassenâ $€^{T M}$ s theorem. Infinite Dimensional Analysis, Quantum Probability and Related Topics,
2020, 23, 2050020.
0.3

6

8 An elementary and unified proof of Grothendieckâ€ ${ }^{T M}$ s inequality. L'Enseignement Mathematique, 2019, 64, 327-351.
0.2

3

Grothendieck constant is norm of Strassen matrix multiplication tensor. Numerische Mathematik, 2019, 143, 905-922.

10 Infinite dimensional generalizations of Choiâ $€^{T M}$ s Theorem. Special Matrices, 2019, 7, 67-77.
0.2

3

11 The tensor rank of tensor product of two three-qubit W states is eight. Linear Algebra and Its
Applications, 2018, 543, 1-16.
0.4

23

12 Linear Algebra and Matrices. , 2018, , .
3

13 Tensor and hypergraph. Frontiers of Mathematics in China, 2017, 12, 1277-1277.
$0.4 \quad 1$

On best rank-2 and rank-(2,2,2) approximations of order-3 tensors. Linear and Multilinear Algebra, 2017, 65, 1289-1310.

5

15 Nuclear norm of higher-order tensors. Mathematics of Computation, 2017, 87, 1255-1281.
1.1

105

16 A simple spectral algorithm for recovering planted partitions. Special Matrices, 2017, 5, 139-157.
0.2

2

17 On the extreme points of quantum channels. Linear Algebra and Its Applications, 2016, 498, 553-573.
$0.4 \quad 6$
19 Equality in Wielandtâ $\mathrm{T}^{\mathrm{TM}}$ s eigenvalue inequality. Special Matrices, 2015, 3, .
Upper bounds on the number of perfect matchings and directed 2 -factors in graphs with given number

22 On convex optimization problems in quantum information theory. Journal of Physics A: Mathematical

```
25 Best rank one approximation of real symmetric tensors can be chosen symmetric. Frontiers of
```

$0.4 \quad 37$

26 Universal Uncertainty Relations. Physical Review Letters, 2013, 111, 230401.
2.9

127

> 27 Submodular spectral functions of principal submatrices of a hermitian matrix, extensions and
> applications. Linear Algebra and Its Applications, 2013, 438, 3872-3884.

Perronâ $€$ "Frobenius theorem for nonnegative multilinear forms and extensions. Linear Algebra and Its
Applications, 2013, 438, 738-749.
0.4

232
On tensors of border rank I in <mml:math xmlns:mml="http:/|www.w3.org/1998/Math/MathML"
29 altimg="sil.gif" overflow="scroll"><mml:mrow $><\mathrm{mml}$ :msup $\rangle\langle\mathrm{mml}$ :mrow $\rangle\langle\mathrm{mml}$ :mi
 Linear Alqebra and Its Applications, 2013, 438, 713-737.

30 Preface to the special issue on tensors and multilinear algebra. Linear Algebra and Its Applications, 2013, 438, 635-638.
$0.4 \quad 0$
The Minimum Entropy Output of a Quantum Channel Is Locally Additive. IEEE Transactions on
Information Theory, 2013,59, 603-614.

## 32 Generalized tensor compressive sensing. , 2013, , .

[^0]$0.9 \quad 22$

34 Nonnegative definite hermitian matrices with increasing principal minors. Special Matrices, 2013, 1, 1-2.
0.23
$35 \quad$ A note on the nonzero spectra of irreducible matrices. Linear and Multilinear Algebra, 2012, 60,
1235-1238.
$0.5 \quad 1$
37 On the generic and typical ranks of 3-tensors. Linear Algebra and Its Applications, 2012, 436, 478-497. 0.4 ..... 22
38 On the minimum rank of a graph over finite fields. Linear Algebra and Its Applications, 2012, 436,
1710-1720. 0.4 ..... 1
The Pressure, Den
2011, 179-220. ..... 23
Nonnegative Matrix Inequalities and their Application to Nonconvex Power Control Optimization. 0.7 ..... 40
41 An Asymptotic Expansion and Recursive Inequalities for the Monomer-Dimer Problem. Journal of ..... 0.5
Statistical Physics, 2011, 143, 306-325.Parametric PoincarÃœ-Perron theorem with applications. Journal D'Analyse Mathematique, 2011, 113,197-225.$0.4 \quad 4$
43 The automorphism group of separable states in quantum information theory. Journal of Mathematical Physics, 2011, 52, .
0.5 ..... 24An explicit expression for the relative entropy of entanglement in all dimensions. Journal ofMathematical Physics, 2011, 52, .
45 Numerical estimation of the relative entropy of entanglement. Physical Review A, 2010, 82, . ..... 1.0 ..... 26
The \$1\$-Vertex Transfer Matrix and Accurate Estimation of Channel Capacity. IEEE Transactions onInformation Theory, 2010, 56, 3692-3699.
1.5 ..... 7
47 Asymptotic positivity of Hurwitz product traces: Two proofs. Linear Algebra and Its Applications, 2010, 432, 1363-1383. 0.4 ..... 4
48
Additive Invariants on Quantum Channels and Regularized Minimum Entropy., 2010, , 237-245.1A note on the graphâ $€^{T M}$ s resolvent and the multifilar structure. Linear Algebra and Its Applications, 2009,431, 1367-1379.
0.4 ..... 7On the Validations of the Asymptotic Matching Conjectures. Journal of Statistical Physics, 2008, 133,An upper bound for the minimum rank of a graph. Linear Algebra and Its Applications, 2008, 429,0.439
1629-1638.Monomerâ $€^{" D}$ Dimer Entropy. Combinatorics Probability and Computing, 2008, 17, 347-361.

```
55 2-Adic valuations of certain ratios of products of factorials and applications. Linear Algebra and Its
Applications, 2007, 426, 159-189.
```

56 The polytope of dual degree partitions. Linear Algebra and Its Applications, 2007, 426, 458-461.
0.41

```
57 Convergence of products of matrices in projective spaces. Linear Algebra and Its Applications, 2006,
413, 247-263.
```

Generalized interval exchanges and the $2 \hat{a} \in$ " 3 conjecture. Central European Journal of Mathematics, 2005, 3, 412-429.
0.7
59 Theory of computation of multidimensional entropy with an application to the monomerâ€"dimer problem. Advances in Applied Mathematics, 2005, 34, 486-522.63 The limit of the product of the parameterized exponentials of two operators. Journal of FunctionalAnalysis, 2004, 210, 436-464.
65 Generalizations of the odd degree theorem and applications. Israel Journal of Mathematics, 2003, 136, 353-371.
7Multi-Dimensional Capacity, Pressure and Hausdorff Dimension. The IMA Volumes in Mathematics andIts Applications, 2003, , 183-222.
$0.5 \quad 5$
67 On Cheeger-type inequalities for weighted graphs. Journal of Graph Theory, 2002, 41, 1-17. ..... 0.5 ..... 14On spaces of matrices containing a nonzero matrix of bounded rank. Pacific Journal of Mathematics,

```
73 On the second real eigenvalue of nonegative and Z-matrices. Linear Algebra and Its Applications, 1997,
255, 303-313.
\(75 \quad\) Invariant measures of groups of homeomor
Dynamical Systems, 1995, 15, 1075-1089.
```

79 Quadratic forms and the graph isomorphism problem. Linear Algebra and Its Applications, 1991, 150,
423-442.

```
Global principle for free-endpoint problems in optimal control and differential games. Journal of
Optimization Theory and Applications, 1978, 24, 303-313.

94 On an inverse problem for nonnegative and eventually nonnegative matrices. Israel Journal of

Subspaces of symmetric matrices containing matrices with a multiple first eigenvalue. Pacific Journal of Mathematics, 1976, 62, 389-399.
Some inequalities for the spectral radius of non-negative matrices and applications. Duke
Mathematical Journal, 1975, 42, 459. \(\quad 0.8\)
101 An Algorithm for Missing Value Estimation for DNA Microarray Data. , 0, , .8
102 Fast Monte-Carlo Low Rank Approximations for Matrices. , 0, , .1```


[^0]:    On best rank one approximation of tensors. Numerical Linear Algebra With Applications, 2013, 20,
    942-955.

