

Beatrice Meini

List of Publications by Year in descending order

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71
papers

1,791
citations

331259

21
h-index

360668

35
g-index

81
all docs

81
docs citations

81
times ranked

540
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Solution of a Nonlinear Matrix Equation Arising in Queueing Problems. SIAM Journal on Matrix Analysis and Applications, 1996, 17, 906-926.	0.7	130
2	Efficient computation of the extreme solutions of $X+A^{-1}X^{-1}A=Q$ and $X-A^{-1}X^{-1}A=Q$. Mathematics of Computation, 2001, 71, 1189-1204.	1.1	86
3	An effective matrix geometric mean satisfying the Ando's Mathias properties. Mathematics of Computation, 2010, 79, 437-437.	1.1	73
4	Algorithms for the matrix pth root. Numerical Algorithms, 2005, 39, 349-378.	1.1	71
5	Computations with infinite Toeplitz matrices and polynomials. Linear Algebra and Its Applications, 2002, 343-344, 21-61.	0.4	69
6	Improved cyclic reduction for solving queueing problems. Numerical Algorithms, 1997, 15, 57-74.	1.1	64
7	Effective Methods for Solving Banded Toeplitz Systems. SIAM Journal on Matrix Analysis and Applications, 1999, 20, 700-719.	0.7	61
8	On the Doubling Algorithm for a (Shifted) Nonsymmetric Algebraic Riccati Equation. SIAM Journal on Matrix Analysis and Applications, 2008, 29, 1083-1100.	0.7	59
9	Solving nonlinear matrix equations arising in Tree-Like stochastic processes. Linear Algebra and Its Applications, 2003, 366, 39-64.	0.4	52
10	Structured Markov chains solver. , 2006, , .		50
11	On Cyclic Reduction Applied to a Class of Toeplitz-Like Matrices Arising in Queueing Problems. , 1995, , 21-38.		49
12	A Shifted Cyclic Reduction Algorithm for Quasi-Birth-Death Problems. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 673-691.	0.7	48
13	An improved FFT-based version of Ramaswami's formula. Stochastic Models, 1997, 13, 223-238.	0.3	44
14	The cyclic reduction algorithm: from Poisson equation to stochastic processes and beyond. Numerical Algorithms, 2009, 51, 23-60.	1.1	44
15	New convergence results on functional iteration techniques for the numerical solution of M/G/1 type Markov chains. Numerische Mathematik, 1997, 78, 39-58.	0.9	43
16	Solving matrix polynomial equations arising in queueing problems. Linear Algebra and Its Applications, 2002, 340, 225-244.	0.4	38
17	The Matrix Square Root from a New Functional Perspective: Theoretical Results and Computational Issues. SIAM Journal on Matrix Analysis and Applications, 2004, 26, 362-376.	0.7	37
18	Transforming algebraic Riccati equations into unilateral quadratic matrix equations. Numerische Mathematik, 2010, 116, 553-578.	0.9	34

#	ARTICLE	IF	CITATIONS
19	On the solution of algebraic Riccati equations arising in fluid queues. Linear Algebra and Its Applications, 2006, 413, 474-494.	0.4	30
20	Performance evaluation of a worst case model of the MetaRing MAC protocol with global fairness. Performance Evaluation, 1997, 29, 127-151.	0.9	26
21	Inverting block Toeplitz matrices in block Hessenberg form by means of displacement operators: Application to queueing problems. Linear Algebra and Its Applications, 1998, 272, 1-16.	0.4	26
22	Solving m/g/l type markov chains: recent advances and applications. Stochastic Models, 1998, 14, 479-496.	0.3	26
23	Modeling and performance evaluation of GPRS. , 0, , .		22
24	Computing the exponential of large block-triangular block-Toeplitz matrices encountered in fluid queues. Linear Algebra and Its Applications, 2016, 502, 387-419.	0.4	21
25	Relaxed functional iteration techniques for the numerical solution of M/G/1 type Markov chains. BIT Numerical Mathematics, 1998, 38, 510-526.	1.0	19
26	Effective Fast Algorithms for Polynomial Spectral Factorization. Numerical Algorithms, 2003, 34, 217-227.	1.1	18
27	Structured Markov chains solver. , 2006, , .		18
28	Non-skip-free M/G/1-type Markov chains and Laurent matrix power series. Linear Algebra and Its Applications, 2004, 386, 187-206.	0.4	17
29	Palindromic matrix polynomials, matrix functions and integral representations. Linear Algebra and Its Applications, 2011, 434, 174-184.	0.4	15
30	Factorization of analytic functions by means of Koenig's theorem and Toeplitz computations. Numerische Mathematik, 2001, 89, 49-82.	0.9	14
31	DISTRIBUTIONS OF REWARD FUNCTIONS ON CONTINUOUS-TIME MARKOV CHAINS. , 2002, , .		13
32	SMCSolver and Q-MAM. Performance Evaluation Review, 2012, 39, 46-46.	0.4	12
33	Semi-infinite quasi-Toeplitz matrices with applications to QBD stochastic processes. Mathematics of Computation, 2018, 87, 2811-2830.	1.1	12
34	Why is Kemeny's constant a constant?. Journal of Applied Probability, 2018, 55, 1025-1036.	0.4	12
35	On quadratic matrix equations with infinite size coefficients encountered in QBD stochastic processes. Numerical Linear Algebra With Applications, 2018, 25, e2128.	0.9	11
36	A probabilistic interpretation of cyclic reduction and its relationships with logarithmic reduction. Calcolo, 2008, 45, 207-216.	0.6	10

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37	Perronâ€based algorithms for the multilinear PageRank. Numerical Linear Algebra With Applications, 2018, 25, e2177.	0.9	10
38	On the exponential of semi-infinite quasi-Toeplitz matrices. Numerische Mathematik, 2019, 141, 319-351.	0.9	9
39	On functions of quasi-Toeplitz matrices. Sbornik Mathematics, 2017, 208, 1628-1645.	0.2	8
40	Solving Quadratic Matrix Equations Arising in Random Walks in the Quarter Plane. SIAM Journal on Matrix Analysis and Applications, 2020, 41, 691-714.	0.7	8
41	A Perron Iteration for the Solution of a Quadratic Vector Equation Arising in Markovian Binary Trees. SIAM Journal on Matrix Analysis and Applications, 2011, 32, 248-261.	0.7	7
42	On the solution of a quadratic vector equation arising in Markovian Binary Trees. Numerical Linear Algebra With Applications, 2011, 18, 981-991.	0.9	7
43	Solving certain queueing problems modelled by toeplitz matrices. Calcolo, 1993, 30, 395-420.	0.6	6
44	Shift Techniques and Canonical Factorizations in the Solution of M/G/1-Type Markov Chains. Stochastic Models, 2005, 21, 279-302.	0.3	6
45	General Solution of the Poisson Equation for Quasi-Birth-and-Death Processes. SIAM Journal on Applied Mathematics, 2016, 76, 2397-2417.	0.8	6
46	Structured Markov chains solver: tool extension. , 2009, , .		6
47	A Computational Framework for Two-Dimensional Random Walks With Restarts. SIAM Journal of Scientific Computing, 2020, 42, A2108-A2133.	1.3	5
48	<title>Solving block-banded block Toeplitz systems with banded Toeplitz blocks</title>. , 1999, 3807, 300.		4
49	Analytical performance evaluation of a two class DiffServ link. , 0, , .		4
50	Nonlinear matrix equations and structured linear algebra. Linear Algebra and Its Applications, 2006, 413, 440-457.	0.4	4
51	On the numerical solution of a structured nonsymmetric algebraic Riccati equation. Performance Evaluation, 2013, 70, 682-690.	0.9	4
52	Palindromic linearization and numerical solution of nonsymmetric algebraic \$\$\$-Riccati equations. BIT Numerical Mathematics, 0, , .	1.0	4
53	Exploiting the Toeplitz structure in certain queueing problems. Calcolo, 1996, 33, 289-305.	0.6	3
54	An efficient numerical method for performance analysis of contention MAC protocols: a case study (PRMA++). IEEE Journal on Selected Areas in Communications, 1998, 16, 653-667.	9.7	3

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55	A "shift-and-deflate" technique for quadratic matrix polynomials. <i>Linear Algebra and Its Applications</i> , 2013, 438, 1946-1961.	0.4	3
56	The palindromic cyclic reduction and related algorithms. <i>Calcolo</i> , 2015, 52, 25-43.	0.6	3
57	A family of fast fixed point iterations for M/G/1-type Markov chains. <i>IMA Journal of Numerical Analysis</i> , 2022, 42, 1454-1477.	1.5	3
58	Matrix Equations and Structures: Efficient Solution of Special Discrete Algebraic Riccati Equations. <i>Lecture Notes in Computer Science</i> , 2001, , 578-585.	1.0	3
59	Nonsymmetric Algebraic Riccati Equations Associated with an M-Matrix: Recent Advances and Algorithms. , 2010, , 176-209.		3
60	<title>Regularized solution of block-banded block Toeplitz systems</title>. , 2000, 4116, 135.		2
61	A Compressed Cyclic Reduction for QBD processes with Low-Rank Upper and Lower Transitions. <i>Springer Proceedings in Mathematics and Statistics</i> , 2013, , 25-40.	0.1	1
62	Shift techniques for Quasi-Birth and Death processes: Canonical factorizations and matrix equations. <i>Applied Numerical Mathematics</i> , 2017, 116, 24-36.	1.2	1
63	Solving certain queueing problems by means of regular splittings. <i>Applied Mathematics Letters</i> , 2000, 13, 99-105.	1.5	0
64	An M/G/1 Queueing System with Multiple Vacations to Assess the Performance of a Simplified Deficit Round Robin Model. <i>Lecture Notes in Computer Science</i> , 2003, , 134-151.	1.0	0
65	A Note on Computing the Tail Decay of M/G/1-Type Markov Renewal Processes. <i>Stochastic Models</i> , 2009, 25, 569-579.	0.3	0
66	A compressed cyclic reduction for QBDs with low rank upper and lower transitions. <i>Performance Evaluation Review</i> , 2012, 39, 33-33.	0.4	0
67	On the solution of a rational matrix equation arising in G-networks. <i>Calcolo</i> , 2017, 54, 919-941.	0.6	0
68	7th Workshop on Matrix Equations and Tensor Techniques. <i>Numerical Linear Algebra With Applications</i> , 2018, 25, e2223.	0.9	0
69	Matrix equations in Markov modulated Brownian motion: theoretical properties and numerical solution. <i>Stochastic Models</i> , 2020, 36, 251-284.	0.3	0
70	Traffic lights, clumping and QBDs. <i>Stochastic Models</i> , 2021, 37, 102-126.	0.3	0
71	Generalization of the Brauer Theorem to Matrix Polynomials and Matrix Laurent Series. <i>Operator Theory: Advances and Applications</i> , 2017, , 155-178.	0.2	0