

Nestor Thome

List of Publications by Year in descending order

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papers

964
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430874

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501196

28
g-index

75
all docs

75
docs citations

75
times ranked

194
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | On a new generalized inverse for matrices of an arbitrary index. Applied Mathematics and Computation, 2014, 226, 575-580. | 2.2 | 110 |
| 2 | Revisiting the core EP inverse and its extension to rectangular matrices. Quaestiones Mathematicae, 2018, 41, 265-281. | 0.6 | 85 |
| 3 | Maximal classes of matrices determining generalized inverses. Applied Mathematics and Computation, 2018, 333, 42-52. | 2.2 | 47 |
| 4 | Characterizations of k -commutative equalities for some outer generalized inverses. Linear and Multilinear Algebra, 2020, 68, 177-192. | 1.0 | 38 |
| 5 | A geometrical approach on generalized inverses by Neumann-type series. Linear Algebra and Its Applications, 2001, 332-334, 533-540. | 0.9 | 34 |
| 6 | The diamond partial order in rings. Linear and Multilinear Algebra, 2014, 62, 386-395. | 1.0 | 29 |
| 7 | Idempotency of linear combinations of an idempotent matrix and a t -potent matrix that commute. Linear Algebra and Its Applications, 2005, 403, 414-418. | 0.9 | 28 |
| 8 | Further properties on the core partial order and other matrix partial orders. Linear and Multilinear Algebra, 2014, 62, 1629-1648. | 1.0 | 28 |
| 9 | The generalized Schur complement in group inverses and $(k+1)$ -potent matrices. Linear and Multilinear Algebra, 2006, 54, 405-413. | 1.0 | 24 |
| 10 | Characterizations and linear combinations of k -generalized projectors. Linear Algebra and Its Applications, 2005, 410, 150-159. | 0.9 | 23 |
| 11 | $\{k\}$ -Group Periodic Matrices. SIAM Journal on Matrix Analysis and Applications, 2006, 28, 9-25. | 1.4 | 23 |
| 12 | An algorithm to check the nonnegativity of singular systems. Applied Mathematics and Computation, 2007, 189, 355-365. | 2.2 | 23 |
| 13 | The class of m -EP and m -normal matrices. Linear and Multilinear Algebra, 2016, 64, 2119-2132. | 1.0 | 23 |
| 14 | On a partial order defined by the weighted Moore-Penrose inverse. Applied Mathematics and Computation, 2013, 219, 7310-7318. | 2.2 | 22 |
| 15 | On some new pre-orders defined by weighted Drazin inverses. Applied Mathematics and Computation, 2016, 282, 108-116. | 2.2 | 22 |
| 16 | The star partial order and the eigenprojection at 0 on EP matrices. Applied Mathematics and Computation, 2012, 218, 10669-10678. | 2.2 | 21 |
| 17 | Weighted binary relations involving the Drazin inverse. Applied Mathematics and Computation, 2015, 253, 215-223. | 2.2 | 21 |
| 18 | Group inverse and group involutory Matrices. Linear and Multilinear Algebra, 1998, 45, 207-218. | 1.0 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Oblique projectors and group involutory matrices. Applied Mathematics and Computation, 2003, 140, 517-522. | 2.2 | 18 |
| 20 | A weak group inverse for rectangular matrices. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2019, 113, 3727-3740. | 1.2 | 18 |
| 21 | Generalized inverses and a block-rank equation. Applied Mathematics and Computation, 2003, 141, 471-476. | 2.2 | 17 |
| 22 | The inverse eigenvalue problem for a Hermitian reflexive matrix and the optimization problem. Journal of Computational and Applied Mathematics, 2016, 291, 449-457. | 2.0 | 17 |
| 23 | A note on k -generalized projections. Linear Algebra and Its Applications, 2007, 420, 572-575. | 0.9 | 16 |
| 24 | Characterizations of $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/xml/common/struct-cite/dtd" \rangle$ | 0.9 | 16 |
| 25 | Relationships between different sets involving group and Drazin projectors and nonnegativity. Linear Algebra and Its Applications, 2013, 438, 1688-1699. | 0.9 | 16 |
| 26 | Weighted G-Drazin inverses and a new pre-order on rectangular matrices. Applied Mathematics and Computation, 2018, 317, 12-24. | 2.2 | 16 |
| 27 | Idempotency of linear combinations of an idempotent matrix and a $\langle b \rangle \langle i \rangle \langle /i \rangle \langle /b \rangle$ -potent matrix that do not commute. Linear and Multilinear Algebra, 2008, 56, 679-687. | 1.0 | 14 |
| 28 | Nonnegativity, stability, and regularization of discrete-time descriptor systems. Linear Algebra and Its Applications, 2010, 432, 837-846. | 0.9 | 11 |
| 29 | Inverse eigenvalue problem for normal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \langle /mml:mi \rangle \langle \text{mml:math} \rangle$ -hamiltonian using the GSVD and the lifting technique to find $\langle \text{mml:math} \rangle$ | 2.7 | 11 |
| 30 | and anti-reflexive solutions of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" display="inline" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \{ \langle /mml:mo \rangle \langle \text{mml:mi} \rangle P \langle /mml:mi \rangle \langle \text{mml:mo} \rangle, \langle /mml:mo \rangle \langle \text{mml:mi} \rangle k \langle /mml:mi \rangle \langle \text{mml:mo} \rangle + \langle /mml:mrow \rangle \langle /mml:math \rangle$ | 2.7 | 9 |
| 31 | Sharp partial order and linear autonomous systems. Applied Mathematics and Computation, 2020, 366, 124736. | 0.9 | 9 |
| 32 | Sharp partial order and linear autonomous systems. Applied Mathematics and Computation, 2020, 366, 124736. | 2.2 | 9 |
| 33 | A dynamic model for a study of diabetes. Mathematical and Computer Modelling, 2009, 50, 713-716. | 2.0 | 8 |
| 34 | New matrix partial order based on spectrally orthogonal matrix decomposition. Linear and Multilinear Algebra, 2016, 64, 362-374. | 1.0 | 8 |
| 35 | The weak core inverse. Aequationes Mathematicae, 2021, 95, 351-373. | 0.8 | 8 |
| 36 | Balancing singular discrete-time systems. Applied Mathematics Letters, 2000, 13, 7-13. | 2.7 | 7 |

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|----|--|-----|-----------|
| 37 | Output feedback stabilization for symmetric control systems. Journal of the Franklin Institute, 2005, 342, 814-823. | 3.4 | 7 |
| 38 | Algorithms for $\{K, s+1\}$ -potent matrix constructions. Journal of Computational and Applied Mathematics, 2013, 249, 157-162. | 2.0 | 7 |
| 39 | From projectors to 1MP and MP1 generalized inverses and their induced partial orders. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2021, 115, 1. | 1.2 | 7 |
| 40 | Symmetric singular linear control systems. Applied Mathematics Letters, 2002, 15, 671-675. | 2.7 | 5 |
| 41 | Applications of differential geometry to cartography. International Journal of Mathematical Education in Science and Technology, 2004, 35, 29-38. | 1.4 | 5 |
| 42 | Nilpotent matrices and the minus partial order. Quaestiones Mathematicae, 2017, 40, 519-525. | 0.6 | 5 |
| 43 | On the minus partial order in control systems. Applied Mathematics and Computation, 2020, 386, 125529. | 2.2 | 5 |
| 44 | Parametrized solutions $\$X\$$ of the system $\$AXA = AY A\$$ and $\$A^k Y AX = XAY A^k\$$. Electronic Journal of Linear Algebra, 0, 35, 503-510. | 0.6 | 5 |
| 45 | Compensating periodic descriptor systems. Systems and Control Letters, 2001, 43, 133-139. | 2.3 | 4 |
| 46 | Gramian matrices and balanced model of generalized systems. Applied Mathematics and Computation, 2004, 148, 341-350. | 2.2 | 4 |
| 47 | Matrices A such that $RA=As+1R$ when $Rk=I$. Linear Algebra and Its Applications, 2013, 439, 1017-1023. | 0.9 | 4 |
| 48 | A simultaneous canonical form of a pair of matrices and applications involving the weighted Moore-Penrose inverse. Applied Mathematics Letters, 2016, 53, 112-118. | 2.7 | 4 |
| 49 | GDMP-inverses of a matrix and their duals. Linear and Multilinear Algebra, 2022, 70, 3923-3935. | 1.0 | 4 |
| 50 | Characterizations and perturbation analysis of a class of matrices related to core-EP inverses. Journal of Computational and Applied Mathematics, 2021, 393, 113496. | 2.0 | 4 |
| 51 | When is the hermitian/skew-hermitian part of a matrix a potent matrix?. Electronic Journal of Linear Algebra, 0, 24, . | 0.6 | 4 |
| 52 | Nonnegative singular control systems using the Drazin projector. Applied Mathematics Letters, 2013, 26, 799-803. | 2.7 | 3 |
| 53 | Special elements in a ring related to Drazin inverses. Linear and Multilinear Algebra, 2013, 61, 1017-1027. | 1.0 | 3 |
| 54 | Generalized centro-invertible matrices with applications. Applied Mathematics Letters, 2014, 38, 106-109. | 2.7 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | On a matrix group constructed from an $\{R, s+1, k\}$ -potent matrix. Linear Algebra and Its Applications, 2014, 461, 200-210. | 0.9 | 3 |
| 56 | Inequalities and equalities for \hat{A}^2 (Sylvester), \hat{A}^3 (Frobenius), and \hat{A}^3 matrices. Aequationes Mathematicae, 2016, 90, 951-960. | 0.8 | 3 |
| 57 | Matrices A such that $A+1R\hat{A}^{-1}=R\hat{A}^{-1}A$ with $R\hat{A}^{-1}=R\hat{A}^{-1}$. Linear Algebra and Its Applications, 2018, 552, 85-104. | 0.9 | 3 |
| 58 | The W -weighted Drazin-star matrix and its dual. Electronic Journal of Linear Algebra, 2021, 37, 72-87. | 0.6 | 3 |
| 59 | Properties of a matrix group associated to a $\{K, s+1\}$ -potent matrix. Electronic Journal of Linear Algebra, 0, 24, . | 0.6 | 3 |
| 60 | Solving an Open Problem About the G -Drazin Partial Order. Electronic Journal of Linear Algebra, 2020, 36, 55-66. | 0.6 | 3 |
| 61 | On a revisited Moore-Penrose inverse of a linear operator on Hilbert spaces. Filomat, 2017, 31, 1927-1931. | 0.5 | 3 |
| 62 | An algorithm to study the nonnegativity, regularity and stability via state-feedbacks of singular systems of arbitrary index. Linear and Multilinear Algebra, 2015, 63, 882-892. | 1.0 | 2 |
| 63 | Algorithms for solving the inverse problem associated with $KAK=As+1$. Journal of Computational and Applied Mathematics, 2017, 309, 333-341. | 2.0 | 2 |
| 64 | Left and right generalized Drazin invertible operators on Banach spaces and applications. Operators and Matrices, 2019, , 569-583. | 0.3 | 2 |
| 65 | The $\langle i \rangle W \langle i \rangle$ -weighted BT inverse. Quaestiones Mathematicae, 2023, 46, 359-374. | 0.6 | 2 |
| 66 | An algorithm for normalizing variable control systems. Applied Mathematics and Computation, 2007, 192, 439-445. | 2.2 | 1 |
| 67 | Drazin inverse based numerical methods for singular linear differential systems. Advances in Engineering Software, 2012, 50, 37-43. | 3.8 | 1 |
| 68 | Spectral study of $\{R, s+1, k\}$ - and $\{R, s+1, k, \hat{A}^{-1}\}$ -potent matrices. Journal of Computational and Applied Mathematics, 2020, 373, 112414. | 2.0 | 1 |
| 69 | Nonnegativity of Control Singular Systems via State-Feedbacks. , 0, , 25-32. | | 1 |
| 70 | Further results on generalized centro-invertible matrices. Numerical Algorithms, 2019, 80, 1309-1328. | 1.9 | 0 |
| 71 | Ordered matrices with nonnegative group projector. Revista De La Real Academia De Ciencias Exactas, Fisicas Y Naturales - Serie A: Matematicas, 2020, 114, 1. | 1.2 | 0 |
| 72 | Pole-assignment of discrete time-delay systems with symmetries. Discrete and Continuous Dynamical Systems - Series B, 2006, 6, 641-649. | 0.9 | 0 |

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|----|--|-----|-----------|
| 73 | Characterization of Matrices with Nonnegative Group-Projector. Lecture Notes in Control and Information Sciences, 2009, , 315-320. | 1.0 | 0 |
| 74 | Representations of the weighted WG inverse and a rank equation's solution. Linear and Multilinear Algebra, 2023, 71, 226-241. | 1.0 | 0 |
| 75 | Numerical Methods for Singular Linear Differential Systems. , 0, , . | | 0 |