Nicoletta Del Buono

List of Publications by Year
in descending order

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55 papers	563 citations	623574 14 h-index	677027 22 g-index
59 all docs	59 docs citations	59 times ranked	541 citing authors

#	Article	IF	Citations
1	Coupled oscillators and activity waves in ant colonies. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 371-378.	1.2	52
2	Non-negative Matrix Tri-Factorization for co-clustering: An analysis of the block matrix. Information Sciences, 2015, 301, 13-26.	4.0	48
3	Subtractive clustering for seeding non-negative matrix factorizations. Information Sciences, 2014, 257, 369-387.	4.0	46
4	Total decoupling of general quadratic pencils, Part I: Theory. Journal of Sound and Vibration, 2008, 309, 96-111.	2.1	28
5	Explicit methods based on a class of four stage fourth order Rungeâ€“Kutta methods for preserving quadratic laws. Journal of Computational and Applied Mathematics, 2002, 140, 231-243.	1.1	23
6	Computation of the Exponential of Large Sparse Skew-Symmetric Matrices. SIAM Journal of Scientific Computing, 2005, 27, 278-293.	1.3	22
7	Dynamical modeling of liver Aquaporin-9 expression and glycerol permeability in hepatic glucose metabolism. European Journal of Cell Biology, 2017, 96, 61-69.	1.6	21
8	A framework for intelligent Twitter data analysis with non-negative matrix factorization. International Journal of Web Information Systems, 2018, 14, 334-356.	1.3	21
9	Nonnegative Matrix Factorizations for Intelligent Data Analysis. Signals and Communication Technology, 2016, , 49-74.	0.4	20
10	Total decoupling of general quadratic pencils, Part II: Structure preserving isospectral flows. Journal of Sound and Vibration, 2008, 309, 112-128.	2.1	19
11	Runge-Kutta Type Methods Based on Geodesics for Systems of ODEs on the Stiefel Manifold. BIT Numerical Mathematics, 2001, 41, 912-923.	1.0	16
12	Structured Quadratic Inverse Eigenvalue Problem, I. Serially Linked Systems. SIAM Journal of Scientific Computing, 2007, 29, 2668-2685.	1.3	16
13	On the Equivalence between the Sigmoidal Approach and Utkin's Approach for Piecewise-Linear Models of Gene Regulatory Networks. SIAM Journal on Applied Dynamical Systems, 2014, 13, 1270-1292.	0.7	15
14	Improving knowledge on the activation of bone marrow fibroblasts in MGUS and MM disease through the automatic extraction of genes via a nonnegative matrix factorization approach on gene expression profiles. Journal of Translational Medicine, 2018, 16, 217.	1.8	14
15	Orthogonal joint sparse NMF for microarray data analysis. Journal of Mathematical Biology, 2019, 79, 223-247.	0.8	14
16	An NMF-Based Methodology for Selecting Biomarkers in the Landscape of Genes of Heterogeneous Cancer-Associated Fibroblast Populations. Bioinformatics and Biology Insights, 2020, 14, 117793222090682.	1.0	14
17	Geometric Integration on Manifold of Square Oblique Rotation Matrices. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 974-989.	0.7	13
18	On the Low-Rank Approximation of Data on the Unit Sphere. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 46-60.	0.7	13

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19	Computation of functions of Hamiltonian and skew-symmetric matrices. Mathematics and Computers in Simulation, 2008, 79, 1284-1297.	2.4	13
20	A New Ensemble Method for Detecting Anomalies in Gene Expression Matrices. Mathematics, 2021, 9, 882.	1.1	12
21	On the semigroup of standard symplectic matrices and its applications. Linear Algebra and Its Applications, 2004, 389, 215-225.	0.4	11
22	A Continuous Technique for the Weighted Low-Rank Approximation Problem. Lecture Notes in Computer Science, 2004, , 988-997.	1.0	9
23	A Survey on Methods for Computing Matrix Exponentials in Numerical Schemes for ODEs. Lecture Notes in Computer Science, 2003, , 111-120.	1.0	9
24	A model for the hepatic glucose metabolism based on Hill and step functions. Journal of Computational and Applied Mathematics, 2016, 292, 746-759.	1.1	8
25	Methods for Hyperparameters Optimization in Learning Approaches: An Overview. Lecture Notes in Computer Science, 2020, , 100-112.	1.0	8
26	Breast Cancerâ€™s Microarray Data: Pattern Discovery Using Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2016, , 281-292.	1.0	8
27	Q-matrix Extraction from Real Response Data Using Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2017, , 203-216.	1.0	8
28	Intelligent Twitter Data Analysis Based on Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2017, , 188-202.	1.0	7
29	Direct event location techniques based on Adams multistep methods for discontinuous ODEs. Applied Mathematics Letters, 2015, 49, 152-158.	1.5	6
30	Nonnegative Matrix Factorization models for knowledge extraction from biomedical and other real world data. Proceedings in Applied Mathematics and Mechanics, 2021, 20, .	0.2	6
31	A Dynamical System Approach for Continuous Nonnegative Matrix Factorization. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.4	5
32	Nonnegative Matrix Factorizations Performing Object Detection and Localization. Applied Computational Intelligence and Soft Computing, 2012, 2012, 1-19.	1.6	4
33	Robust embedded projective nonnegative matrix factorization for image analysis and feature extraction. Pattern Analysis and Applications, 2017, 20, 1045-1060.	3.1	4
34	Hybrid projective nonnegative matrix factorization based on Î±-divergence and the alternating least squares algorithm. Applied Mathematics and Computation, 2020, 369, 124825.	1.4	4
35	Analysis of fibroblast genes selected by NMF to reveal the potential crosstalk between ulcerative colitis and colorectal cancer. Experimental and Molecular Pathology, 2021, 123, 104713.	0.9	4
36	Numerical Integration of a Class of Ordinary Differential Equations on the General Linear Group of Matrices. Numerical Algorithms, 2003, 34, 271-281.	1.1	3

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37	Computation of few Lyapunov exponents by geodesic based algorithms. Future Generation Computer Systems, 2003, 19, 425-430.	4.9	3
38	On a multistep method approximating a linear sectorial evolution equation. IMA Journal of Numerical Analysis, 2002, 22, 481-499.	1.5	2
39	Runge Kutta Type Methods for Isodynamical Matrix Flows: Applications to Balanced Realizations. Computing (Vienna/New York), 2002, 68, 255-274.	3.2	2
40	Differential approaches for computing Euclidean diagonal norm balanced realizations in control theory. Future Generation Computer Systems, 2003, 19, 1155-1163.	4.9	2
41	A differential approach to solve the inverse eigenvalue problem derived from a neural network. Future Generation Computer Systems, 2006, 22, 441-446.	4.9	2
42	A Penalty Function for Computing Orthogonal Non-negative Matrix Factorizations. , 2009, , .		2
43	Part-Based Data Analysis with Masked Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2014, , 440-454.	1.0	2
44	Subtractive Initialization of Nonnegative Matrix Factorizations for Document Clustering. Lecture Notes in Computer Science, 2011, , 188-195.	1.0	1
45	Event Driven Approach for Simulating Gene Regulation Networks. Lecture Notes in Computer Science, 2014, , 415-425.	1.0	1
46	Computational techniques to locate crossing/sliding regions and their sets of attraction in non-smooth dynamical systems. Discrete and Continuous Dynamical Systems - Series B, 2018, 23, 2911-2934.	0.5	1
47	Colorectal cancer in Crohn's disease evaluated with genes belonging to fibroblasts of the intestinal mucosa selected by NMF. Pathology Research and Practice, 2021, 229, 153728.	1.0	1
48	Geometric numerical algorithms. Future Generation Computer Systems, 2003, 19, 327-329.	4.9	0
49	Optical Flow Estimation via Neural Singular Value Decomposition Learning. Lecture Notes in Computer Science, 2004, , 961-970.	1.0	0
50	Guest Editorial: Some important aspects on Structural Dynamical Systems and their numerical computation. Mathematics and Computers in Simulation, 2011, 81, 929-931.	2.4	0
51	Guest editorial: Structural dynamical systems, discontinuity and numerical methods. Mathematics and Computers in Simulation, 2015, 110, 1-2.	2.4	0
52	SDS2014 Guest Editorial. Mathematics and Computers in Simulation, 2016, 125, 1-2.	2.4	0
53	Some Remarks on Numerical Methods for Second Order Differential Equations on the Orthogonal Matrix Group. Lecture Notes in Computer Science, 2002, , 467-475.	1.0	0
54	A Hybrid Numerical Technique for the Solution of a Class of Implicit Matrix Differential Equation. Lecture Notes in Computer Science, 2004, , 459-466.	1.0	0

#	Article	IF	Citations
55	Preface: "Structural Dynamical Systems: Computational aspects". Discrete and Continuous Dynamical Systems - Series B, 2018, 23, i-i.	0.5	0