Nicoletta Del Buono

List of Publications by Year
in descending order

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	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
2	A New Ensemble Method for Detecting Anomalies in Gene Expression Matrices. Mathematics, 2021, 9, 882.	1.1	12
3	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
4	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
5	Hybrid projective nonnegative matrix factorization based on α-divergence and the alternating least squares algorithm. Applied Mathematics and Computation, 2020, 369, 124825.	1.4	4
6	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
7	Methods for Hyperparameters Optimization in Learning Approaches: An Overview. Lecture Notes in Computer Science, 2020, , 100-112.	1.0	8
8	Orthogonal joint sparse NMF for microarray data analysis. Journal of Mathematical Biology, 2019, 79, 223-247.	0.8	14
9	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
10	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
11	Preface: "Structural Dynamical Systems: Computational aspects". Discrete and Continuous Dynamical Systems - Series B, 2018, 23, i-i.	0.5	0
12	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
13	Robust embedded projective nonnegative matrix factorization for image analysis and feature extraction. Pattern Analysis and Applications, 2017, 20, 1045-1060.	3.1	4
14	A Dynamical System Approach for Continuous Nonnegative Matrix Factorization. Mediterranean Journal of Mathematics, 2017, 14, 1.	0.4	5
15	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
16	Intelligent Twitter Data Analysis Based on Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2017, , 188-202.	1.0	7
17	Q-matrix Extraction from Real Response Data Using Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2017, , 203-216.	1.0	8
18	SDS2014 Guest Editorial. Mathematics and Computers in Simulation, 2016, 125, 1-2.	2.4	0

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19	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
20	Nonnegative Matrix Factorizations for Intelligent Data Analysis. Signals and Communication Technology, 2016, , 49-74.	0.4	20
21	Breast Cancer's Microarray Data: Pattern Discovery Using Nonnegative Matrix Factorizations. Lecture Notes in Computer Science, 2016, , 281-292.	1.0	8
22	Non-negative Matrix Tri-Factorization for co-clustering: An analysis of the block matrix. Information Sciences, 2015, 301, 13-26.	4.0	48
23	Direct event location techniques based on Adams multistep methods for discontinuous ODEs. Applied Mathematics Letters, 2015, 49, 152-158.	1.5	6
24	Guest editorial: Structural dynamical systems, discontinuity and numerical methods. Mathematics and Computers in Simulation, 2015, 110, 1-2.	2.4	0
25	Subtractive clustering for seeding non-negative matrix factorizations. Information Sciences, 2014, 257, 369-387.	4.0	46
26	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
27	Part-Based Data Analysis with Masked Non-negative Matrix Factorization. Lecture Notes in Computer Science, 2014, , 440-454.	1.0	2
28	Event Driven Approach for Simulating Gene Regulation Networks. Lecture Notes in Computer Science, 2014, , 415-425.	1.0	1
29	Nonnegative Matrix Factorizations Performing Object Detection and Localization. Applied Computational Intelligence and Soft Computing, 2012, 2012, 1-19.	1.6	4
30	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
31	Subtractive Initialization of Nonnegative Matrix Factorizations for Document Clustering. Lecture Notes in Computer Science, 2011, , 188-195.	1.0	1
32	A Penalty Function for Computing Orthogonal Non-negative Matrix Factorizations. , 2009, , .		2
33	Computation of functions of Hamiltonian and skew-symmetric matrices. Mathematics and Computers in Simulation, 2008, 79, 1284-1297.	2.4	13
34	Total decoupling of general quadratic pencils, Part II: Structure preserving isospectral flows. Journal of Sound and Vibration, 2008, 309, 112-128.	2.1	19
35	Total decoupling of general quadratic pencils, Part I: Theory. Journal of Sound and Vibration, 2008, 309, 96-111.	2.1	28
36	Structured Quadratic Inverse Eigenvalue Problem, I. Serially Linked Systems. SIAM Journal of Scientific Computing, 2007, 29, 2668-2685.	1.3	16

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37	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
38	Computation of the Exponential of Large Sparse Skew-Symmetric Matrices. SIAM Journal of Scientific Computing, 2005, 27, 278-293.	1.3	22
39	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
40	Optical Flow Estimation via Neural Singular Value Decomposition Learning. Lecture Notes in Computer Science, 2004, , 961-970.	1.0	0
41	A Continuous Technique for the Weighted Low-Rank Approximation Problem. Lecture Notes in Computer Science, 2004, , 988-997.	1.0	9
42	On the semigroup of standard symplectic matrices and its applications. Linear Algebra and Its Applications, 2004, 389, 215-225.	0.4	11
43	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
44	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
45	Geometric numerical algorithms. Future Generation Computer Systems, 2003, 19, 327-329.	4.9	0
46	Computation of few Lyapunov exponents by geodesic based algorithms. Future Generation Computer Systems, 2003, 19, 425-430.	4.9	3
47	Differential approaches for computing Euclidean diagonal norm balanced realizations in control theory. Future Generation Computer Systems, 2003, 19, 1155-1163.	4.9	2
48	A Survey on Methods for Computing Matrix Exponentials in Numerical Schemes for ODEs. Lecture Notes in Computer Science, 2003, , 111-120.	1.0	9
49	On a multistep method approximating a linear sectorial evolution equation. IMA Journal of Numerical Analysis, 2002, 22, 481-499.	1.5	2
50	Geometric Integration on Manifold of Square Oblique Rotation Matrices. SIAM Journal on Matrix Analysis and Applications, 2002, 23, 974-989.	0.7	13
51	Runge Kutta Type Methods for Isodynamical Matrix Flows: Applications to Balanced Realizations. Computing (Vienna/New York), 2002, 68, 255-274.	3.2	2
52	Explicit methods based on a class of four stage fourth order Runge–Kutta methods for preserving quadratic laws. Journal of Computational and Applied Mathematics, 2002, 140, 231-243.	1.1	23
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	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

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55	Coupled oscillators and activity waves in ant colonies. Proceedings of the Royal Society B: Biological Sciences, 1999, 266, 371-378.	1.2	52