

# Raffaella Pavani

## List of Publications by Year in descending order

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37  
papers

276  
citations

1163117

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h-index

940533

16  
g-index

39  
all docs

39  
docs citations

39  
times ranked

161  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematics in the heart of Brunelleschi's dome. AIP Conference Proceedings, 2022, , .	0.4	0
2	The Use of Fragility Curves in the Life-Cycle Assessment of Deteriorating Bridge Structures. Computation, 2021, 9, 25.	2.0	2
3	Generalization of the concept of diagonal dominance with applications to matrix D-stability. Linear Algebra and Its Applications, 2021, 630, 204-224.	0.9	2
4	The Problem of Generalized D-Stability in Unbounded LMI Regions and Its Computational Aspects. Journal of Dynamics and Differential Equations, 2020, , 1.	1.9	6
5	The relevant role of calculus in renaissance domes' design, before differential geometry was born. AIP Conference Proceedings, 2020, , .	0.4	1
6	D-stability characterization problem can exhibit a polynomial computational complexity. AIP Conference Proceedings, 2019, , .	0.4	0
7	A new efficient approach to the characterization of D -stable matrices. Mathematical Methods in the Applied Sciences, 2018, 41, 4407-4416.	2.3	3
8	Variational formulation of the Melan equation. Mathematical Methods in the Applied Sciences, 2018, 41, 943-951.	2.3	9
9	On an unusual application of ODEs to solve linear systems. AIP Conference Proceedings, 2016, , .	0.4	0
10	A Fast Computation of the Best $k$ -Digit Rational Approximation to a Real Number. Mediterranean Journal of Mathematics, 2016, 13, 4321-4331.	0.8	2
11	A fast algorithm for the exactly $k$ -digit best rational approximation to a real number. AIP Conference Proceedings, 2015, , .	0.4	1
12	The impact of nonlinear restoring forces acting on hinged elastic beams. Bulletin of the Belgian Mathematical Society - Simon Stevin, 2015, 22, .	0.2	4
13	Wide Oscillation Finite Time Blow Up for Solutions to Nonlinear Fourth Order Differential Equations. Archive for Rational Mechanics and Analysis, 2013, 207, 717-752.	2.4	24
14	About characterization of D-stability by a computer algebra approach. AIP Conference Proceedings, 2013, , .	0.4	4
15	Symmetric block BVMs for the solution of conservative systems. , 2013, , .		0
16	About Earthquake Forecasting by Markov Renewal Processes. Methodology and Computing in Applied Probability, 2011, 13, 155-169.	1.2	16
17	Multilevel Monte Carlo for stochastic differential equations with additive fractional noise. Annals of Operations Research, 2011, 189, 255-276.	4.1	23
18	Blow up oscillating solutions to some nonlinear fourth order differential equations. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 6696-6711.	1.1	19

#	ARTICLE	IF	CITATIONS
19	Renewal models for earthquake predictability. Journal of Seismology, 2010, 14, 79-93.	1.3	8
20	Best $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si170.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle k \langle / \text{mml:mi} \rangle \langle / \text{mml:math} \rangle$ -digit rational bounds for irrational numbers: Pre- and super-computer era. Mathematical and Computer Modelling, 2009, 49, 1465-1482.	2.0	5
21	Synchronization of noisy dissipative systems under discretization. Journal of Difference Equations and Applications, 2009, 15, 785-801.	1.1	6
22	On the oscillation of certain third order nonlinear functional differential equations. Applied Mathematics and Computation, 2008, 202, 102-112.	2.2	75
23	On the representation of close-to-equilibrium solutions of $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/table-struct/dtd" \rangle$	2.0	0
24	The representation of periodic solutions of newtonian systems. Mathematical and Computer Modelling, 2005, 42, 1255-1262.	2.0	3
25	Numerical modelling in building reliability using both a probabilistic approach and a delay differential model. Mathematical and Computer Modelling, 2003, 38, 551-558.	2.0	1
26	ON THE STRUCTURE OF THE SOLUTIONS OF A TWO-PARAMETER FAMILY OF THREE-DIMENSIONAL ORDINARY DIFFERENTIAL EQUATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 1287-1298.	1.7	5
27	On the nature of the spectrum of the quasi-periodic Schrödinger operator. Nonlinear Analysis: Real World Applications, 2002, 3, 37-59.	1.7	17
28	Numerical Treatment of the Rotation Number for the Forced Pendulum. Lecture Notes in Computer Science, 2002, , 516-525.	1.3	1
29	On the decrement of energy in dissipative systems. Nonlinear Analysis: Theory, Methods & Applications, 2001, 47, 2573-2584.	1.1	0
30	The hyperbolic dirichlet problem. Mathematical and Computer Modelling, 2000, 32, 315-321.	2.0	0
31	Nearly defective complex eigenvalues in Bessel matrices. Linear Algebra and Its Applications, 1999, 295, 117-132.	0.9	0
32	The numerical approximation of the rotation number of planar maps. Computers and Mathematics With Applications, 1997, 33, 103-110.	2.7	5
33	A numerical approximation of the rotation number. Applied Mathematics and Computation, 1995, 73, 191-201.	2.2	11
34	Conjugating the Poincaré-map to a rotation. Annali Di Matematica Pura Ed Applicata, 1994, 166, 381-394.	1.0	6
35	Direct numerical solution of the Boltzmann equation on a parallel computer. Computers and Fluids, 1993, 22, 1-8.	2.5	3
36	On the choice of parameter in a method for the inversion of Fourier series. Mathematics of Computation, 1992, 58, 737-737.	2.1	4

#	ARTICLE	IF	CITATIONS
37	Direct numerical solution of the Boltzmann equation for a relaxation problem of a binary mixture of hard sphere gases. <i>Meccanica</i> , 1989, 24, 139-143.	2.0	7