John D Pryce

List of Publications by Year
in descending order

34	673	759190 12	580810 25
papers	citations	h-index	g-index

36	36	36	280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Another Multibody Dynamics in Natural Coordinates through Automatic Differentiation and High-Index DAE Solving. Acta Cybernetica, 2020, 24, 315-341.	0.6	1
2	How AD can help solve differential-algebraic equations. Optimization Methods and Software, 2018, 33, 729-749.	2.4	5
3	Structural analysis based dummy derivative selection for differential algebraic equations. BIT Numerical Mathematics, 2017, 57, 433-462.	2.0	1
4	Conversion methods for improving structural analysis of differential-algebraic equation systems. BIT Numerical Mathematics, 2017, 57, 845-865.	2.0	11
5	On Higher-Dimensional Fibonacci Numbers, Chebyshev Polynomials and Sequences of Vector Convergents. Journal De Theorie Des Nombres De Bordeaux, 2017, 29, 369-423.	0.1	2
6	The Forthcoming IEEE Standard 1788 for Interval Arithmetic. Lecture Notes in Computer Science, 2016, , 23-39.	1.3	4
7	Symbolic-Numeric Methods for Improving Structural Analysis of Differential-Algebraic Equation Systems. , 2016, , 763-773.		0
8	DAESAâ€”A Matlab Tool for Structural Analysis of Differential-Algebraic Equations. ACM Transactions on Mathematical Software, 2015, 41, 1-20.	2.9	14
9	Algorithm 948. ACM Transactions on Mathematical Software, 2015, 41, 1-14.	2.9	10
10	Uses of differential-algebraic equations for trajectory planning and feedforward control of spatially two-dimensional heat transfer processes. , 2013, , .		3
11	A differential-algebraic approach for robust control design and disturbance compensation of finite-dimensional models of heat transfer processes. , 2013, , .		12
12	Sensitivity analysis for systems of differential-algebraic equations with applications to predictive control and parameter estimation. , 2012, , .		3
13	Discussions on an Interval Arithmetic Standard at Dagstuhl Seminar 08021. Lecture Notes in Computer Science, 2009, , 1-6.	1.3	1
14	Fast Automatic Differentiation Jacobians by Compact LU Factorization. SIAM Journal of Scientific Computing, 2008, 30, 1659-1677.	2.8	3
15	Interval Subroutine Library Mission. Lecture Notes in Computer Science, 2008, , 28-43.	1.3	0
16	Solving differential-algebraic equations by Taylor series (II): Computing the System Jacobian. BIT Numerical Mathematics, 2007, 47, 121-135.	2.0	34
17	Interval Arithmetic with Containment Sets. Computing (Vienna/New York), 2006, 78, 251-276.	4.8	25
18	Solving Differential-Algebraic Equations by Taylor Series (I): Computing Taylor Coefficients. BIT Numerical Mathematics, 2005, 45, 561-591.	2.0	65

#	Article	IF	Citations
19	Jacobian code generated by source transformation and vertex elimination can be as efficient as hand-coding. ACM Transactions on Mathematical Software, 2004, 30, 266-299.	2.9	24
20	Hierarchical Automatic Differentiation by Vertex Elimination and Source Transformation. Lecture Notes in Computer Science, 2003, , 115-124.	1.3	3
21	AD Tools and Prospects for Optimal AD in CFD Flux Jacobian Calculations. , 2002, , 255-261.		7
22	Performance Issues for Vertex Elimination Methods in Computing Jacobians using Automatic Differentiation. Lecture Notes in Computer Science, 2002, , 1077-1086.	1.3	5
23	A Simple Structural Analysis Method for DAEs. BIT Numerical Mathematics, 2001, 41, 364-394.	2.0	110
24	Title is missing!. Reliable Computing, 2001, 7, 449-465.	0.8	97
25	Solving high-index DAEs by Taylor series. Numerical Algorithms, 1998, 19, 195-211.	1.9	49
26	LCNO Sturm-Liouville problems: computational difficulties and examples. Numerische Mathematik, 1995, 69, 303-320.	1.9	7
27	Efficient, Reliable Computation of Resonances of the One-Dimensional SchrÃ¶dinger Equation. Journal of Computational Physics, 1994, 112, 234-246.	3.8	3
28	Classical and vector sturmâ€"liouville problems: recent advances in singular-point analysis and shooting-type algorithms. Journal of Computational and Applied Mathematics, 1994, 50, 455-470.	2.0	5
29	Mixed block elimination for linear systems with wider borders. IMA Journal of Numerical Analysis, 1993, 13, 161-180.	2.9	48
30	Automatic solution of Sturm-Liouville problems using the Pruess method. Journal of Computational and Applied Mathematics, 1992, 39, 57-78.	2.0	58
31	A new multi-purpose software package for SchrÃ¶dinger and Sturm-Liouville computations. Computer Physics Communications, 1991, 62, 42-52.	7.5	22
32	A New Software Package for Sturm-Liouville and SchrÃ¶dinger Problems. International Journal of Modern Physics C, 1991, 02, 443-499.	1.7	0
33	Block elimination with one refinement solves bordered linear systems accurately. BIT Numerical Mathematics, 1990, 30, 490-507.	2.0	17
34	A singular value inequality for block matrices. Linear Algebra and Its Applications, 1989, 125, 141-148.	0.9	23