

John D Pryce

List of Publications by Year in descending order

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34
papers

673
citations

858243

12
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651938

25
g-index

36
all docs

36
docs citations

36
times ranked

314
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.	0.5	1
2	How AD can help solve differential-algebraic equations. Optimization Methods and Software, 2018, 33, 729-749.	1.6	5
3	Structural analysis based dummy derivative selection for differential algebraic equations. BIT Numerical Mathematics, 2017, 57, 433-462.	1.0	1
4	Conversion methods for improving structural analysis of differential-algebraic equation systems. BIT Numerical Mathematics, 2017, 57, 845-865.	1.0	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.	0.0	2
6	The Forthcoming IEEE Standard 1788 for Interval Arithmetic. Lecture Notes in Computer Science, 2016, , 23-39.	1.0	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.	1.6	14
9	Algorithm 948. ACM Transactions on Mathematical Software, 2015, 41, 1-14.	1.6	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.	1.0	1
14	Fast Automatic Differentiation Jacobians by Compact LU Factorization. SIAM Journal of Scientific Computing, 2008, 30, 1659-1677.	1.3	3
15	Interval Subroutine Library Mission. Lecture Notes in Computer Science, 2008, , 28-43.	1.0	0
16	Solving differential-algebraic equations by Taylor series (II): Computing the System Jacobian. BIT Numerical Mathematics, 2007, 47, 121-135.	1.0	34
17	Interval Arithmetic with Containment Sets. Computing (Vienna/New York), 2006, 78, 251-276.	3.2	25
18	Solving Differential-Algebraic Equations by Taylor Series (I): Computing Taylor Coefficients. BIT Numerical Mathematics, 2005, 45, 561-591.	1.0	65

#	ARTICLE	IF	CITATIONS
19	Jacobian code generated by source transformation and vertex elimination can be as efficient as hand-coding. <i>ACM Transactions on Mathematical Software</i> , 2004, 30, 266-299.	1.6	24
20	Hierarchical Automatic Differentiation by Vertex Elimination and Source Transformation. <i>Lecture Notes in Computer Science</i> , 2003, , 115-124.	1.0	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. <i>Lecture Notes in Computer Science</i> , 2002, , 1077-1086.	1.0	5
23	A Simple Structural Analysis Method for DAEs. <i>BIT Numerical Mathematics</i> , 2001, 41, 364-394.	1.0	110
24	Title is missing!. <i>Reliable Computing</i> , 2001, 7, 449-465.	0.8	97
25	Solving high-index DAEs by Taylor series. <i>Numerical Algorithms</i> , 1998, 19, 195-211.	1.1	49
26	LCNO Sturm-Liouville problems: computational difficulties and examples. <i>Numerische Mathematik</i> , 1995, 69, 303-320.	0.9	7
27	Efficient, Reliable Computation of Resonances of the One-Dimensional Schrödinger Equation. <i>Journal of Computational Physics</i> , 1994, 112, 234-246.	1.9	3
28	Classical and vector Sturm-Liouville problems: recent advances in singular-point analysis and shooting-type algorithms. <i>Journal of Computational and Applied Mathematics</i> , 1994, 50, 455-470.	1.1	5
29	Mixed block elimination for linear systems with wider borders. <i>IMA Journal of Numerical Analysis</i> , 1993, 13, 161-180.	1.5	48
30	Automatic solution of Sturm-Liouville problems using the Pruess method. <i>Journal of Computational and Applied Mathematics</i> , 1992, 39, 57-78.	1.1	58
31	A new multi-purpose software package for Schrödinger and Sturm-Liouville computations. <i>Computer Physics Communications</i> , 1991, 62, 42-52.	3.0	22
32	A New Software Package for Sturm-Liouville and Schrödinger Problems. <i>International Journal of Modern Physics C</i> , 1991, 02, 443-499.	0.8	0
33	Block elimination with one refinement solves bordered linear systems accurately. <i>BIT Numerical Mathematics</i> , 1990, 30, 490-507.	1.0	17
34	A singular value inequality for block matrices. <i>Linear Algebra and Its Applications</i> , 1989, 125, 141-148.	0.4	23