

Elisabeth Larsson

List of Publications by Year in descending order

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37
papers

1,793
citations

393982

19
h-index

414034

32
g-index

37
all docs

37
docs citations

37
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	A Least Squares Radial Basis Function Finite Difference Method with Improved Stability Properties. SIAM Journal of Scientific Computing, 2021, 43, A1441-A1471.	1.3	17
2	Local meshless methods for second order elliptic interface problems with sharp corners. Journal of Computational Physics, 2020, 416, 109500.	1.9	15
3	A First Meshless Approach to Simulation of the Elastic Behaviour of the Diaphragm. Lecture Notes in Computational Science and Engineering, 2020, , 501-512.	0.1	0
4	Tail Distribution and Extreme Quantile Estimation Using Non-parametric Approaches. Lecture Notes in Computer Science, 2019, , 69-87.	1.0	3
5	Why High-Performance Modelling and Simulation for Big Data Applications Matters. Lecture Notes in Computer Science, 2019, , 1-35.	1.0	6
6	DuctTeip: An efficient programming model for distributed task-based parallel computing. Parallel Computing, 2019, 90, 102582.	1.3	11
7	BENCHOP "SLV: the BENCHmarking project in Option Pricing "Stochastic and Local Volatility problems. International Journal of Computer Mathematics, 2019, 96, 1910-1923.	1.0	8
8	Parallelization of Hierarchical Matrix Algorithms for Electromagnetic Scattering Problems. Lecture Notes in Computer Science, 2019, , 36-68.	1.0	1
9	Forward deterministic pricing of options using Gaussian radial basis functions. Journal of Computational Science, 2018, 24, 209-217.	1.5	22
10	Radial Basis Function Methods for the Rosenau Equation and Other Higher Order PDEs. Journal of Scientific Computing, 2018, 75, 1555-1580.	1.1	25
11	A Least Squares Radial Basis Function Partition of Unity Method for Solving PDEs. SIAM Journal of Scientific Computing, 2017, 39, A2538-A2563.	1.3	67
12	Data-Intensive Modelling and Simulation in Life Sciences and Socio-economical and Physical Sciences. Data Science and Engineering, 2017, 2, 197-198.	4.6	2
13	Numerical Solution of the Viscous Flow Past a Cylinder with a Non-global Yet Spectrally Convergent Meshless Collocation Method. Lecture Notes in Computational Science and Engineering, 2017, , 495-507.	0.1	0
14	An adaptive interpolation scheme for molecular potential energy surfaces. Journal of Chemical Physics, 2016, 145, 084104.	1.2	4
15	Radial basis function partition of unity methods for pricing vanilla basket options. Computers and Mathematics With Applications, 2016, 71, 185-200.	1.4	85
16	Preconditioning for Radial Basis Function Partition of Unity Methods. Journal of Scientific Computing, 2016, 67, 1089-1109.	1.1	39
17	A scalable RBF"FD method for atmospheric flow. Journal of Computational Physics, 2015, 298, 406-422.	1.9	24
18	Resource-Aware Task Scheduling. Transactions on Embedded Computing Systems, 2015, 14, 1-25.	2.1	24

#	ARTICLE	IF	CITATIONS
19	BENCHOP – The BENCHmarking project in option pricing. International Journal of Computer Mathematics, 2015, 92, 2361-2379.	1.0	51
20	A Radial Basis Function Partition of Unity Collocation Method for Convection–Diffusion Equations Arising in Financial Applications. Journal of Scientific Computing, 2015, 64, 341-367.	1.1	131
21	Stable Computation of Differentiation Matrices and Scattered Node Stencils Based on Gaussian Radial Basis Functions. SIAM Journal of Scientific Computing, 2013, 35, A2096-A2119.	1.3	98
22	A Galerkin Radial Basis Function Method for the Schrödinger Equation. SIAM Journal of Scientific Computing, 2013, 35, A2832-A2855.	1.3	11
23	Programming Models Based on Data Versioning for Dependency-aware Task-based Parallelisation. , 2012, , .		4
24	Stable Computations with Gaussian Radial Basis Functions. SIAM Journal of Scientific Computing, 2011, 33, 869-892.	1.3	289
25	Radial Basis Functions for the Time-Dependent Schrödinger Equation. , 2011, , .		1
26	Using Hardware Transactional Memory for High-Performance Computing. , 2011, , .		2
27	A note on radial basis function interpolant limits. IMA Journal of Numerical Analysis, 2010, 30, 543-554.	1.5	19
28	Improved radial basis function methods for multi-dimensional option pricing. Journal of Computational and Applied Mathematics, 2008, 222, 82-93.	1.1	56
29	Multi-dimensional option pricing using radial basis functions and the generalized Fourier transform. Journal of Computational and Applied Mathematics, 2008, 222, 175-192.	1.1	38
30	A new class of oscillatory radial basis functions. Computers and Mathematics With Applications, 2006, 51, 1209-1222.	1.4	44
31	Theoretical and computational aspects of multivariate interpolation with increasingly flat radial basis functions. Computers and Mathematics With Applications, 2005, 49, 103-130.	1.4	173
32	Some observations regarding interpolants in the limit of flat radial basis functions. Computers and Mathematics With Applications, 2004, 47, 37-55.	1.4	146
33	Parallel Solution of the Helmholtz Equation in a Multilayer Domain. BIT Numerical Mathematics, 2003, 43, 387-411.	1.0	5
34	A numerical study of some radial basis function based solution methods for elliptic PDEs. Computers and Mathematics With Applications, 2003, 46, 891-902.	1.4	287
35	Helmholtz and parabolic equation solutions to a benchmark problem in ocean acoustics. Journal of the Acoustical Society of America, 2003, 113, 2446-2454.	0.5	16
36	Iterative Solution of the Helmholtz Equation by a Second-Order Method. SIAM Journal on Matrix Analysis and Applications, 1999, 21, 209-229.	0.7	32

#	ARTICLE	IF	CITATIONS
37	A Domain Decomposition Method for the Helmholtz Equation in a Multilayer Domain. SIAM Journal of Scientific Computing, 1999, 20, 1713-1731.	1.3	37