Harri Hakula

List of Publications by Year
in descending order

51	677	658053	554041
papers	citations	13 h-index	25 g-index

51	51	51	551
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Harmonic extension elements: Eigenproblems and error estimation. Computers and Mathematics With Applications, 2024, 163, 27-41.	2.4	0
2	On high-order finite element solution of eigenvalue problems on isospectral surfaces. Computers and Mathematics With Applications, 2024, 168, 22-32.	2.4	0
3	Conformal capacity and polycircular domains. Journal of Computational and Applied Mathematics, 2023, 420, 114802.	2.4	1
4	Free vibration of perforated cylindrical shells of revolution: Asymptotics and effective material parameters. Computer Methods in Applied Mechanics and Engineering, 2023, 403, 115700.	7.2	4
5	On effects of concentrated loads on perforated sensitive shells of revolution. Journal of Computational and Applied Mathematics, 2023, 428, 115165.	2.4	1
6	On Long-Range Characteristic Length Scales of Shell Structures. Eng, 2023, 4, 884-902.	2.5	0
7	Effects of Internal Boundary Layers and Sensitivity on Frequency Response of Shells of Revolution. Vibration, 2023, 6, 566-583.	1.5	0
8	Assessing the Structural Performance of Biodegradable Capsules. Applied Sciences (Switzerland), 2023, 13, 9232.	2.6	0
9	Subspace Reduction for Stochastic Planar Elasticity. Applied Mechanics, 2022, 3, 1-13.	1.7	0
10	Low-Rank Approximation of Frequency Response Analysis of Perforated Cylinders under Uncertainty. Applied Sciences (Switzerland), 2022, 12, 3559.	2.6	1
11	High order approximations of the operator Lyapunov equation have low rank. BIT Numerical Mathematics, 2022, , .	1.4	0
12	Resolving Boundary Layers with Harmonic Extension Finite Elements. Mathematical and Computational Applications, 2022, 27, 57.	1.5	1
13	Stochastic Static Analysis of Planar Elastic Structures with Multiple Spatially Uncertain Material Parameters. Applied Mechanics, 2022, 3, 974-994.	1.7	1
14	On Computational Asymptotic Analysis of General Sensitive Shells of Revolution. Applied Mechanics, 2022, 3, 1091-1106.	1.7	5
15	A Posteriori Error Estimates for Elliptic Eigenvalue Problems Using Auxiliary Subspace Techniques. Journal of Scientific Computing, 2021, 88, .	2.7	7
16	On effects of perforated domains on parameter-dependent free vibration. Journal of Computational and Applied Mathematics, 2021, 394, 113526.	2.4	6
17	Adaptive reference elements via harmonic extensions and associated inner modes. Computers and Mathematics With Applications, 2020, 80, 2272-2288.	2.4	3
18	What do we hear from a drum? A data-consistent approach to quantifying irreducible uncertainty on model inputs by extracting information from correlated model output data. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113228.	7.2	5

#	Article	IF	Citations
19	On effective material parameters of thin perforated shells under static loading. Computer Methods in Applied Mechanics and Engineering, 2020, 367, 113094.	7.2	4
20	The Conjugate Function Method and Conformal Mappings in Multiply Connected Domains. SIAM Journal of Scientific Computing, 2019, 41, A1753-A1776.	2.3	2
21	On capacity computation for symmetric polygonal condensers. Journal of Computational and Applied Mathematics, 2019, 361, 271-282.	2.4	11
22	Asymptotic convergence of spectral inverse iterations for stochastic eigenvalue problems. Numerische Mathematik, 2019, 142, 577-609.	1.9	8
23	Frequency Response Analysis of Perforated Shells with Uncertain Materials and Damage. Applied Sciences (Switzerland), 2019, 9, 5299.	2.6	8
24	Pointwise error estimate of the Legendre expansion: The known and unknown features. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 748-773.	7.2	8
25	Multiparametric shell eigenvalue problems. Computer Methods in Applied Mechanics and Engineering, 2019, 343, 721-745.	7.2	7
26	Spatial Mappings for Planning and Optimization of Cellular Networks. IEEE/ACM Transactions on Networking, 2018, 26, 175-188.	4.7	15
27	Efficient finite element method to estimate eddy current loss due to random interlaminar contacts in electrical sheets. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, .	2.2	1
28	An a posteriori estimator of eigenvalue/eigenvector error for penalty-type discontinuous Galerkin methods. Applied Mathematics and Computation, 2018, 319, 562-574.	1.9	5
29	Cylindrical Shell with Junctions: Uncertainty Quantification of Free Vibration and Frequency Response Analysis. Shock and Vibration, 2018, 2018, .	0.6	2
30	A Posteriori Estimates Using Auxiliary Subspace Techniques. Journal of Scientific Computing, 2017, 72, 97-127.	2.7	15
31	A Maximum Cluster Algorithm for Checking the Feasibility of Dial-A-Ride Instances. Transportation Science, 2015, 49, 295-310.	5.1	19
32	Reconstruction algorithm based on stochastic Galerkin finite element method for electrical impedance tomography. Inverse Problems, 2014, 30, 065006.	2.1	11
33	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si92.gif" display="inline" overflow="scroll"><mml:mi>h</mml:mi><mml:mi>p</mml:mi></mml:math>-boundary layer mesh sequences with applications to shell problems. Computers and Mathematics With Applications, 2014, 67, 899-917.	2.4	5
34	Application of stochastic Galerkin FEM to the complete electrode model of electrical impedance tomography. Journal of Computational Physics, 2014, 269, 181-200.	3.8	13
35	Routing by ranking: A link analysis method for the constrained dial-a-ride problem. Operations Research Letters, 2013, 41, 664-669.	0.9	4
36	Dynamic Journeying in Scheduled Networks. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 360-369.	10.0	13

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37	Dynamic journeying under uncertainty. European Journal of Operational Research, 2013, 225, 455-471.	6.4	20
38	Conjugate function method for numerical conformal mappings. Journal of Computational and Applied Mathematics, 2013, 237, 340-353.	2.4	13
39	On the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si42.gif" display="inline" overflow="scroll"><mml:mi>h</mml:mi><mml:mi>p</mml:mi></mml:math>-adaptive solution of complete electrode model forward problems of electrical impedance tomography. Journal of Computational and Applied Mathematics, 2012, 236, 4645-4659.	2.4	10
40	Mathematica implementation of the high order finite element method applied to eigenproblems. Computing (Vienna/New York), 2012, 95, 277-301.	3.2	17
41	Fine-tuning electrode information in electrical impedance tomography. Inverse Problems and Imaging, 2012, 6, 399-421.	1.5	35
42	On Moduli of Rings and Quadrilaterals: Algorithms and Experiments. SIAM Journal of Scientific Computing, 2011, 33, 279-302.	2.3	34
43	On the asymptotic behaviour of shells of revolution in free vibration. Computational Mechanics, 2009, 44, 45-60.	3.3	16
44	Conditionally Gaussian Hypermodels for Cerebral Source Localization. SIAM Journal on Imaging Sciences, 2009, 2, 879-909.	2.2	77
45	Free vibrations for some Koiter shells of revolution. Applied Mathematics Letters, 2008, 21, 1245-1248.	2.6	9
46	The Factorization Method Applied to the Complete Electrode Model of Impedance Tomography. SIAM Journal on Applied Mathematics, 2008, 68, 1097-1121.	1.8	49
47	Benchmark computations on point-loaded shallow shells: Fourier vs. FEM. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 894-907.	7.2	10
48	Numerical implementation of the factorization method within the complete electrode model of electrical impedance tomography. Inverse Problems and Imaging, 2007, 1, 299-317.	1.5	28
49	A High-Order Finite Element Method for Electrical Impedance Tomography. Progress in Electromagnetics Research Symposium: [proceedings] Progress in Electromagnetics Research Symposium, 2006, 2, 260-264.	0.3	7
50	Components of functional-structural tree models. Annals of Forest Science, 2000, 57, 399-412.	2.2	158
51	Conformal modulus and planar domains with strong singularities and cusps. Electronic Transactions on Numerical Analysis, 0, 48, 462-478.	0.0	8