Cosmin Anitescu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/11612909/publications.pdf

Version: 2024-02-01

33 papers	2,086 citations	394421 19 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	1457 citing authors

#	Article	IF	Citations
1	An isogeometric Burton-Miller method for the transmission loss optimization with application to mufflers with internal extended tubes. Applied Acoustics, 2022, 185, 108410.	3.3	17
2	A robust monolithic solver for phase-field fracture integrated with fracture energy based arc-length method and under-relaxation. Computer Methods in Applied Mechanics and Engineering, 2022, 394, 114927.	6.6	20
3	Modeling neuron growth using isogeometric collocation based phase field method. Scientific Reports, 2022, 12, 8120.	3.3	12
4	Domain adaptation based transfer learning approach for solving PDEs on complex geometries. Engineering With Computers, 2022, 38, 4569-4588.	6.1	7
5	Numerical investigations with eXtended isogeometric boundary element analysis (XIBEM) for direct and inverse Helmholtz acoustic problems. Engineering Analysis With Boundary Elements, 2022, 143, 535-546.	3.7	7
6	Optimizing the neural network hyperparameters utilizing genetic algorithm. Journal of Zhejiang University: Science A, 2021, 22, 407-426.	2.4	38
7	3D isogeometric boundary element analysis and structural shape optimization for Helmholtz acoustic scattering problems. Computer Methods in Applied Mechanics and Engineering, 2021, 384, 113950.	6.6	27
8	Parametric deep energy approach for elasticity accounting for strain gradient effects. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114096.	6.6	95
9	Structural shape optimization using BÃ©zier triangles and a CAD-compatible boundary representation. Engineering With Computers, 2020, 36, 1657-1672.	6.1	3
10	Pointwise dual weighted residual based goal-oriented a posteriori error estimation and adaptive mesh refinement in 2D/3D thermo-mechanical multifield problems. Computer Methods in Applied Mechanics and Engineering, 2020, 359, 112666.	6.6	8
11	Transfer learning enhanced physics informed neural network for phase-field modeling of fracture. Theoretical and Applied Fracture Mechanics, 2020, 106, 102447.	4.7	308
12	Extended isogeometric analysis. , 2020, , 315-358.		0
13	Implementation details. , 2020, , 581-598.		0
14	Isogeometric boundary element analysis and shape optimization by PSO for 3D axi-symmetric high frequency Helmholtz acoustic problems. Journal of Sound and Vibration, 2020, 486, 115598.	3.9	27
15	Adaptive fourth-order phase field analysis using deep energy minimization. Theoretical and Applied Fracture Mechanics, 2020, 107, 102527.	4.7	40
16	Adaptive fourth-order phase field analysis for brittle fracture. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112808.	6.6	69
17	Shape optimization by conventional and extended isogeometric boundary element method with PSO for two-dimensional Helmholtz acoustic problems. Engineering Analysis With Boundary Elements, 2020, 113, 156-169.	3.7	37
18	Enriched Isogeometric Collocation for two-dimensional time-harmonic acoustics. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 113033.	6.6	11

#	Article	IF	Citations
19	Strong multipatch C1-coupling for isogeometric analysis on 2D and 3D domains. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112599.	6.6	21
20	Adaptive phase field analysis with dual hierarchical meshes for brittle fracture. Engineering Fracture Mechanics, 2019, 218, 106608.	4.3	41
21	Joint image segmentation and registration based on a dynamic level set approach using truncated hierarchical B-splines. Computers and Mathematics With Applications, 2019, 78, 3250-3267.	2.7	8
22	An adaptive isogeometric analysis collocation method with a recovery-based error estimator. Computer Methods in Applied Mechanics and Engineering, 2019, 345, 52-74.	6.6	22
23	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e2004" altimg="si2.gif"><mml:mi>h</mml:mi></mml:math>- and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e2009" altimg="si267.gif"><mml:mi>p</mml:mi></mml:math>-adaptivity driven by recovery and residual-based error estimators for PHT-splines applied to time-harmonic acoustics. Computers and Mathematics With Applications, 2019, 77, 2369-2395.	2.7	44
24	Artificial Neural Network Methods for the Solution of Second Order Boundary Value Problems. Computers, Materials and Continua, 2019, 59, 345-359.	1.9	437
25	Recovery-based error estimation and adaptivity using high-order splines over hierarchical T-meshes. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 638-662.	6.6	65
26	Adaptive Isogeometric analysis for plate vibrations: An efficient approach of local refinement based on hierarchical a posteriori error estimation. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 251-286.	6.6	42
27	DTHB3D_Reg: Dynamic Truncated Hierarchical B-Spline Based 3D Nonrigid Image Registration. Communications in Computational Physics, 2018, 23, .	1.7	11
28	Two and Three Dimensional Image Registration Based on B-Spline Composition and Level Sets. Communications in Computational Physics, 2017, 21, 600-622.	1.7	11
29	Volumetric parametrization from a level set boundary representation with PHT-splines. CAD Computer Aided Design, 2017, 82, 29-41.	2.7	36
30	Adaptive FEM-based nonrigid image registration using truncated hierarchical B-splines. Computers and Mathematics With Applications, 2016, 72, 2028-2040.	2.7	15
31	Isogeometric analysis: An overview and computer implementation aspects. Mathematics and Computers in Simulation, 2015, 117, 89-116.	4.4	478
32	An isogeometric collocation method using superconvergent points. Computer Methods in Applied Mechanics and Engineering, 2015, 284, 1073-1097.	6.6	97
33	High velocity impact of metal sphere on thin metallic plate using smooth particle hydrodynamics (SPH) method. Frontiers of Structural and Civil Engineering, 2012, 6, 101-110.	2.9	32