

Cosmin Anitescu

List of Publications by Year in descending order

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papers

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docs citations

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times ranked

1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Isogeometric analysis: An overview and computer implementation aspects. <i>Mathematics and Computers in Simulation</i> , 2015, 117, 89-116.	4.4	478
2	Artificial Neural Network Methods for the Solution of Second Order Boundary Value Problems. <i>Computers, Materials and Continua</i> , 2019, 59, 345-359.	1.9	437
3	Transfer learning enhanced physics informed neural network for phase-field modeling of fracture. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 106, 102447.	4.7	308
4	An isogeometric collocation method using superconvergent points. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 284, 1073-1097.	6.6	97
5	Parametric deep energy approach for elasticity accounting for strain gradient effects. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 114096.	6.6	95
6	Adaptive fourth-order phase field analysis for brittle fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112808.	6.6	69
7	Recovery-based error estimation and adaptivity using high-order splines over hierarchical T-meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 328, 638-662.	6.6	65
8	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e2004" altimg="si2.gif"} \rangle \langle \text{mml:mi} \rangle \text{h} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle - \text{and} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e2009" altimg="si267.gif"} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -adaptivity driven by recovery and residual-based error estimators for PHT-splines applied to time-harmonic acoustics. <i>Computers and Mathematics With Applications</i> , 2019, 77, 2369-2395.	2.7	44
9	Adaptive isogeometric analysis for plate vibrations: An efficient approach of local refinement based on hierarchical a posteriori error estimation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 342, 251-286.	6.6	42
10	Adaptive phase field analysis with dual hierarchical meshes for brittle fracture. <i>Engineering Fracture Mechanics</i> , 2019, 218, 106608.	4.3	41
11	Adaptive fourth-order phase field analysis using deep energy minimization. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 107, 102527.	4.7	40
12	Optimizing the neural network hyperparameters utilizing genetic algorithm. <i>Journal of Zhejiang University: Science A</i> , 2021, 22, 407-426.	2.4	38
13	Shape optimization by conventional and extended isogeometric boundary element method with PSO for two-dimensional Helmholtz acoustic problems. <i>Engineering Analysis With Boundary Elements</i> , 2020, 113, 156-169.	3.7	37
14	Volumetric parametrization from a level set boundary representation with PHT-splines. <i>CAD Computer Aided Design</i> , 2017, 82, 29-41.	2.7	36
15	High velocity impact of metal sphere on thin metallic plate using smooth particle hydrodynamics (SPH) method. <i>Frontiers of Structural and Civil Engineering</i> , 2012, 6, 101-110.	2.9	32
16	Isogeometric boundary element analysis and shape optimization by PSO for 3D axi-symmetric high frequency Helmholtz acoustic problems. <i>Journal of Sound and Vibration</i> , 2020, 486, 115598.	3.9	27
17	3D isogeometric boundary element analysis and structural shape optimization for Helmholtz acoustic scattering problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113950.	6.6	27
18	An adaptive isogeometric analysis collocation method with a recovery-based error estimator. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 345, 52-74.	6.6	22

#	ARTICLE	IF	CITATIONS
19	Strong multipatch C1-coupling for isogeometric analysis on 2D and 3D domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 357, 112599.	6.6	21
20	A robust monolithic solver for phase-field fracture integrated with fracture energy based arc-length method and under-relaxation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 394, 114927.	6.6	20
21	An isogeometric Burton-Miller method for the transmission loss optimization with application to mufflers with internal extended tubes. <i>Applied Acoustics</i> , 2022, 185, 108410.	3.3	17
22	Adaptive FEM-based nonrigid image registration using truncated hierarchical B-splines. <i>Computers and Mathematics With Applications</i> , 2016, 72, 2028-2040.	2.7	15
23	Modeling neuron growth using isogeometric collocation based phase field method. <i>Scientific Reports</i> , 2022, 12, 8120.	3.3	12
24	Two and Three Dimensional Image Registration Based on B-Spline Composition and Level Sets. <i>Communications in Computational Physics</i> , 2017, 21, 600-622.	1.7	11
25	Enriched Isogeometric Collocation for two-dimensional time-harmonic acoustics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 365, 113033.	6.6	11
26	DTHB3D_Reg: Dynamic Truncated Hierarchical B-Spline Based 3D Nonrigid Image Registration. <i>Communications in Computational Physics</i> , 2018, 23, .	1.7	11
27	Joint image segmentation and registration based on a dynamic level set approach using truncated hierarchical B-splines. <i>Computers and Mathematics With Applications</i> , 2019, 78, 3250-3267.	2.7	8
28	Pointwise dual weighted residual based goal-oriented a posteriori error estimation and adaptive mesh refinement in 2D/3D thermo-mechanical multifield problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 359, 112666.	6.6	8
29	Domain adaptation based transfer learning approach for solving PDEs on complex geometries. <i>Engineering With Computers</i> , 2022, 38, 4569-4588.	6.1	7
30	Numerical investigations with eXtended isogeometric boundary element analysis (XIBEM) for direct and inverse Helmholtz acoustic problems. <i>Engineering Analysis With Boundary Elements</i> , 2022, 143, 535-546.	3.7	7
31	Structural shape optimization using BÄzier triangles and a CAD-compatible boundary representation. <i>Engineering With Computers</i> , 2020, 36, 1657-1672.	6.1	3
32	Extended isogeometric analysis. , 2020, , 315-358.		0
33	Implementation details. , 2020, , 581-598.		0