Konstantinos Agathos

List of Publications by Year
in descending order

18 papers	506 citations

840119	940134
11 h-index	16 g-index

18 all docs	18 docs citations

18 times ranked	277 citing authors

#	Article	IF	Citations
1	On the Coupling of Reduced Order Modeling with Substructuring of Structural Systems with Component Nonlinearities. Conference Proceedings of the Society for Experimental Mechanics, 2022, , 35-43.	0.3	3
2	Parametric reduced order models for output-only vibration-based crack detection in shell structures. Mechanical Systems and Signal Processing, 2022, 162, 108051.	4.4	15
3	Parametric Model Order Reduction for Localized Nonlinear Feature Inclusion. , 2022, , 373-383.		3
4	An adapted deflated conjugate gradient solver for robust extended/generalised finite element solutions of large scale, 3D crack propagation problems. Computer Methods in Applied Mechanics and Engineering, 2022, 395, 114937.	3.4	6
5	Moment fitted cut spectral elements for explicit analysis of guided wave propagation. Computer Methods in Applied Mechanics and Engineering, 2022, 398, 115140.	3.4	9
6	Crack detection in Mindlin-Reissner plates under dynamic loads based on fusion of data and models. Computers and Structures, 2021, 246, 106475.	2.4	11
7	A local basis approximation approach for nonlinear parametric model order reduction. Journal of Sound and Vibration, 2021, 502, 116055.	2.1	16
8	Taylor-Series Expansion Based Numerical Methods: A Primer, Performance Benchmarking and New Approaches for Problems with Non-smooth Solutions. Archives of Computational Methods in Engineering, 2020, 27, 1465-1513.	6.0	20
9	Parametrized reduced order modeling for cracked solids. International Journal for Numerical Methods in Engineering, 2020, 121, 4537-4565.	1.5	15
10	Discrete and Phase Field Methods for Linear Elastic Fracture Mechanics: A Comparative Study and State-of-the-Art Review. Applied Sciences (Switzerland), 2019, 9, 2436.	1.3	43
11	A unified enrichment approach addressing blending and conditioning issues in enriched finite elements. Computer Methods in Applied Mechanics and Engineering, 2019, 349, 673-700.	3.4	32
12	Improving the conditioning of XFEM/GFEM for fracture mechanics problems through enrichment quasi-orthogonalization. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 1051-1073.	3.4	68
13	Multiple crack detection in 3D using a stable XFEM and global optimization. Computational Mechanics, 2018, 62, 835-852.	2.2	54
14	Stable 3D XFEM/vector level sets for nonâ€planar 3D crack propagation and comparison of enrichment schemes. International Journal for Numerical Methods in Engineering, 2018, 113, 252-276.	1.5	61
15	Well Conditioned Extended Finite Elements and Vector Level Sets for Three-Dimensional Crack Propagation. Lecture Notes in Computational Science and Engineering, 2017, , 307-329.	0.1	7
16	Stable 3D extended finite elements with higher order enrichment for accurate non planar fracture. Computer Methods in Applied Mechanics and Engineering, 2016, 306, 19-46.	3.4	69
17	A wellâ€conditioned and optimally convergent XFEM for 3D linear elastic fracture. International Journal for Numerical Methods in Engineering, 2016, 105, 643-677.	1.5	72
18	3D Crack Detection Using an XFEM Variant and Global Optimization Algorithms. , 0, , .		2