

Oubay Hassan

List of Publications by Year in descending order

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48
papers

698
citations

516710

16
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580821

25
g-index

51
all docs

51
docs citations

51
times ranked

438
citing authors

#	ARTICLE	IF	CITATIONS
1	On the subsonic and low transonic aerodynamic performance of the land speed record car, Bloodhound LSR. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2022, 236, 1895-1921.	1.3	2
2	A 3D Unstructured Mesh FDTD Scheme for EM Modelling. Archives of Computational Methods in Engineering, 2021, 28, 181-213.	10.2	3
3	EM modelling of arbitrary shaped dispersive chiral dielectric objects using a 3D leapfrog scheme on unstructured meshes. Computational Mechanics, 2021, 67, 251-263.	4.0	1
4	An application of neural networks to the prediction of aerodynamic coefficients of aerofoils and wings. Applied Mathematical Modelling, 2021, 96, 456-479.	4.2	23
5	A coupled HDG-FV scheme for the simulation of transient inviscid compressible flows. Computers and Fluids, 2020, 202, 104495.	2.5	6
6	Discrete boundary smoothing using control node parameterisation for aerodynamic shape optimisation. Applied Mathematical Modelling, 2017, 48, 113-133.	4.2	1
7	Improved boundary constrained tetrahedral mesh generation by shell transformation. Applied Mathematical Modelling, 2017, 51, 764-790.	4.2	12
8	An approach to modeling blast and fragment risks from improvised explosive devices. Applied Mathematical Modelling, 2017, 50, 715-731.	4.2	15
9	Advances in co-volume mesh generation and mesh optimisation techniques. Computers and Structures, 2017, 181, 70-88.	4.4	5
10	The generation of triangular meshes for NURBS-enhanced FEM. International Journal for Numerical Methods in Engineering, 2016, 108, 941-968.	2.8	20
11	An Euler-Lagrange particle approach for modeling fragments accelerated by explosive detonation. International Journal for Numerical Methods in Engineering, 2016, 106, 904-926.	2.8	11
12	A novel implementation of computational aerodynamic shape optimisation using Modified Cuckoo Search. Applied Mathematical Modelling, 2016, 40, 4543-4559.	4.2	18
13	A feature-based mesh adaptation for the unsteady high speed compressible flows in complex three-dimensional domains. Applied Mathematical Modelling, 2016, 40, 1728-1740.	4.2	0
14	MESH GENERATION FOR THE 2D NURBS-ENHANCED FINITE ELEMENT METHOD. , 2016, , .		1
15	An effective 3D leapfrog scheme for electromagnetic modelling of arbitrary shaped dielectric objects using unstructured meshes. Computational Mechanics, 2015, 56, 1023-1037.	4.0	5
16	A method for compressible multimaterial flows with condensed phase explosive detonation and airblast on unstructured grids. Computers and Fluids, 2015, 111, 76-90.	2.5	16
17	Numerical modelling of concentration polarisation and cake formation in membrane filtration processes. Desalination, 2015, 365, 151-159.	8.2	14
18	Strategies for Generating Well Centered Tetrahedral Meshes on Industrial Geometries. SEMA SIMAI Springer Series, 2015, , 161-180.	0.7	1

#	ARTICLE	IF	CITATIONS
19	The use of hybrid meshes to improve the efficiency of a discontinuous Galerkin method for the solution of Maxwell's equations. <i>Computers and Structures</i> , 2014, 137, 2-13.	4.4	17
20	Spray drag effect of fluidized sand for a supersonic vehicle. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2014, 2, 169-177.	0.2	2
21	The generation of arbitrary order curved meshes for 3D finite element analysis. <i>Computational Mechanics</i> , 2013, 51, 361-374.	4.0	100
22	Selected Engineering Applications of Gradient Free Optimisation Using Cuckoo Search and Proper Orthogonal Decomposition. <i>Archives of Computational Methods in Engineering</i> , 2013, 20, 123-154.	10.2	24
23	An analysis of the performance of a high-order stabilised finite element method for simulating compressible flows. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 253, 15-27.	6.6	21
24	Finite element analysis modelling of proximal femoral fractures, including post-fixation periprosthetic fractures. <i>Injury</i> , 2013, 44, 791-795.	1.7	10
25	A Review of the Development and Applications of the Cuckoo Search Algorithm. , 2013, , 257-271.		20
26	A discontinuous finite element solution of the Boltzmann kinetic equation in collisionless and BGK forms for macroscopic gas flows. <i>Applied Mathematical Modelling</i> , 2011, 35, 996-1015.	4.2	14
27	Scale Adaptive Simulations over a Supersonic Car. , 2011, , 779-787.		0
28	A parallel implicit/explicit hybrid time domain method for computational electromagnetics. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 80, 1093-1109.	2.8	8
29	A High Order Finite Volume-HLLC Solver and Anisotropic Delaunay Mesh Adaptation. , 2009, , .		2
30	Comparison of Two Explicit Time Domain Unstructured Mesh Algorithms for Computational Electromagnetics. <i>Computational Methods in Applied Sciences (Springer)</i> , 2008, , 95-112.	0.3	2
31	Unstructured mesh methods for the solution of the unsteady compressible flow equations with moving boundary components. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 2531-2552.	3.4	11
32	Generating the Voronoi-Delaunay Dual Diagram for Co-Volume Integration Schemes. , 2007, , .		8
33	Parallel remeshing of unstructured volume grids for CFD applications. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1361-1379.	1.6	19
34	Electromagnetic scattering simulation using an $H(\text{curl})$ conforming hp finite element method in three dimensions. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1267-1296.	1.6	7
35	A method for time accurate turbulent compressible fluid flow simulation with moving boundary components employing local remeshing. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 53, 1243-1266.	1.6	42
36	A stitching method for the generation of unstructured meshes for use with co-volume solution techniques. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 1826-1845.	6.6	40

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37	EQSM: An efficient high quality surface grid generation method based on remeshing. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 5621-5633.	6.6	31
38	Efficient surface reconstruction from contours based on two-dimensional Delaunay triangulation. International Journal for Numerical Methods in Engineering, 2006, 65, 734-751.	2.8	27
39	Enhanced remeshing from STL files with applications to surface grid generation. Communications in Numerical Methods in Engineering, 2006, 23, 227-239.	1.3	43
40	Smooth Delaunay-Voronoi Dual Meshes for Co-Volume Integration Schemes. , 2006, , 529-541.		7
41	Parallel generation of unstructured surface grids. Engineering With Computers, 2005, 21, 36-46.	6.1	5
42	Explicit Time Domain Finite Element Methods for Electromagnetics. , 2005, , 161-181.		0
43	A low-order unstructured mesh approach for computational electromagnetics in the time domain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 445-469.	3.4	19
44	Fully automatic and fast mesh size specification for unstructured mesh generation. Engineering With Computers, 2004, 20, 237-248.	6.1	25
45	Automatic unstructured surface mesh generation for complex configurations. International Journal for Numerical Methods in Fluids, 2004, 45, 341-364.	1.6	23
46	A multigrid accelerated time-accurate inviscid compressible fluid flow solution algorithm employing mesh movement and local remeshing. International Journal for Numerical Methods in Fluids, 2003, 43, 517-536.	1.6	14
47	Robust Generation of Unstructured Surface Grids About Complex Configurations Using "Real-Design" CAD. , 2003, , .		2
48	A Parallel Finite Volume Method for Aerodynamic Flows. Lecture Notes in Computer Science, 2002, , 816-823.	1.3	0