Panagiotis Tsoutsanis

List of Publications by Year
in descending order

31 papers	1,530 citations	687363 13 h-index	677142 22 g-index
31 all docs	31 docs citations	31 times ranked	724 citing authors

#	Article	IF	Citations
1	WENO schemes on arbitrary mixed-element unstructured meshes in three space dimensions. Journal of Computational Physics, 2011, 230, 1585-1601.	3.8	417
2	WENO schemes on arbitrary unstructured meshes for laminar, transitional and turbulent flows. Journal of Computational Physics, 2014, 256, 254-276.	3.8	340
3	Comparison of structured- and unstructured-grid, compressible and incompressible methods using the vortex pairing problem. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 207-231.	6.6	325
4	WENO Schemes for Mixed-element Unstructured Meshes. Communications in Computational Physics, 2010, 8, 585-609.	1.7	86
5	Assessment of high-order finite volume methods on unstructured meshes for RANS solutions of aeronautical configurations. Computers and Fluids, 2017, 146, 86-104.	2.5	38
6	Extended bounds limiter for high-order finite-volume schemes on unstructured meshes. Journal of Computational Physics, 2018, 362, 69-94.	3.8	30
7	Improvement of the computational performance of a parallel unstructured WENO finite volume CFD code for Implicit Large Eddy Simulation. Computers and Fluids, 2018, 173, 157-170.	2.5	29
8	WENO schemes on unstructured meshes using a relaxed a posteriori MOOD limiting approach. Computer Methods in Applied Mechanics and Engineering, 2020, 363, 112921.	6.6	28
9	Simple multiple reference frame for high-order solution of hovering rotors with and without ground effect. Aerospace Science and Technology, 2021, 111, 106518.	4.8	28
10	Arbitrary high order central non-oscillatory schemes on mixed-element unstructured meshes. Computers and Fluids, 2021, 225, 104961.	2.5	28
11	UCNS3D: An open-source high-order finite-volume unstructured CFD solver. Computer Physics Communications, 2022, 279, 108453.	7.5	25
12	Hovering rotor solutions by high-order methods on unstructured grids. Aerospace Science and Technology, 2020, 97, 105648.	4.8	21
13	CWENO Finite-Volume Interface Capturing Schemes for Multicomponent Flows Using Unstructured Meshes. Journal of Scientific Computing, 2021, 89, 1.	2.3	19
14	Complete Body Aerodynamic Study of three Vehicles. , 0, , .		17
15	Stencil selection algorithms for WENO schemes on unstructured meshes. Journal of Computational Physics: X, 2019, 4, 100037.	0.7	12
16	A reduced-dissipation WENO scheme with automatic dissipation adjustment. Journal of Computational Physics, 2021, 425, 109749.	3.8	12
17	Full Vehicle Aero-Thermal Cooling Drag Sensitivity Analysis for Various Radiator Pressure Drops. , 0, , .		10
18	Low-Mach number treatment for Finite-Volume schemes on unstructured meshes. Applied Mathematics and Computation, 2018, 336, 368-393.	2.2	10

#	Article	IF	Citations
19	A high-order finite-volume method for atmospheric flows on unstructured grids. Journal of Coupled Systems and Multiscale Dynamics, 2016, 4, 170-186.	0.2	10
20	High-order Schemes on Mixed-element Unstructured Grids for Aerodynamic Flows. , 2012, , .		7
21	Assessment of air flow distribution and hazardous release dispersion around a single obstacle using Reynolds-averaged Navier-Stokes equations. Heliyon, 2019, 5, e01482.	3.2	7
22	Large eddy simulation of dispersion of hazardous materials released from a fire accident around a cubical building. Environmental Science and Pollution Research, 2021, 28, 50363-50377.	5.3	7
23	Improving the Curing Cycle Time through the Numerical Modeling of air Flow in Industrial Continuous Convection Ovens. Procedia CIRP, 2017, 63, 499-504.	1.9	6
24	High-Order Methods for Hypersonic Shock Wave Turbulent Boundary Layer Interaction Flow. , 2015, , .		4
25	Computational Assessment of the Hazardous Release Dispersion from a Diesel Pool Fire in a Complex Building's Area. Computation, 2018, 6, 65.	2.0	3
26	Stencil selection algorithms for WENO schemes on unstructured meshes. Journal of Computational Physics, 2023, 475, 108840.	3.8	3
27	ADDRESSING THE CHALLENGES OF IMPLEMENTATION OF HIGH-ORDER FINITE-VOLUME SCHEMES FOR ATMOSPHERIC DYNAMICS ON UNSTRUCTURED MESHES. , 2016, , .		3
28	ADAPTIVE MESH REFINEMENT TECHNIQUES FOR HIGH-ORDER FINITE-VOLUME WENO SCHEME. , 2016, , .		3
29	IMPLEMENTATION OF A LOW-MACH NUMBER MODIFICATION FOR HIGH-ORDER FINITE-VOLUME SCHEMES FOR ARBITRARY HYBRID UNSTRUCTURED MESHES. , 2016, , .		2
30	Diesel Pool Fire Incident Inside an Urban Street Canyon. Lecture Notes in Mechanical Engineering, 2019, , 339-350.	0.4	0
31	Numerical investigation of full helicopter with and without the ground effect. Aerospace Science and Technology, 2022, 122, 107401.	4.8	0