

Frédéric Alauzet

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,579
citations

471509

17
h-index

434195

31
g-index

53
all docs

53
docs citations

53
times ranked

636
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Nonlinear corrector for Reynolds-averaged Navier-Stokes equations. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 91, 557-585. | 1.6 | 4 |
| 20 | Verification of Unstructured Grid Adaptation Components. , 2019, , . | | 11 |
| 21 | Magnetic cage and rope as the key for solar eruptions. <i>Nature</i> , 2018, 554, 211-215. | 27.8 | 108 |
| 22 | Connectivity-change moving mesh methods for high-order meshes: Toward closed advancing-layer high-order boundary layer mesh generation. , 2018, , . | | 2 |
| 23 | Time-accurate anisotropic mesh adaptation for three-dimensional time-dependent problems with body-fitted moving geometries. <i>Journal of Computational Physics</i> , 2017, 331, 157-187. | 3.8 | 15 |
| 24 | Anisotropic mesh adaptation for turbomachinery applications. , 2017, , . | | 4 |
| 25 | Nitsche-XFEM for the coupling of an incompressible fluid with immersed thin-walled structures. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 301, 300-335. | 6.6 | 58 |
| 26 | A parallel matrix-free conservative solution interpolation on unstructured tetrahedral meshes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 299, 116-142. | 6.6 | 41 |
| 27 | A decade of progress on anisotropic mesh adaptation for computational fluid dynamics. <i>CAD Computer Aided Design</i> , 2016, 72, 13-39. | 2.7 | 133 |
| 28 | Parallel Generation of Large-size Adapted Meshes. <i>Procedia Engineering</i> , 2015, 124, 57-69. | 1.2 | 28 |
| 29 | Anisotropic Norm-Oriented Mesh Adaptation for Compressible Flows. , 2015, , . | | 11 |
| 30 | Metric-Based Anisotropic Mesh Adaptation for Three-Dimensional Time-Dependent Problems Involving Moving Geometries. , 2015, , . | | 5 |
| 31 | A closed advancing-layer method with connectivity optimization-based mesh movement for viscous mesh generation. <i>Engineering With Computers</i> , 2015, 31, 545-560. | 6.1 | 8 |
| 32 | Large displacement body-fitted FSI simulations using a mesh-connectivity-change moving mesh strategy. , 2014, , . | | 3 |
| 33 | A changing-topology moving mesh technique for large displacements. <i>Engineering With Computers</i> , 2014, 30, 175-200. | 6.1 | 70 |
| 34 | Aligned Metric-based Anisotropic Solution Adaptive Mesh Generation. <i>Procedia Engineering</i> , 2014, 82, 428-444. | 1.2 | 27 |
| 35 | Two Mesh Deformation Methods Coupled with a Changing-connectivity Moving Mesh Method for CFD Applications. <i>Procedia Engineering</i> , 2014, 82, 213-227. | 1.2 | 6 |
| 36 | Time accurate anisotropic goal-oriented mesh adaptation for unsteady flows. <i>Journal of Computational Physics</i> , 2012, 231, 6323-6348. | 3.8 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | A New Changing-Topology ALE Scheme for Moving Mesh Unsteady Simulations.. , 2011, , . | | 11 |
| 38 | Extension of Metric-Based Anisotropic Mesh Adaptation to Time-Dependent Problems Involving Moving Geometries. , 2011, , . | | 17 |
| 39 | Continuous Mesh Framework Part I: Well-Posed Continuous Interpolation Error. SIAM Journal on Numerical Analysis, 2011, 49, 38-60. | 2.3 | 197 |
| 40 | Continuous Mesh Framework Part II: Validations and Applications. SIAM Journal on Numerical Analysis, 2011, 49, 61-86. | 2.3 | 136 |
| 41 | A Numerical Study of Some Hessian Recovery Techniques on Isotropic and Anisotropic Meshes. SIAM Journal of Scientific Computing, 2011, 33, 1058-1076. | 2.8 | 20 |
| 42 | Anisotropic Goal-Oriented Mesh Adaptation for Time Dependent Problems. , 2011, , 99-121. | | 3 |
| 43 | L^1 -conservative solution interpolation on unstructured triangular meshes. International Journal for Numerical Methods in Engineering, 2010, 84, 1552-1588. | 2.8 | 57 |
| 44 | An L^2 - z -adaptive method for computing unsteady bi-fluid flows. International Journal for Numerical Methods in Engineering, 2010, 84, 1376-1406. | 2.8 | 18 |
| 45 | High-order sonic boom modeling based on adaptive methods. Journal of Computational Physics, 2010, 229, 561-593. | 3.8 | 150 |
| 46 | On the Use of Space Filling Curves for Parallel Anisotropic Mesh Adaptation. , 2009, , 337-357. | | 27 |
| 47 | High-order methods and mesh adaptation for Euler equations. International Journal for Numerical Methods in Fluids, 2008, 56, 1069-1076. | 1.6 | 17 |
| 48 | Achievement of Global Second Order Mesh Convergence for Discontinuous Flows with Adapted Unstructured Meshes. , 2007, , . | | 50 |
| 49 | 3D transient fixed point mesh adaptation for time-dependent problems: Application to CFD simulations. Journal of Computational Physics, 2007, 222, 592-623. | 3.8 | 104 |
| 50 | Parallel anisotropic 3D mesh adaptation by mesh modification. Engineering With Computers, 2006, 21, 247-258. | 6.1 | 50 |
| 51 | Adaptation de maillages non structurés pour des problèmes instationnaires. Comptes Rendus Mathématique, 2002, 335, 773-778. | 0.3 | 4 |
| 52 | Non-manifold anisotropic mesh adaptation: application to fluid-structure interaction. Engineering With Computers, 0, , 1. | 6.1 | 0 |