

Research publications

Books

1. D. Drikakis and W. Rider¹ *High-Resolution Methods for Incompressible and Low-Speed Flows*, Springer, 2005, 622 pages CFD textbook, (ISBN: 3-540-22136-0).
2. D. Drikakis and B. Geurts² (Eds) *Turbulent Flow Computation*, Kluwer Academic Publishers, 369 pages, 2002 (ISBN: 1-4020-0523-7).

Journal publications

1. C. Barmparousis, D. Drikakis, Multi-dimensional quantification of uncertainty and application to a turbulent mixing model, *Int. J. Numer. Meth. Fluids* 2017; 00:1–25 (in print).
2. K. Ritos, I. Kokkinakis, D. Drikakis, S. Spottswood, Implicit Large Eddy Simulation of Acoustic Loading in Supersonic Turbulent Boundary Layers, *Physics of Fluids*, 29, 046101, 2017.
3. M. Lappa, D. Drikakis, and I. Kokkinakis, On the propagation and multiple reflections of a blast wave travelling through a dusty gas in a closed box, *Physics of Fluids*, 29, 033301, 2017.
4. M. Papanikolalou, M. Frank, D. Drikakis, Effects of surface roughness on shear viscosity, *Physical Review E*, Vol. 95, 033108, 2017.
5. A. Antoniadis, P. Tsoutsanis, D. Drikakis, Assessment of high-order finite volume methods on unstructured meshes for RANS solutions of aeronautical configurations, *Computers and Fluids*, Volume 146, Pages 86-104, 2017.
6. M. Papanikolalou, M. Frank, D. Drikakis, Nanoflow over a fractal surface, *Physics of Fluids*, 28(8), 082001, 2016.
7. K. Deepak, M. Frank, D. Drikakis, and N. Asproulis, Thermal Properties of a Water-Copper Nanofluid in a Graphene Channel, *J. Comput. Theor. Nanosci.* 13, 79-83. 2016.
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9. I. Kokkinakis, D. Drikakis, D.L. Youngs, R.J.R. Williams, Two-equation and multi-fluid turbulence models for Rayleigh–Taylor mixing, *Int. Journal of Heat and Fluid Flow*, Volume 56, Pages 233-250, 2015
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11. D. Drikakis, M. Frank, Advances and challenges in computational research of micro and nano flows, *Microfluidics and Nanofluidics*, Volume 19, Issue 5, Pages 1019-1033, 2015
12. M. Frank, D. Drikakis, N. Asproulis, Thermal Conductivity of Nanofluid in Nanochannels, *Microfluidics and Nanofluidics*, Volume 19, Issue 5, Pages 1011-1017, 2015.
13. Tsoutsanis, I. Kokkinakis, L. Konozy, D. Drikakis, R.J.R. Williams, D.L. Youngs, Comparison of structured- and unstructured-grid, compressible and incompressible methods using the vortex pairing problem *Computer Methods in Applied Mechanics and Engineering*, Volume 293, 15 August 2015, Pages 207–231.
14. D. Drikakis, N. Asproulis, and D. Mantzalis, Carbon Dioxide Capture Using Multi-Walled Carbon Nanotubes, *J. Comput. Theor. Nanosci.* 12, 3981-3993, 2015.
15. I. Kokkinakis, D. Drikakis, Implicit Large Eddy Simulation of Weakly-Compressible Turbulent Channel Flow, *Computer Methods in Applied Mechanics and Engineering*, 287, 229–261, 2015.
16. D. Mantzalis, N. Asproulis, D. Drikakis, The effects of defects in CO₂ diffusion through Carbon Nanotubes, *Chemical Physics Letters*, 608, 244-248, 2014.
17. A. Artusi, Z. Sou, Z. Zhang, D. Drikakis and X. Lou " High-Order Wavelet Reconstruction for Multi-Scale Edge Aware Tone Mapping", *Computer & Graphics Journal*, Volume 45, Pages 51-63, December 2014.

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18. L. Könözsy, D. Drikakis, A Unified Fractional-Step, Artificial Compressibility and Pressure-Projection Formulation for Solving the Incompressible Navier-Stokes Equations, *Communications in Computational Physics*, Vol 16, 5, 1135-1180, 2014.
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