

Curriculum Vitae

Professor Dimitris Drikakis, PhD, FRAeS, CEng, SMAIAA

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PROFESSIONAL EXPERIENCE*		
2018 – to date	<ul style="list-style-type: none"> • Vice President of Global Partnerships • Executive Director, Research & Innovation • Professor, Medical Schools and Science & Engineering (cross-appointment) 	University of Nicosia, Cyprus
Other positions	<ul style="list-style-type: none"> • President, Institute for Advanced Modelling and Simulation • President, Defence and Security Research Institute • Senior Researcher at University of Nicosia Research Foundation 	
2015 - 2017	<ul style="list-style-type: none"> • Executive Dean of the Faculty of Engineering 	University of Strathclyde, UK
2017 - 2018	<ul style="list-style-type: none"> • Executive Director, Global University Partnerships (USA & Far East) 	
2015 - 2018	<ul style="list-style-type: none"> • Professor of Engineering Science 	
Other positions at the University of Strathclyde:		
2017 - 2018	<ul style="list-style-type: none"> • Executive Director, Strathclyde Space Institute 	
2016 - 2017	<ul style="list-style-type: none"> • Associate Principal 	
2003 - 2015	<ul style="list-style-type: none"> • Professor of Fluid Mechanics and Computational Science 	Cranfield University, UK
2005 – 2010, & 2013 - 2015	<ul style="list-style-type: none"> • Head, Aerospace Sciences Dept 	
2013 - 2015	<ul style="list-style-type: none"> • Director of Research (School of Aerospace, Transport & Manufacturing) 	
2012 - 2013	<ul style="list-style-type: none"> • Head, Department of Engineering Physics 	
2011 - 2012	Founding Director, Computation-based Science and Technology Research Centre	Cyprus Institute¹, Cyprus
2001 - 2003	<ul style="list-style-type: none"> • Professor of Fluid Mechanics 	Queen Mary, University of London, UK
1999 - 2001	<ul style="list-style-type: none"> • Reader in Computational Fluid Dynamics 	
1995 - 1999	Lecturer in Mechanical Engineering	University of Manchester², UK
1993 - 1995	<ul style="list-style-type: none"> • Team Leader, Computational Aerodynamics Group 	Friedrich–Alexander University of Erlangen-Nuremberg, Germany
1992 - 1993	<ul style="list-style-type: none"> • Research Scientist 	
1988 - 1991	<ul style="list-style-type: none"> • Research and Teaching Assistant 	National Technical University of Athens, Greece
*Information on Leadership and impact is provided on pages 3 to 8		

¹ In partnership with NCSA (National Centre for Supercomputing Applications) of the University of Illinois at Urbana-Champaign

² University of Manchester Institute of Science and Technology (UMIST), which since 2003 is *The University of Manchester*.

MAJOR AWARDS

- 2008 – 2011 and 2011 – 2014 **William Penney Fellowship** by the UK's Atomic Establishment in recognition of my contribution to compressible turbulent flows. The award is offered to world-renowned subject matter experts in scientific or engineering fields.
- 2014 The NEF's **Innovator of the Year Award** by the UK's Institute of Innovation and Knowledge Exchange for a new generation carbon capture nanotechnology that uses carbon nanotubes for filtering out carbon dioxide and other gases.
- 2014 **Technical Achievement Award** at the International Conference on Mathematical Problems in Engineering, Aerospace and Sciences.

EDUCATION

- 1982 – 1987 Diploma in Mechanical Engineering (Meng) National Technical University of Athens (NTUA), Greece
- 1988 – 1991 PhD in Computational Fluid Dynamics NTUA³

HONORARY & INVITED POSITIONS

- 2004 – Honorary Professor City University, London, UK
- 2003 Visiting Scholar Isaac Newton Institute for Mathematical Sciences, University of Cambridge
- 2003 Honorary Professor St Andrews Centre for Plastic Surgery and Burns Broomfield Hospital, UK
- 2000 - 2001 Visiting Professor University of Marseille, France

³ Scientific Collaboration with Deutsche Aerospace formerly Messerschmitt-Bölkow-Blohm.

HIGHLIGHTS OF RESEARCH & SCHOLARSHIP IMPACT

I have been active in both fundamental and applied research for over 30 years in advanced computational modelling of fluids, acoustics, fluid/solid interfaces, nanotechnology, and emerging technologies, particularly in machine learning. My work has been key to resolving significant issues across various applied science and engineering problems. Evidence of research impact and scholarship includes:

- According to a team of researchers at Stanford University, Dimitris Drikakis has been included on 100,000 top scientists **worldwide**, the **top 2% of scientists** in their field. The updated 2024 list is based on a range of citation metrics that provides standardized data across those fields and subfields containing more than 8,000,000 scientists worldwide: Ioannidis, John P.A. (2024), "August 2024 data-update for "Updated science-wide author databases of standardized citation indicators"", Elsevier Data Repository, V7, doi: 10.17632/btchxktzyw.7
- According to Research.com has been ranked in the **top 500 best scientists in Aerospace and Mechanical Engineering worldwide and the top scientist in this field in Cyprus.**
- The article by Dbouk, D. Drikakis, On coughing and airborne droplet transmission to humans *Phys. Fluids* 32, 053310 (2020) received one of the highest Altmetric Score of all American Institute of Physics publications. The above article has started changing policies and guidelines regarding social distancing in a few countries. About this article, there were stories from 282 news outlets worldwide. My Special Issue on the Flow and the Virus published in the *Physics of Fluids* journal exceeded 2 million downloads (May 2020 to date)
- I completed the supervision of **45 PhD students and** several MSc by Research students **and mentored 21 post-doctoral fellows.** All my former students now hold positions in academia and industries around the world.
- I published as a sole author, as well as jointly with my PhD students, post-doctoral researchers and industrial collaborators, **472 articles** (journal, conference papers, and book chapters), as well as two books; **h-index 52 (Scopus) & 58 (Google Scholar).**
- I attracted significant funding as a Principal Investigator or a Co-investigator from various sources, including EPSRC, European Union, Industry and Government. A list of past and current industrial collaborations is provided on page 10.
- I have been an **Associate Editor in five international journals** and a member of the **editorial board of another 20 journals.**

1. The University of Nicosia, Cyprus (October 2018 -)

1.1 Vice President of Global Partnerships

I have been responsible for

- Coordinating the University's relations and partnerships with major research funding agencies and other bodies – public and private – consistent with the mission and strategies of the University.
- Developing partnerships with industry and other academic institutions, which can also lead to joint research and degree programs and other initiatives.
- My role is to provide leadership in respect of global partnerships and international relations for the five university's schools: Science and Engineering, Medical School, Humanities, and the Law School.

1.2 Executive Director of Research and Innovation

I have been responsible for

- **Leading the University's Research and Innovation Office.** My main goals have been to ensure the implementation of the University's research strategy and increase the probability of research funding success by coordinating the establishment of appropriate infrastructure. The above includes systems, processes and staff recruitment to support the University's Faculty in research.
- **Guiding academic staff** in respect of the preparation of research proposals. I also coordinate the Virtual Reality research activities of the University.
- **The University Rankings:** A significant part of executive director role concerns leading the University's efforts to enter and maintain a respectable position in the various University rankings, particularly
 - Times Higher Education,
 - QS Emerging Europe and Central Asia (EECA), and
 - Times Higher Education Impact Rankings.

Under my responsibility, the university entered the THES Rankings for the first time and moved to the band of 501-600 within 3 years.

2. University of Strathclyde (2015 - 2018)

2.1 Executive Dean (Engineering)

I was responsible for providing strategic leadership of the Faculty of Engineering that comprised eight academic departments and five industrial-scale research centres with a budget of £103 million; 850 staff (academic, administrative and research); and more than 5,500 students. I was responsible for ensuring that the Faculty maintains and develops its national and international profile, as well as for the efficient and effective management of the Faculty's resources in the provision of teaching, research, knowledge exchange and internationalisation activities. As an Executive Dean, I was a member of the University Executive and, as such, a member of the senior management team responsible for the development of the University Strategy.

I was responsible for the following academic departments:

- Design, Manufacture and Engineering Management
- Electronic and Electrical Engineering
- Mechanical and Aerospace Engineering
- Architecture
- Biomedical Engineering
- Chemical and Process Engineering
- Civil and Environmental Engineering
- Naval Architecture, Ocean and Marine Engineering

and University's Industrial Research Centres:

- Advanced Forming Research Centre
- Power Networks Demonstration Centre
- Advanced Nuclear Research Centre
- Oil & Gas Institute, and
- Maritime and Safety Research Centre.

Key Responsibilities

- Provide the Faculty with clear academic leadership and strategic direction.
- Continue the growth of the Faculty's commercial and internationalisation activities with several universities and companies overseas in Europe, Asia-Pacific region, and the USA.
- Actively engage in external networks and public bodies, both national and international, to ensure the Faculty and the University are up-to-date and abreast with external opportunities and challenges and are in a position of significant influence in the sector.
- Continue to develop and raise the Faculty's and the University's national and international profile within academic, policy-making and industrial fora, with charities, trusts and foundations and with high-profile individuals.
- Oversee the further development of research and knowledge exchange activity in the Faculty.
- Lead on a cohesive and ambitious vision for the Faculty, which is aligned with the University's broader strategic vision, mission and values.
- Ensure the effective and efficient management of the Faculty's resources and finances to ensure the enhancement of the quality of the Faculty's teaching and learning, research and knowledge exchange.
- Participate effectively as a member of the senior management of the University and lead on specific university-wide projects as requested by the Vice Chancellor.

- Fully engage with staff and students of the Faculty through effective communication mechanisms.
- Provide an academic environment in which student learning can thrive, and the quality of the student experience can be enhanced.
- Represent the University's Values across the Faculty and university-wide to lead, develop and motivate Heads of Department and all Faculty staff.
- Through regular university-wide interaction, to actively identify and nurture academic and research talent internally retain it, and externally to attract it to the University.
- Control Faculty budgets and work closely with both the Chief Operating Officer and Chief Financial Officer to ensure that the Faculty planning processes and resources (financial, staffing, physical and IT infrastructure) are aligned with strategic objectives.
- Ensure that the teaching and professional activities of the areas of the Faculty are professionally met and in line with the internal and external quality assessment framework.
- Ensure compliance with the University's policies and procedures including Health and Safety at Work regulations, Equality and Diversity, Data Protection and other managerial responsibilities towards all staff and students.

2.2 Associate Principal

I was responsible for a University-wide portfolio aiming to support the growth and sustainability of the University across the four Faculties: Science, Engineering, Business, Humanities & Social Sciences, with specific objectives: i) to deliver tangible improvements in the University's financial performance, through international student recruitment and research income growth; and ii) create sufficient headroom for strategic investment over the medium to long term.

Other roles in Strathclyde (2017 – 2018)

2.3 Executive Director of Global University Partnerships (the USA and the Far East)

As an Executive Director of Global University Partnerships, I was responsible for the strategic university partnerships with major universities in the USA and the Far East. The portfolio included Stanford University, New York University, Caltech, Hong Kong University of Science and Technology, MIT, and Nanyang Technological University (Singapore). My role was to maintain and further develop Strathclyde's international profile through the above partnerships while providing support to the academics involved to build grant-winning, joint publications, and collaborative activities and events.

2.4 Executive Director of the Strathclyde Space Institute

The Strathclyde Space Institute (SSI) was a pan-university institute, involving the Engineering, Science, Humanities and the Business Faculties, aiming to deploy practical solutions, over a wide range of Technology Readiness Levels. I was responsible for coordinating the development of space science and engineering at Strathclyde and support the growth of the space sector in Scotland and the UK. The overall aim was to expand on long term strategic areas of research that require a cross-disciplinary approach bridging the gaps between science, engineering and societal changes.

2.5 Co- Director of the Robotics and Autonomous Systems Institute

My role as a Co-Director of the newly established Robotics and Autonomous Systems Institute was to provide an overall structure and strategic leadership through alignment of the Strathclyde University activities in the above sector. Furthermore, I offered a framework for teaching and training activities; promoted more efficient use of resources; maximised our national and international visibility in Robotics and Autonomous Systems. I was also

responsible for the engagement with our industry partners and funding bodies and promoted internal collaborative research leading to increased volume and quality of research outputs.

3. Cranfield University (2003 - 2015)

3.1 Head of Academic Departments (Aerospace, Engineering Physics)

My role was to provide strategic leadership in all the academic activities of the Department and manage staff and financial resources. I aimed to foster excellence in teaching and research; establish new educational programmes of study and research facilities. I represented and promoted the Department and Cranfield University externally, as well as facilitated the development of collaboration strategies and partnerships with industry and academia worldwide. Furthermore, I contributed to the management and development of the School as a member of the School's Executive and the University's Senior Management Team.

3.2 Director of Research (School of Aerospace Transport & Manufacturing)

My role was to provide input to the Research Strategy of the University. I was responsible for the leadership and management of the School's (Aerospace, Transport & Manufacturing) Research and Innovation. The School had an annual turnover of £45 million and a research budget of £17 million. My tasks included the provision of recommendations for regulations for the academic and administrative processes for the management of all research students of the School; coordination of the School's external research peer review exercises (for REF); coordination of the School's research initiatives (EPSRC and other national funding initiatives). I was also responsible for the activities of the Doctoral Training Centres, and I enhanced the quality of the research supervision and assessment, as well as disseminating best practices for ensuring an excellent research environment. I was a member of the School's Executive Management Team, the University's Senior Management Team and the University's Research Committee.

BOARDS, MAJOR COMMITTEES, DIRECTORSHIPS

2021	Awards Committee MDPI	MDPI Publisher
2021	Cyprus Construction Awards	
2013-2019	European Research Council	Deputy Chair (Engineering), Expert Panel
2020 - 2019-2022	Member of the Council, University of Nicosia International Academic and Industrial Advisory Council of the Cyprus Marine and Maritime Institute	Member of the Council
2019	European Development Program (Ministry of Citizen Protection, Greece)	Advisory Board
2018 - 2016-2018	Institute for the Future, Cyprus UK Oil & Gas Technology Centre	Board of Directors Academic Advisory Board
2004-2018	Osborne Reynolds Awards	Scientific Committee Member
2005-2015	AWE-Cranfield	Board of Management
2013-2016	European Aeronautics Science Network	Board of Directors & Scientific Advisor
2012-2017	European Commission	Expert Evaluator and Panel Member
2018 2015	European Science Foundation National Nuclear Security Administration, Department of Energy, USA	College of Expert Reviewers Expert Evaluator
2010-2013	American Institute of Aeronautics and Astronautics	Fluid Dynamics Technical Committee
2004- 2015-2018	Engineering and Physical Sciences Research Council Specialist Gas Separation Ltd	Peer-Review College Director

Membership on International Conference Committees is presented in Annex I.

FELLOWSHIPS, MEMBERSHIPS AND PROFESSIONAL SOCIETIES

Fellow	Royal Aeronautical Society (RAeS)
Fellow	Institute of Nanotechnology (IoN) (2004-2015)
Senior Life Member	American Institute of Aeronautics and Astronautics (AIAA)
Life Member	American Physical Society
Member	American Society for Mechanical Engineers
Member	American Nano Society
Chartered Engineer	Engineering Council, UK
Business Fellow	London Technology Network (2000-2003)

SELECTIVE (PAST & PRESENT) COLLABORATIONS WITH INDUSTRY AND MAJOR FUNDING BODIES⁴

- BAE Systems (UK)
- Atomic Weapons Establishment (UK)
- EPSRC
- Oil & Gas Institute, UK
- European Space Agency
- GKN AgustaWestland
- UK Atomic Energy Authority (UKAEA)
- MBDA
- Lockheed Martin
- Chemring Defence
- Airbus Defence and Space
- Jaguar Land Rover
- US Air Force (USAF)
- Commercial Aircraft Corporation of China
- German Aerospace Agency (DLR)
- Aircraft Research Association (UK)
- NASA Ames
- Tendeka (Swellfix Ltd)
- Los Alamos National Lab
- Altus-LSA Commercial and Manufacturing SA
- ITER (France)
- Reaction Engines
- SAFRAN Turbomeca
- Redring Xpelair Group
- MagnaParva Ltd
- UK Ministry of Defence
- European Union (H2020)
- Los Alamos National Lab
- BHR Ltd
- QualityPark AviationCenter GmbH
- TEKEVER Group
- Xchanging Solutions
- Eaton Aerospace
- Intracom Defence
- Research Promotion Foundation (Cyprus)
- Intrasfot International
- Grant Thornton Ltd
- Aditess – Advanced Integrated Technology Solutions and Services Ltd

and several other companies and organisations through EU (H2020) projects

EVALUATOR, FUNDING BODIES

- Engineering and Physical Sciences Research Council (UK)
- European Commission (EU, FP7 & H2020)
- European Research Council
- Finnish Academy of Science
- Fund for Scientific Research (Belgium)
- Natural Sciences & Engineering Research Council (Canada)
- National Research Fund (Qatar)
- National Council for R&D, Romania
- Leverhulme (UK)
- Nuffield Foundation (UK)
- Russian Science Foundation
- Department of Energy, Office of Science, USA
- La Caixa Foundation, Spain

⁴ Collaborations in my capacity as University Professor.

EDITORSHIPS

The Aeronautical Journal	Associate Editor	Royal Aeronautical Society
Computers and Fluids	Associate Editor	Elsevier
Journal of Fluids Engineering	Associate Editor (2004-2014)	American Society for Mechanical Engineers
Journal of Computational and Theoretical Nanoscience	Associate Editor	American Scientific Publishers
Nanotechnology Reviews	Associate Editor (2012-2013)	De Gruyter
Encyclopedia of Aerospace Engineering	Associate Editor	Wiley

EDITORIAL BOARDS

- Physics of Fluids (Advisory Board), American Institute of Physics.
- *Nature Scientific Reports*
- International Journal for Numerical Methods in Fluids
- Energies
- Computation
- Journal of Nanotechnology
- Research Letters in Nanotechnology
- Journal of Nanotechnology: Nanomedicine & Nanobiotechnology
- International Journal of Applied Engineering Research
- Mathematics Applied in Science and Technology
- Research in Applied Mathematics
- Journal of Astrophysics & Aerospace Technology
- International Journal of Mechatronics and Automotive Research (IJMAR)
- Simulation and Additive Manufacturing,
- Journal of Nuclear Medicine & Radiation Therapy
- American Research Journal of Nanotechnology,
- Advance in Environmental Waste Management & Recycling,
- Thermal Science and Engineering
- Inventions - Section 'Inventions and innovation in Energy and Thermal/Fluidic Science', International Journal of Aeronautics
- Journal *Sci.*
- FELIP International Journal on Engineering Analysis

NATIONAL AND INTERNATIONAL THINK TANKS/ASSOCIATIONS/CONSORTIA

2009 - 2013	EPSRC - Bridging Applied Nano-Technologists	UK
2009 - 2018	UK Turbulence Consortium	UK
2009	Government Think Tank of Fluid Dynamics in Performance Sport	UK
2006 - 2010	Management Committee, European Co-operation in the Field of Scientific and Technical Research in HPC and Large Eddy Simulation Methods for Advanced Industrial Design	EU
2005 - 2008	National Physical Laboratory (NPL) Steering Panel on Dynamic Measurements	UK
1995 - 1999	Joint co-ordination with Prof Brian Launder of the European Research Community on Flows, Turbulence and Combustion (ERCOFTAC) Association, UK-North Pilot Centre	UK

PhD STUDENTS (completion date in brackets)

M. Guillemette (active)	A. Mihaiescu (2013)	E. Quaranta (2011)	S. Loiodice (2009)
D. Yiannakides (active)	T. Oggian (2013)	C. Papachristou (2011)	A. Mosedale (2009)
R. Kamenicky (2022)	A. Antoniadis (2013)	Y. Shimada (2011)	Z. Zachariadis (2009)
K. Singh (2022)	A.Baranda Inok (2012)	C. Vamvakoulas (2011)	M. Hahn (2008)
M.Papanikolaou (2017)	B. Obadia (2012)	S. Tissera (2011)	M. Kalweit (2008)
C. Barmparousis (2015)	Z. Rana (2012)	N. Asproulis (2010)	S. Patel (2008)
M. Frank (2015)	D. Sourmaidou (2012)	Z. Malick (2010)	B. Thornber (2008)
J. Appleyard (2014)	P. Barton (2011)	N. Epiphaniou (2010)	P. Neofitou (2001)
M.Probyn (2014)	M. Benke (2011)	M. Porton (2010)	A. Bagabir (2000)
I. Zissimos (2014)	M. Lai (2011)	P. Tsoutsanis (2010)	A. Kani (2000)
M.Kio (2014)	A. Milonas (2011)	I. Kokkinakis (2009)	G. Barakos (1999)
K. Karantonis (2013)	J. Milnes (2011)	J. Lechuga (2009)	
L. Konozy (2013)			
D.Mantzalis (2013)			

TEACHING & LEARNING

- I am an experienced lecturer (35 years of experience) and have prepared and delivered a number of different courses to Aerospace and Mechanical Engineering students both at undergraduate (BEng and MEng) and postgraduate (Master) levels at the University of Manchester, Queen Mary, University of London, Cranfield University, University of Erlangen-Nuremberg, Germany, and the University of Nicosia, Cyprus.
- Due to the multi-disciplinary character of my research, I can teach a wide range of courses. I have offered courses covering the whole spectrum from introductory to research levels. In almost all of my classes, I have prepared teaching material that became available to the students. The most defining characteristic of my teaching style is the direct and informal interactions that I have with my students, as well as linking the taught material to engineering applications. I have known many of my students personally, and I frequently advised them in the context of their career choices. In all of my classes, I have always received excellent student feedback.
- Furthermore, I have extensive experience in establishing new Master programs. At Cranfield University, I founded the MSc in Computational Fluid Dynamics and the MSc in Autonomous Vehicles Dynamics and Control, which attracted several international students. These MSc Courses also attracted keen industrial interest, which led to sponsored studentships and employment opportunities for graduates.

University of Nicosia

- Spring semester: Fluid Mechanics (undergraduate)
- Medical Physics (undergraduate)

University of Strathclyde

- Initiated the establishment of a new MSc in Autonomous Systems and Robotics
- Co-director of the Biofluid Mechanics MSc

Cranfield University

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> ▪ Advanced and Classical Turbulence Modelling ▪ Fluid Mechanics and Heat Transfer ▪ MSc Aerospace Group projects | <ul style="list-style-type: none"> ▪ CFD for Aerospace Applications ▪ Micro/Nano Flows ▪ CFD for Automotive Flows |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

Other related duties:

1) Founded the following new MSc Programmes in

- Computational Fluid Dynamics (also acted as a Director and co-director)
- Autonomous Vehicles Dynamics and Control

2) Director of Cranfield Aerospace Doctoral Training Centre (2008-2010).

- | | |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <ul style="list-style-type: none"> ▪ Computational Fluid Dynamics | <ul style="list-style-type: none"> ▪ Advanced Aerodynamics |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------|

Queen Mary, University of London	▪ Stability and Control of Aircraft	
University of Manchester (UMIST)	▪ Computational Fluid Dynamics ▪ Fluid Mechanics ▪ Heat Transfer	▪ Thermodynamics ▪ Engineering Design
University of Erlangen-Nuremberg	▪ Computational Fluid Dynamics ▪ Heat Transfer	▪ Fluid Mechanics ▪ Parallel Computing
Short Courses	<ul style="list-style-type: none"> ▪ Introduction to Godunov Methods, Oxford. ▪ Heat Transfer and Fluid Flow Studies using Parallel Computing, Delft Univ. ▪ 7th and 8th Biennial Colloquia on CFD, UMIST ▪ Turbulence: Principles, Models, and Numerical Methods, University of Erlangen-Nuremberg ▪ NUMET'94 Numerical methods for the Computation of Flows and Heat Transfer Problems, University of Erlangen-Nuremberg. ▪ Efficient Flow Simulations through New Numerical Methods and Parallel Computing, University of Erlangen-Nuremberg 	
(Selective) Industrial short courses	<ul style="list-style-type: none"> ▪ Jaguar Land Rover: Fluid Mechanics and Computational Fluid Dynamics ▪ COMAC (China): Aerodynamics, Computational Fluid Dynamics ▪ MWH Global Inc: CFD for Industry an Executive Overview ▪ Large Eddy Simulation Short Course for Industry, jointly with F. Grinstein (Los Alamos National Lab) and N. Georgiadis (NASA Glenn) 	
External Examiner	<ul style="list-style-type: none"> ▪ External Examiner of Master of Science Programmes at Imperial College (2006-2010), University of Southampton (2006-2010), University of Manchester (2014 - 2018), Brunel University (2012 – 2016) and PhD examiner in several universities in the UK 	

Research publications
(Scopus Author ID: 56273846200)

- *h-index*: 58 (Google Scholar), 52 (Scopus)
- *i10-index*: 182 (Google scholar)

Books

1. D. Drikakis and W. Rider⁵ *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. Geurts⁶ (Eds) *Turbulent Flow Computation*, Kluwer Academic Publishers, 369 pages, 2002 (ISBN: 1-4020-0523-7).

Journal publications (Peer-reviewed)

1. Sofos, F., Drikakis, D. and Kokkinakis, I.W., 2024. Comparison of super-resolution deep learning models for flow imaging. *Computers & Fluids*, 283, p.106396.
2. Sachhin SM, Mahabaleshwar US, Laroze D, Drikakis D. Correction: Sachhin et al. Darcy–Brinkman Model for Ternary Dusty Nanofluid Flow across Stretching/Shrinking Surface with Suction/Injection. *Fluids* 2024, 9, 94. *Fluids*. 2024; 9(10):241
3. Christakis, N. and Drikakis, D., 2024. On particle dispersion statistics using unsupervised learning and Gaussian mixture models. *Physics of Fluids*, 36(9).
4. Triantafyllou, G., Sovatzidi, G., Dimas, G., Kalozoumis, P.G., Drikakis, D., Kokkinakis, I.W., Markakis, I.A., Golna, C. and Iakovidis, D., 2024. Sensor-Based Fuzzy Inference of COVID-19 Transmission Risk in Cruise Ships. *Studies in health technology and informatics*, 316, pp.1817-1821.
5. Drikakis, D., Kokkinakis, I.W., Tirchas, P. Sparsity and mixing effects in deep learning predictions of temperature and humidity. *Physics of Fluids* 1 August 2024; 36
6. Kokkinakis, I.W., Drikakis, D., Michael Spottswood, S., Brouwer, K.R. and Riley, Z.B., 2024. Aeroacoustic loading of impinging supersonic boundary-layer interaction on statically deformed surfaces. *AIAA Journal*, pp.1-18.
7. Sofos, F., Drikakis, D. and Kokkinakis, I.W., 2024. Ultra-scaled deep learning temperature reconstruction in turbulent airflow ventilation. *Physics of Fluids*, 36(6).
8. Sofos, F., Drikakis, D., Kokkinakis, I.W., Deep learning architecture for sparse and noisy turbulent flow data. *Physics of Fluids*, 2024, 36(3), 035155.
9. Drikakis, D., Kokkinakis, I.W., Fung, D. and Spottswood, S.M., 2024. Self-supervised transformers for turbulent flow time series. *Physics of Fluids*, 36(6).
10. Sachhin, S.M., Mahabaleshwar, U.S., Laroze, D., Drikakis, D. Darcy–Brinkman Model for Ternary Dusty Nanofluid Flow across Stretching/Shrinking Surface with Suction/Injection, *Fluids*, 2024, 9(4), 94.
11. Christakis N, Evangelou I, Drikakis D, Kossioris G. A Computational Methodology for Assessing Wind Potential. *Energies*. 2024; 17(6):1385. <https://doi.org/10.3390/en17061385>
12. Sofos, F., Drikakis, D., Kokkinakis, I.W., and Spottswood S.M. A deep learning super-resolution model for turbulent image upscaling and its application to shock wave–boundary layer interaction, *Physics of Fluids* 36, 025117 (2024)
13. Dimitris Drikakis, Ioannis William Kokkinakis, Panagiotis Tirchas, S. Michael Spottswood, Physical consistency and invariance in machine learning of turbulent signals, *Physics of Fluids* 36, 016130 (2024).

⁵Los Alamos National Laboratory (now at Sandia Labs), USA.

⁶University of Twente, The Netherlands.

14. Dimitris Drikakis, Ioannis William Kokkinakis, Daryl Fung, S. Michael Spottswood, Generalizability of transformer-based deep learning for multidimensional turbulent flow data, *Physics of Fluids*, 36, 026102 (2024).
15. Nicholas Christakis, Dimitris Drikakis, Konstantinos Ritos, Ioannis W. Kokkinakis, Unsupervised machine learning of virus dispersion indoors, *Physics of Fluids* 36, 013320 (2024).
16. Konstantinos Ritos, Dimitris Drikakis, Ioannis William Kokkinakis, The effects of ventilation conditions on mitigating airborne virus transmission, *Physics of Fluids* 36, 013322 (2024).
17. Lebental, B., West, K., Vainer, O., Hoffman, M., Hadjiefthimiadis, S., Andreou, B., Bonazountas, M., Palaiokosta, I., Papadakis, A., Grigoropoulos, N. and Ntemou, A., 2024. Scenarios for Sensors and Actuators Deployment to Prevent and Mitigate Epidemics on Cruise Ships. In *The Blue Book: Smart sustainable coastal cities and blue growth strategies for marine and maritime environments* (pp. 171-195). Cham: Springer International Publishing.
18. Poulinakis, K.; Drikakis, D.; Kokkinakis, I.W.; Spottswood, S.M.; Dbouk, T. LSTM Reconstruction of Turbulent Pressure Fluctuation Signals. *Computation* 2024, 12, 4. <https://doi.org/10.3390/computation12010004>
19. Sofos, F., Drikakis, D., Kokkinakis, I.W., and Spottswood S.M., Convolutional neural networks for compressible turbulent flow reconstruction", *Physics of Fluids*, 35, 116120 (2023).
20. Ritos, K., Drikakis, D., & Kokkinakis, I. W. (2023). Virus spreading in cruiser cabin. *Physics of Fluids* 35, 103329 (2023).
21. Kokkinakis, I. W., Drikakis, D., Spottswood, S. M., Brouwer, K. R., & Riley, Z. B. (2023). High-speed shock–boundary-layer interaction over deformed surfaces. *Physics of Fluids*, 35(10).
22. Drikakis, D.; Sofos, F. Can Artificial Intelligence Accelerate Fluid Mechanics Research? *Fluids* **2023**, 8, 212. <https://doi.org/10.3390/fluids8070212>
23. Christakis, N.; Drikakis, D. Reducing Uncertainty and Increasing Confidence in Unsupervised Learning. *Mathematics* **2023**, 11, 3063. <https://doi.org/10.3390/math11143063>
24. Christakis, N.; Drikakis, D. Unsupervised Learning of Particles Dispersion. *Mathematics* **2023**, 11, 3637. <https://doi.org/10.3390/math11173637>
25. Ali, Samer, Talib Dbouk, Mahmoud Khaled, Jalal Faraj, and Dimitris Drikakis. "Morphing optimization of flow and heat transfer in concentric tube heat exchangers." *Physics of Fluids* 35, no. 9 (2023).
26. T. Dbouk, F. Roger, D. Drikakis, S. Ali, H. Menu, E. Wiel, The impact of endotracheal intubation on oxygen delivery, trachea pressure and wall deformation, *Computers in Biology and Medicine*, Volume 164, 2023, 107325, <https://doi.org/10.1016/j.combiomed.2023.107325>.
27. Konstantinos Poulinakis, Dimitris Drikakis, Ioannis William Kokkinakis, S. Michael Spottswood; Deep learning reconstruction of pressure fluctuations in supersonic shock–boundary layer interaction. *Physics of Fluids* 1 July 2023; 35 (7): 076117.
28. Kokkinakis, I. W., Khujadze, G., Drikakis, D., & Spottswood, S. M. (2023). Wavelet analysis of supersonic shock-boundary-layer interaction. *Physics of Fluids*, 35(6).
29. I.W Kokkinakis, D. Drikakis, Internal explosions and their effects on humans, *Physics of Fluids*, 2023, 35(4), 046101.
30. Ali, S., Dbouk, T., Wang, G., Wang, D., Drikakis, D., Advancing thermal performance through vortex generators morphing, *Nature Sci Rep*, 2023, 13(1), 368.
31. Kokkinakis, I.W., Drikakis, D. Nuclear explosion impact on humans indoors, *Physics of Fluids*, 2023, 35(1), 016114.
32. Poulinakis, K.; Drikakis, D.; Kokkinakis, I.W.; Spottswood, S.M. Machine-Learning Methods on Noisy and Sparse Data. *Mathematics* 2023, 11, 236. <https://doi.org/10.3390/math11010236>

33. Drikakis, D., Dbouk, T., The Role of Computational Science in Wind and Solar Energy: A Critical Review, *Energies*, 2022, 15(24), 9609
34. T. Dbouk, T., N. Visez, S. Ali, I. Shahrour, D. Drikakis Risk assessment of pollen allergy in urban environments. *Nature Sci Rep* 12, 21076 (2022).
35. T. Dbouk, D. Drikakis, Flow and acoustics of unmanned vehicles, *Physics of Fluids* 34, 100402 (2022) <https://doi.org/10.1063/5.0129577>
36. Antoniadis, A.F., Drikakis, D., Farmakis, P.S., Titarev, V., Tsoutsanis, P., UCNS3D: An open-source high-order finite-volume unstructured CFD solver, *Computer Physics Communications*, 2022, 279, 108453.
37. Dbouk, T., Habchi, C., Harion, J.L., Drikakis, D., Heat transfer and mixing enhancement by Poiseuille-Taylor-Couette flow between two rotating elliptically-deformed annular tubes. *International Journal of Heat and Fluid Flow*, 2022, 96, 109011.
38. Dbouk, T., Drikakis, D., Natural Ventilation and Aerosol Particles Dispersion Indoors, *Energies*, 2022, 15(14), 5101.
39. Kamenicky, R., Frank, M., Drikakis, D., Ritos, K., Film Boiling Conjugate Heat Transfer during Immersion Quenching. *Energies*, 2022, 15(12), 4258
40. I.W. Kokkinakis, D. Drikakis, "Atmospheric pollution from rockets", *Physics of Fluids*, 2022, 34(5), 056107, 2022.
41. G. Khujadze, D. Drikakis, K. Ritos, I. Kokkinakis, S.M. Spottswood, "Wavelet Analysis of High-Speed Transition and Turbulence over a Flat Surface", *Physics of Fluids*, 2022, 34(4), 046107.
42. T. Dbouk, D. Drikakis, "Computational aeroacoustics of quadcopter drones", *Applied Acoustics* 192 (2022) 108738.
43. T. Dbouk, D. Drikakis, The computational fluid dynamics-based epidemic model and the pandemic scenarios, *Phys. Fluids* 34, 027104 (2022).
44. M. Li, S. Smart, Y. Li, A. Ayoub, D. Drikakis and X-T Yan. An Investigation of Haptic Modelling for Oral and Maxillofacial Surgical Training and Planning, *Journal of Robotics and Automation*, Vol. 5 (1), 227-245, 2021.
45. Dbouk T, Aranda-García S, Barcala-Furelos R, Rodríguez-Núñez A, Drikakis D. Airborne infection risk during open-air cardiopulmonary resuscitation. *Emerg Med J*. 2021 Sep;38(9):673-678. doi: 10.1136/emmermed-2021-211209.
46. T. Dbouk, D. Drikakis, Quadcopter Drones Swarm Aeroacoustics, *Physics of Fluids*, 33, 057112, 2021.
47. T. Dbouk, D. Drikakis, On Pollen and Airborne Virus Transmission, *Physics of Fluids*, 33, 063313 2021.
48. K. Karantonis, I.W. Kokkinakis, B. Thornber, and D. Drikakis, "Compressibility in suddenly expanded subsonic flows", *Phys. Fluids* 33, 105106 (2021).
49. T. Dbouk, D. Drikakis, Correcting pandemic data analysis through environmental fluid dynamics, *Physics of Fluids*, 33, 0671162021, 2021.
50. Dbouk, T., Roger, F., Drikakis, D., Reducing indoor virus transmission using air purifiers, *Physics of Fluids*, 2021, 33(10), 103301
51. Walldén, M., Okita, M., Ino, F., Drikakis, D., Kokkinakis, I. Accelerating in-transit co-processing for scientific simulations using region-based data-driven analysis, *Algorithms*, 14(5), 154, 2021.
52. Dbouk, T., Drikakis, D., Endotracheal tubes design: The role of tube bending, *Symmetry*, 13(8), 1503, 2021.
53. Dimitris Drikakis, Konstantinos Ritos, Stephen Spottswood, and Zachary Riley, "Flow Transition to Turbulence and induced Acoustics at Mach 6", *Physics of Fluids*, 33, 076112, 2021.
54. M.G. Probyn, R.J.R. Williams, B. Thornber, D. Drikakis, D.L. Youngs, 2D single-mode Richtmyer–Meshkov instability, *Physica D* 418 (2021) 132827.
55. V. Charissis, J. Falah, R. Lagoo, S. F. M. Alfalah, S. Khan, S. Wang, S. Altarteer, K. B. Larbi, D. Drikakis, Employing Emerging Technologies to Develop and Evaluate In-

- Vehicle Intelligent Systems for Driver Support: Infotainment AR HUD Case Study, *Appl. Sci.*, 11(4), 1397, 2021.
56. T. Dbouk, D. Drikakis, Fluid Dynamics and Epidemiology: Seasonality and Transmission Dynamics, *Physics of Fluids*, 33, 021901, 2021.
 57. Bram-Larbi K.F. Charissis V. Khan S., Lagoo R., Drikakis D. Harrison D.K. AR Guidance System for Traffic Circumvention and Collision Avoidance: Emergency Services Case Study, Digest of Technical Papers - IEEE International Conference on Consumer Electronics Open Access Volume 2021-January10 January 2021 Article number 94277082021 IEEE
 58. T. Dbouk, D. Drikakis, On Airborne Virus Transmission in Elevators and Confined Spaces, *Physics of Fluids*, 33, 011905, 2021.
 59. Abuhammad A., Falah J., Alfalah S.F.M., Abu-Tarboush M., Tarawneh R.T., Drikakis D., Charissis V. "MedChemVR": A Virtual Reality Game to Enhance Medicinal Chemistry Education (2021) Multimodal Technologies and Interaction, 5 (3), art. no. 10.
 60. T. Dbouk, D. Drikakis, Weather impact on airborne coronavirus survival, *Physics of Fluids*, 32, 093312, 2020
 61. I. Kokkinakis, D. Drikakis, D. Youngs, Two-equation and multi-fluid turbulence models for Richtmyer-Meshkov mixing, *Physics of Fluids*, 32(7),074102, 2020.
 62. I. Kokkinakis, D. Drikakis, K. Ritos, and S. Michael Spottswood, Direct numerical simulation of supersonic flow and acoustics over a compression ramp, *Physics of Fluids*, 32(6),066107, 2020.
 63. T. Dbouk, D. Drikakis, On Respiratory Droplets and Face Masks, *Physics of Fluids* 32, 063303 (2020)
 64. T. Dbouk, D. Drikakis, On coughing and airborne droplet transmission to humans *Physics of Fluids* 32, 053310 (2020).
 65. M. Frank, D. Drikakis, and V. Charissis, Machine-Learning Methods for Computational Science and Engineering, *Computation*, 8, 15, 2020.
 66. K. Ritos, D. Drikakis, I. Kokkinakis, and S. Michael Spottswood, Computational aeroacoustics beneath high speed transitional and turbulent boundary layers, *Computers and Fluids* 203 (2020) 104520.
 67. Ioannis W. Kokkinakis, Dimitris Drikakis, David L. Youngs, Vortex morphology in Richtmyer–Meshkov-induced turbulent mixing, *Physica D*, 407 (2020) 132459.
 68. M. Frank, M. Papanikolaou, D. Drikakis, K. Salonitis, Heat Transfer across a fractal surface, *Journal of Chemical Physics*, 151, 134705, 2019.
 69. I. Kokkinakis, D. Drikakis, D. Youngs, Modeling of Rayleigh–Taylor mixing using single-fluid models, *Physical Review E*, 99, 013104, 2019.
 70. D. Drikakis, M. Frank, G. Tabor, Multiscale computational fluid dynamics, *Energies*, 12(17), 3272, 2019.
 71. M. Frank, R. Kamenicky, D. Drikakis, L. Thomas, H. Ledin, T. Wood, Multiphase flow effects in a horizontal oil and gas separator, *Energies*, Volume 12, Issue 11, 3 June 2019.
 72. Petropoulou, A., Drikakis, D., Riziotis, C, Microspheres formation in a glass-metal hybrid fiber system: Application in optical microwires, *Materials*, Volume 12, Issue 12, 1 June 2019.
 73. K. Ritos, D. Drikakis, I. Kokkinakis, Wall-pressure spectra models for supersonic and hypersonic turbulent boundary layers, *Journal of Sound and Vibration*, 443, 90–108, 2019.
 74. K. Ritos, D. Drikakis, I. Kokkinakis, Acoustic loading beneath hypersonic transitional and turbulent boundary layers, *Journal of Sound and Vibration*, 441, 50-62, 2019.
 75. M. Zhang, D. Drikakis, Lei Li, X. Yan, Machine-Learning Prediction of Underwater Shock Loading on Structure, *Computation*, 7, 58, 2019.
 76. S. Liodice, D. Drikakis, A. Kokkalis, Emission Surfaces and Noise Prediction from Rotating Sources, *Journal of Sound and Vibration*, 429, Pages 245-264, 2018
 77. K. Ritos, I. Kokkinakis, D. Drikakis, Physical insight into the accuracy of finely resolved iLES in turbulent boundary layers, *Computers and Fluids*, Volume 169, Pages 309-316, 2018.

78. K. Ritos, I. Kokkinakis, D. Drikakis, Performance of High-Order Implicit Large Eddy Simulations, *Computers and Fluids*, Volume 173, Pages 307-312, 2018.
79. M. Frank, M. Kio, D. Drikakis, L. Könözy, N. Asproulis, Mass and stiffness effects on thermal resistance at the solid-liquid interface of nanofluidic channels, *Journal of Computational and Theoretical Nanoscience*, 15(1), pp. 141-146, 2018.
80. S. Loiodice, D. Drikakis, A. Kokkalis, An efficient algorithm for the retarded time equation for noise from rotating sources, *Journal of Sound and Vibration*, 412, 336–348, 2018.
81. M. Frank, D. Drikakis, "Draining water from aircraft fuel using Nitrogen Enriched Air, *Energies*, 11, 908, 2018.
82. M. Frank, D. Drikakis, Thermodynamics at solid-liquid interfaces," *Entropy*, 20, 362, 2018.
83. M. Frank, D. Drikakis, Solid-like heat transfer in confined liquids, *Microfluidics and Nanofluidics*, 21, 9, 6 p., 148, 2017.
84. C. Barmparousis, D. Drikakis, Multi-dimensional quantification of uncertainty and application to a turbulent mixing model, *Int. J. Numer. Meth. Fluids*, 85:385–403, 2017.
85. 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.
86. 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.
87. M. Papanikolalou, M. Frank, D. Drikakis, Effects of surface roughness on shear viscosity, *Physical Review E*, Vol. 95, 033108, 2017.
88. 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.
89. M. Papanikolalou, M. Frank, D. Drikakis, Nanoflow over a fractal surface, *Physics of Fluids*, 28(8), 082001, 2016.
90. K. Deepak, M. Frank, D. Drikakis, and N. Asproulis, Thermal Properties of a Water-Copper Nanofluid in a Graphene Channel, *Journal of Computational and Theoretical Nanoscience*, 13, 79-83. 2016.
91. D. Drikakis, D. Kwak, C. Kiris, Computational Aerodynamics: Advances and Challenges, *The Aeronautical Journal*, 120, 1223, pp 13-36, 2016.
92. 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.
93. T. Oggian, D. Drikakis, D. Youngs, R. Williams, Computing multi-mode shock-induced compressible turbulent mixing at late times, *Journal of Fluid Mechanics*, Volume 779, 2015, Pages 411-431
94. 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.
95. M. Frank, D. Drikakis, N. Asproulis, Thermal Conductivity of Nanofluid in Nanochannels, *Microfluidics and Nanofluidics*, Volume 19, Issue 5, Pages 1011-1017, 2015.
96. 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.
97. D. Drikakis, N. Asproulis, and D. Mantzalis, Carbon Dioxide Capture Using Multi-Walled Carbon Nanotubes, *J. Comput. Theor. Nanosci.* 12, 3981-3993, 2015.
98. 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
99. D. Mantzalis, N. Asproulis, D. Drikakis, The effects of defects in CO₂ diffusion through Carbon Nanotubes, *Chemical Physics Letters*, 608, 244-248, 2014
100. 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
101. 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
 102. N. Asproulis, D. Drikakis, Parallel HPC Implementation of Boundary Conditions in Hybrid Molecular/Computational Fluid Dynamics Methods, *Journal of Algorithms and Computational Technology*, Vol. 8, No. 4, 357-368, 2014.
 103. T. Oggian, D. Drikakis, D. Youngs, R. Williams, A hybrid compressible-incompressible CFD method for Richtmyer-Meshkov mixing, *ASME J. Fluids Eng.*, Volume 136, Issue 9, Article number 091210, 2014
 104. M. G. Probyn, B. Thornber, D. Drikakis, D. Youngs, R. Williams, An Investigation into Non-Linear Growth Rate of 2D and 3D Single-Mode Richtmyer-Meshkov Instability, *ASME J. Fluids Eng.*, Volume 136, Issue 9, Article number 091208, 2014
 105. P. Tsoutsanis, A.F. Antoniadis, D. Drikakis, WENO schemes on arbitrary unstructured meshes for laminar, transitional and turbulent flow, *Journal of Computational Physics*, 256, 254-276, 2014
 106. S. Espinosa, N. Asproulis, and D. Drikakis, Chemotherapy efficiency increase via shock wave interaction with biological membranes: a molecular dynamics study, *Microfluidics and Nanofluidics*, 1-10, 2014.
 107. P. Hou, N. Asproulis, and D. Drikakis, Molecular Simulation of Crack Propagation in Aluminium, *Quantum Matter* 3, 406-411, 2014.
 108. Z.A. Rana, B. Thornber, D. Drikakis, Dynamics of Sonic Hydrogen Jet Injection and Mixing Inside Scramjet Combustor, *Journal of Engineering Application in Computational Fluid Mechanics*, Vol 7, 1, 13-39, 2013.
 109. M. Benke, E. Shapiro, D. Drikakis, On mesoscale modelling of dsDNA molecules in fluid flow, *Journal of Computational and Theoretical Nanoscience*, 10(3), 697-704, 2013.
 110. N. Asproulis and D. Drikakis, An Artificial Neural Network based Multiscale Method for Hybrid Atomistic-Continuum Simulations, *Microfluidics and Nanofluidics*, 15(4), 559-574, 2013.
 111. D. Knight, J. Longo, D. Drikakis, D. Gaitonde, A. Lani, I. Nompelis, B. Reimann, L. Walpot, Assessment of CFD capability for prediction of hypersonic shock interactions, *Progress in Aerospace Sciences*, Vol 48-49, 8-26, 2012.
 112. N. Asproulis, M. Kalweit, D. Drikakis, A Hybrid Molecular Continuum Method using Point Wise Coupling, *Advances in Engineering Software*, Vol. 46, Issue 1, 85-92, 2012.
 113. D. Mantzalis, N. Asproulis, D. Drikakis, Characterization of CO₂ flow through charged carbon nanotubes, *Journal of Physics: Conference Series*, 362(1), 2012.
 114. D. Mantzalis, N. Asproulis, D. Drikakis, Carbon dioxide transport in carbon nanopores, *Journal of Physics: Conference Series*, 362(1), 2012.
 115. A.F. Antoniadis, D. Drikakis, B. Zhong, G. Barakos, R. Steijl, M. Biava, L. Vigevano, A. Brocklehurst, O. Boelens, M. Dietz, M. Embacher, W. Khier, T. Renaud, Assessment of CFD methods against experimental measurements for helicopter flows, *Aerospace Science and Technology*, 19, 1, 86-100, 2012.
 116. J. Milnes, A. Burns, D. Drikakis, Computational modelling of the HyperVapotron cooling technique, *Fusion Engineering and Design*, 87(9), 1647-1661, 2012.
 117. B. Thornber, D. Drikakis, D.L. Youngs, R.J.R. Williams, Physics of the single-shocked and reshocked Richtmyer–Meshkov instability, *Journal of Turbulence*, Vol. 13, 10, 1-17, 2012.
 118. D. Drikakis, N. Asproulis, Quantification of Computational Uncertainty in Science and Engineering, *ASME Applied Mechanics Review*, 64(4), 2011.
 119. D. Mantzalis, N. Asproulis, D. Drikakis, Enhanced Carbon dioxide adsorption through Carbon Nanoscrolls, *Physical Review E*, 84(6), 06634, 2011.
 120. Z.A. Rana, B. Thornber, D. Drikakis, On the importance of generating accurate turbulent boundary condition for unsteady simulations, *Journal of Turbulence*, Vol. 12,

- 2011.
121. P.T. Barton, M. Kalweit, D. Drikakis, G. Ball, Multi-scale analysis of high-speed dynamic friction, *Journal of Applied Physics*, 110(9), 093520, 2011.
 122. P. Barton, B. Obadia, D. Drikakis, A conservative level-set based method for compressible solid/fluid problems on fixed grids, *Journal of Computational Physics*, Vol 230, Issue 21, 2011, 7867-7890, 2011.
 123. B. Thornber, D. Drikakis, D.L. Youngs, R.J.R. Williams, Growth of a Richtmyer-Meshkov turbulent layer after reshock, *Physics of Fluids*, 095107, 2011.
 124. A. Pagano, S. Ameduri, V. Cokonaj, A. Prachar, Z. Zachariadis, D. Drikakis, Helicopter blade morphing strategies aimed at mitigating environmental impact, *Journal of Theoretical and Applied Mechanics*, 49(4), 1233-1259, 2011.
 125. M. Kalweit, D. Drikakis, Multiscale simulation strategies and mesoscale modelling of gas and liquid flows, *IMA Journal of Applied Mathematics*, 1-11, 2011, Vol.76, Issue 5, 661-671
 126. A. Panaras, D. Drikakis, Physical and numerical aspects of the high-speed unsteady flow around concave axisymmetric bodies, *CEAS Space Journal*, 1(1-4), 23-32, 2011.
 127. M. Hahn, D. Drikakis, D. L. Youngs, R. J. R Williams, Richtmyer-Meshkov turbulent mixing arising from an inclined material interface with realistic surface perturbations and reshocked flow, *Physics of Fluids*, Vol. 23, 4, 046101, 2011.
 128. Y. Shimada, B. Thornber, D. Drikakis, High-order Implicit Large Eddy Simulation of gaseous fuel injection and mixing of a bluff body burner, *Computers & Fluids*, Vol. 44, 1, 229-237, 2011.
 129. A.F. Antoniadis, K.H. Iqbal, E. Shapiro, N. Asproulis, D. Drikakis, Comparison of High-order Finite Volume and Discontinuous Galerkin Methods on 3D Unstructured Grids, *Numerical Analysis and Applied Mathematics* (also in ICNAAM 2011 AIP Conf. Proc.) Vol. 1389, 1886-1889, 2011.
 130. Z.A. Rana, B. Thornber, D. Drikakis, Transverse jet injection into a supersonic turbulent cross-flow, *Physics of Fluids*, Vol. 23, 4, 046103, 2011.
 131. N. Asproulis, D. Drikakis, Wall mass effects on hydrodynamic boundary slip, *Physical Review E*, Vol. 84, 031504, 2011.
 132. J. Appleyard, D. Drikakis, Higher-order CFD and interface tracking methods on highly-Parallel MPI and GPU systems, *Computers & Fluids*, Vol. 46, 1, 101-105, 2011.
 133. V.A. Titarev, D. Drikakis, Uniformly high-order schemes on arbitrary unstructured meshes for advection-diffusion equations, *Computers & Fluids*, Vol. 46, 1, 467-471, 2011.
 134. D. Mantzalis, N. Asproulis, D. Drikakis, Filtering carbon dioxide through carbon nanotubes, *Chemical Physics Letters*, Vol. 506, 1-3, 81-85, 2011.
 135. P. Tsoutsanis, V.A. Titarev, D. Drikakis. WENO schemes on arbitrary mixed element unstructured meshes in three space dimensions, *Journal of Computational Physics*, Vol. 230, 4(20), 1585-1601, 2011.
 136. I. Gaskin, E. Shapiro, D. Drikakis, Numerical and Experimental Study of a Thermal Time of Flight Flow Meter, *ASME Journal of Fluids Engineering*, 133 (4), 041401, 2011.
 137. D. Drikakis, C. Milionis, S. K. Pal, S. Patel, E. Shapiro, Assessment of the applicability of analytical models for blood flow prediction in reconstructive surgery, accepted, *International Journal for Numerical Methods in Biomedical Engineering*, 27(7), 993-999, 2011.
 138. M. Benke, E. Shapiro, D. Drikakis, Mechanical behaviour of DNA molecules-elasticity and migration, *Medical Engineering and Physics*, 33, Issue 7, 883-886, 2011.
 139. B. Thornber, M. Starr, D. Drikakis, Implicit large eddy simulation of ship airwakes, *The Aeronautical Journal*, 114, 1162, 715-736, 2011.
 140. S. Tissera, D. Drikakis, T. Birch, Computational Fluid Dynamics Methods for Hypersonic Flow Around Blunted-Cone-Cylinder-Flare, *Journal of Spacecraft and Rockets*, Vol. 47, 4, 563-570, 2010.
 141. M. Porton, E. Shapiro, D. Drikakis, Transitional Modelling of the Neutral Gas in the JET Neutraliser, *Fusion Engineering and Design*, 85(5), 789-795, 2010.

142. N. Asproulis, D. Drikakis, Boundary slip dependency on surface stiffness, *Physical Review E*, 81, 061503, 2010.
143. B. Thornber, D. Drikakis, D. L. Youngs, R. J. R. Williams, The influence of initial conditions on turbulent mixing due to Richtmyer-Meshkov instability, *Journal of Fluid Mechanics*, 654, 99-139, 2010.
144. D. Drikakis, N. Asproulis, Multiscale Computational Modelling of Flow and Heat Transfer, *International Journal for Numerical Methods for Heat and Fluid Flow*, Vol 20, Issue 5, 2010.
145. M. Lai, M. Kalweit, D. Drikakis, Temperature and ion concentration effects on the viscosity of Price-Brooks TIP3P water model, *Molecular Simulation*, Vol. 36, Issue 10, 801-804, 2010.
146. M. Kalweit, D. Drikakis, On the behavior of fluidic material at molecular dynamics boundary conditions used in hybrid molecular-continuum simulations, *Molecular Simulation*, Vol. 36, Issue 9, 657-662, 2010.
147. N. Asproulis, D. Drikakis, Surface Roughness Effects in Micro and Nanofluidic Devices, *Journal of Computational and Theoretical Nanoscience*, Vol. 7, Issue 9, 1825-1830, 2010.
148. P. Barton, D. Drikakis, An Eulerian method for multi-component problems in non-linear elasticity with sliding interfaces, *Journal of Computational Physics*, Vol. 229, Issue 15, 1, 5518-5540, 2010.
149. V. A. Titarev, P. Tsoutsanis, D. Drikakis, WENO schemes for mixed-element unstructured meshes, *Commun. Comput. Phys.*, 8, 585-609, 2010.
150. N. Epiphaniou, M. Kalweit, D. Drikakis, G. Ball, N. Park, Molecular dynamics simulations of dynamic friction and mixing at rapidly moving material interfaces, *Journal of Computational and Theoretical Nanoscience*, 7, 97-106, 2010.
151. A. Buonanno, D. Drikakis, C. Papachristou, A. Savvaris, C. Vamvakoulas, C. Warsop, Computational investigation of the DEMON unmanned air vehicle thrust vectoring system, *Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering*, Vol. 224, 4, 387-394, 2010.
152. E. Romenskiy, D. Drikakis, E. Toro, Models and Numerical Methods for Compressible Two-Phase Flow, *Journal of Scientific Computing*, 42, 68-95, 2010.
153. P. T. Barton, D. Drikakis, E. I. Romenski, An Eulerian finite-volume scheme for large elastoplastic deformations in solids, *International Journal for Numerical Methods in Engineering*, Vol. 81, Issue 4, 453-484, 2010.
154. E. Quaranta, D. Drikakis, Noise radiation from a ducted rotor in a swirling-translating flow, *Journal of Fluid Mechanics*, 641, 463-473, 2009.
155. J. S. Pushparajalingam, M. Kalweit, M. Labois, D. Drikakis, Molecular dynamics of adsorption of argon on graphene, carbon nanotubes and carbon nanotubes bundles, *Journal of Computational and Theoretical Nanoscience*, 6(10), 2156-2163, 2009.
156. P. Pantazopoulou, D. Drikakis, Computational Modelling of Acoustic Scattering of a Sound Source in the Vicinity of the Ground, *Engineering Letters*, 17, 4, 219-226, 2009.
157. A. Panaras, D. Drikakis, High-speed unsteady flows around spiked-blunt bodies, *Journal of Fluid Mechanics*, Vol. 632, 69-96, 2009.
158. D. Drikakis, M. Hahn, A. Mosedale, B. Thornber, Large Eddy Simulation Using High Resolution and High Order Methods, *Philosophical Transactions Royal Society A*, 367, 2985-2997, 2009.
159. V. A. Titarev, E. Romenski, D. Drikakis, E. Surrey, Computational modelling of the IFMIF lithium target, *Fusion Engineering and Design*, Vol. 84, 1, 49-56, 2009.
160. M. Hahn, D. Drikakis, Implicit Large-Eddy Simulation of Swept Wing Flow using High-Resolution Methods, *AIAA Journal*, Vol. 47, 3, 618-629, 2009.
161. N. Asproulis, M. Kalweit, E. Shapiro, D. Drikakis, Mesoscale flow and heat transfer modelling and its application to liquid and gas flows, *Journal of Nanophotonics*, 3(01), 031960-031975, 2009.
162. D. Drikakis, J. Lechuga, S. Pal, Effects of Shock Waves on Biological Membranes: A Molecular Dynamics Study, *Journal of Computational and Theoretical Nanoscience*,

Vol.6, 1-6, 2009.

163. P. T. Barton, D. Drikakis, E.I. Romenski, V. Titarev, Exact and approximate solutions of Riemann problems in non-linear elasticity, *Journal of Computational Physics*, Vol. 228, 18, 7046-7068, 2009.
164. M. Hahn, D. Drikakis, Assessment of Large-Eddy Simulation of Internal Separated Flow, *Journal of Fluids Engineering*, Vol. 131, 071201-071215, 2009.
165. J. Milnes, D. Drikakis, Qualitative assessment of RANS models for Hypervapotron flow and heat transfer, *Fusion Engineering and Design*, Vol. 84, 1305-1312, 2009.
166. B. Thornber, D. Drikakis, Implicit Large Eddy Simulation of a Deep Cavity Using High-Resolution Methods, *AIAA Journal*, Vol. 46, 10, 2634-2685, 2008.
167. B. Thornber, A. Mosedale, D. Drikakis, D. Youngs, R. Williams, An Improved Reconstruction Method for Compressible Flows with Low Mach Number Features, *Journal of Computational Physics*, 227, 4873-4894, 2008.
168. B. Thornber, D. Drikakis, R. Williams, D. Youngs, On Entropy Generation and Dissipation of Kinetic Energy in High-Resolution Shock-Capturing Schemes, *Journal of Computational Physics*, 227, 4853-4872, 2008.
169. E. Romenskiy, D. Drikakis, Compressible two-phase flow modelling based on thermodynamically compatible systems of hyperbolic conservation laws, *International Journal for Numerical Methods in Fluids*, Vol. 56, 1473-1479, 2008.
170. SK Pal, J. Lechuga, D. Drikakis On the controversy of the alveolar structure: a molecular dynamics study. *British Journal of Anaesthesia* 2008;100:578P.
171. B. Thornber, D. Drikakis, Numerical dissipation of upwind schemes in low Mach flow, *International Journal for Numerical Methods in Fluids*, Vol. 56, 8, 1535-1541, 2008.
172. B. Thornber, D. Drikakis, D. Youngs, Large-eddy simulation of multi-component compressible turbulent flows using high resolution methods, *Computers and Fluids*, 37(7), 867-876, 2008.
173. M. Benke, E. Shapiro, D. Drikakis, An efficient multi-scale modelling approach for ssDNA motion in fluid flow, *Journal of Bionic Engineering*, Vol. 5, 4, 299-307, 2008.
174. N. Asproulis, D. Drikakis, Nanoscale materials modelling using neural networks, *Journal of Computational and Theoretical Nanoscience*, 6(3), 514-518, 2009.
175. M. Kalweit, D. Drikakis, Multiscale Methods for Micro/Nano Flows and Materials, *Journal of Computational and Theoretical Nanoscience*, 5, 1923-1938, 2008.
176. M. Kalweit, D. Drikakis, Coupling strategies for hybrid molecular-continuum simulation methods, *Proc. IMechE*, Vol. 222, Part C: *J. Mechanical Engineering Science*, 797-806, 2008.
177. S. Pal, D. Drikakis, J. Lechuga. Molecular diffusion in a simulated model of a biological cell membrane by shock wave impulse. *British Journal of Anaesthesia*, 101(4): 587, 2008.
178. J. Lechuga, D. Drikakis, S. Pal, Molecular dynamics study of the interaction of a shock wave with a biological membrane, *International Journal for Numerical Methods in Fluids*, 57, 677-692, 2008.
179. F. Grinstein, D. Drikakis, (*Editorial*) Computing Turbulent Flow Dynamics With Implicit Large Eddy Simulation, *Journal of Fluids Engineering*, 129, 1481, 2007.
180. B. Thornber, D. Drikakis, Large eddy simulation of shock-wave-induced turbulent mixing, *ASME Journal of Fluids Engineering*, 1505-1513, 2007.
181. A. Mosedale, D. Drikakis, Assessment of very high-order of accuracy in LES models, *ASME Journal of Fluids Engineering*, Vol. 129(12), 1497-1503, 2007.
182. B. Thornber, A. Mosedale, D. Drikakis, On the implicit large eddy simulations of homogeneous decaying turbulence, *Journal of Computational Physics*, 226, 1902-1929, 2007.
183. D. Drikakis, M. Hahn, Z. Malick, E. Shapiro, Implicit Large Eddy Simulations of Wall-Bounded Turbulent Flows, *ERCOfTAC Bulletin, Special Issue on Wall Modelling in LES*, 72, 61-66, 2007.
184. E. Shapiro, D. Drikakis, J. Gargiuli, P. Vadgama, Interface capturing in dual-flow microfluidics, *Journal of Computational and Theoretical Nanoscience*, 4, 802-806, 2007.

185. D. Drikakis, C. Fureby, F. Grinstein, D. Youngs, Simulation of Transition and Turbulence-Decay in Taylor-Green Vortex, *Journal of Turbulence*, 8, 1, 1-12, 2007.
186. G. Nair, J. Garguili, N. R. Shiju, Z. Rhong, E. Shapiro, D. Drikakis, P. Vadgama, In Situ fabrication of Crosslinked Protein Membranes using Microfluidics, *ChemBioChem*, 7(11), 1683-1689, 2006.
187. J. Garguili, E. Shapiro, H. Gulhane, G. Nair, D. Drikakis, P. Vadgama "Microfluidic systems for in situ formation of nylon 6,6 membranes" *Journal of Membrane Science*, 282, 257-265, 2006.
188. M. Kalweit, D. Drikakis, Collision Dynamics of Nanoscale Lennard-Jones Clusters, *Physical Review B*, 74, 235415, 2006 (doi:10.1103/PhysRevB.74.235415).
189. E. Shapiro, D. Drikakis, Non-conservative and conservative formulations of characteristics numerical reconstructions for incompressible flows, *International Journal for Numerical Methods in Engineering*, Vol. 66, 9, 1466-1482, 2006.
190. A. Bagabir, D. Drikakis, Shock-wave induced instability in internal explosion dynamics, *The Aeronautical Journal*, Vol. 109, 1101, 2005.
191. D. Drikakis, . Youngs, F. Grinstein, Symmetry-breaking and instabilities in Fluid Mechanics, *Progress in Aerospace Sciences*, 41, 609-641, 2005.
192. M. Hahn, D. Drikakis, Large eddy simulation of compressible turbulence using high-resolution methods, *International Journal for Numerical Methods in Fluids*, 47, 971-977, 2005.
193. S. Patel, D. Drikakis, Effects of preconditioning on the accuracy and efficiency of incompressible flows, *International Journal for Numerical Methods in Fluids*, 47, 963-970, 2005.
194. E. Shapiro, D. Drikakis, Artificial compressibility, characteristics-based schemes for variable density, incompressible, multi-species flows. Part I. Derivation of different formulations and constant density limit, *Journal of Computational Physics*, 210, 584-607, 2005.
195. E. Shapiro, D. Drikakis, Artificial compressibility, characteristics-based schemes for variable density, incompressible, multi-species flows. Part II. Multigrid implementation and numerical tests, *Journal of Computational Physics*, 210, 608-631, 2005.
196. S. Patel, D. Drikakis, S. Pal, Computational Fluid Dynamics of flow through a free flap in reconstructive surgery, *International Journal for Dynamics in Fluids*, Vol. 1, 1, 25-36(12), 2005.
197. D. Drikakis, M.Hahn, S. Patel and E. Shapiro, High-resolution methods for incompressible compressible and variable density flows, *ERCOFTAC Bulletin*, 62, 2004.
198. A. Bagabir, D. Drikakis, Numerical experiments using high-resolution schemes for unsteady, inviscid, compressible flows, *Computer Methods in Applied Mechanics and Engineering*, Vol 193/42-44, 4675-4705, 2004.
199. M. Kalweit, D. Drikakis, Molecular Dynamics of Colliding Nanoclusters, *Journal of Computational and Theoretical Nanoscience*, 4, 367-377, 2004.
200. S. Pal, S. Patel, D. Drikakis, Effect of anastomosis on fluid flow through the arterial network of a rectus abdominis free flap, *British Journal of Anaesthesia*, 94, 403-404, 2004.
201. S. Pal, S. Patel, D. Drikakis, Simulation of fluid flow through the arterial network of a rectus abdominis free flap, *British Journal of Anaesthesia*, 93, 167-168, 2004.
202. D. Drikakis, Advances in turbulent flow computations using high-resolution methods, *Progress in Aerospace Science*, 39, 405-424, 2003.
203. G. Barakos, D. Drikakis, Computational study of unsteady flows around oscillating and ramping aerofoils, *International Journal for Numerical Methods in Fluids*, 42, 2, 163-186, 2003.
204. P. Neofytou, D. Drikakis, Effects of blood models on flows through a stenosis, *International Journal for Numerical Methods in Fluids*, 43, 597-635, 2003.
205. P. Neofytou, D. Drikakis, Non-Newtonian flow instability in a channel with a sudden expansion, *Journal of Non-Newtonian Fluid Mechanics*, 111(2-3), 127-150, 2003.
206. D. Drikakis, Embedded Turbulence Model in Numerical Methods for Hyperbolic

- Conservation Laws, *International Journal for Numerical Methods in Fluids*, 39, 763-781, 2002.
207. D. Drikakis, L. Margolin, P.K. Smolarkiewicz, "Spurious" eddies, *International Journal for Numerical Methods in Fluids*, 40, 313-322, 2002.
 208. F. Mallinger, D. Drikakis, Laminar-to-turbulent transition in pulsatile flow through a stenosis, *Biorheology Journal*, 39, 437-441, 2002.
 209. F. Mallinger, D. Drikakis, Instability in three-dimensional, unsteady stenotic flows, *International Journal of Heat and Fluid Flow*, 23, 657-663, 2002.
 210. M. A. Leschziner, D. Drikakis, Turbulence and turbulent-flow computation in aeronautics, *The Aeronautical Journal*, 2729, 349-384, 2002.
 211. A. Bagabir, D. Drikakis, Mach number effects on shock-bubble interaction, *Shock Waves Journal*, 11, 209-218, 2001.
 212. J. Rokicki, J. Majewski, D. Drikakis, J. Zoltak, Parallel Chimera Grid Method, *Future Generation of Computer Systems*, 18, 3-15, 2001.
 213. D. Drikakis, P.K. Smolarkiewicz, On spurious vortical structures, *Journal of Computational Physics*, 172, 309-325, 2001.
 214. D. Drikakis, J. Majewski, J. Rokicki, J. Zoltak, Investigation of blending-function-based overlapping-grid technique for compressible flows, *Computer Methods in Applied Mechanics and Engineering*, 190, 5173-5195, 2001.
 215. G. Barakos, D. Drikakis, Numerical simulation of transonic buffet flows using various turbulence closures, *International Journal of Heat and Fluid Flow*, 21, 620-626, 2000.
 216. G. Barakos, D. Drikakis, Investigation of non-linear eddy-viscosity models in shock boundary-layer interaction, *AIAA Journal*, Vol. 38, 3, 461-469, 2000.
 217. G. Barakos, D. Drikakis, Unsteady separated flows over manoeuvring lifting surfaces, *Phil. Trans. Royal Soc. Lond. A*, 358, 3279-3291, 2000.
 218. D. Drikakis, O. Iliev, D.P. Vassileva, Acceleration of multigrid flow computation through dynamic adaptation of the smoothing procedure, *Journal of Computational Physics*, 165, 566-591, 2000.
 219. G. Barakos, D. Drikakis, An implicit unfactored method for unsteady, turbulent compressible flows with moving boundaries, *Computers and Fluids Journal*, 28, 8, 899-921, 1999.
 220. G. Barakos, D. Drikakis, W. Lefebvre, Improvement to numerical predictions of aerodynamic flows using experimental data assimilation, *Journal of Aircraft*, Vol. 36, 3, 611-614, 1999.
 221. J. Zoltak, D. Drikakis, Hybrid upwind methods for the simulation of unsteady shock-wave diffraction over a cylinder, *Computer Methods in Applied Mechanics and Engineering*, Vol. 162, 1-4, 165-185, 1998.
 222. G. Barakos, D. Drikakis, Assesment of various low-Re turbulence models in shock boundary layer interaction, *Computer Methods in Applied Mechanics and Engineering*, Vol. 160, 1-2, 155-174, 1998.
 223. G. Barakos, D. Drikakis, Implicit-coupled implementation of two-equation turbulence models in compressible Navier-Stokes methods, *International Journal for Numerical Methods in Fluids*, 28, 73-94, 1998.
 224. D. Drikakis, O. Iliev, D.P. Vassileva, A non-linear full multigrid method for the three-dimensional incompressible Navier-Stokes equations, *Journal of Computational Physics*, 146, 301-321, 1998.
 225. D. Drikakis, U. Goldberg, Wall-distance-free turbulence models applied to incompressible flows, *International Journal of Computational Fluid Dynamics*, Vol. 10, 241-253, 1998.
 226. D. Drikakis, Study of bifurcation flow phenomena in incompressible sudden-expansion flows, *Physics of Fluids*, 9, 1, 76-87, 1997.
 227. D. Drikakis, D. Ofengeim, E. Timofeev, P. Voinovich, Computation of non-stationary shock-wave/cylinder interaction using adaptive grid methods, *Journal of Fluids and Structures*, 11, 7, 665-691, 1997.

228. D. Ofengeim, D. Drikakis, Simulation of blast wave propagation over a cylinder, *Shock Waves Journal*, 7, 305-317, 1997.
229. W. Angelis, D. Drikakis, F. Durst, W. Khier, Numerical and experimental study of the flow over a two-dimensional car model, *Journal of Wind Engineering & Industrial Aerodynamics*, 62, 57-79, 1996.
230. D. Drikakis, A Parallel Multiblock Characteristics-Based Method for 3D Incompressible Flows, *Advances in Engineering Software*, 26, 111-119, 1996.
231. D. Panayotounakos, D. Drikakis, On the closed form solutions of the wave Diffusion and Burger's Equation in Fluid Mechanics, *Journal of Applied Mathematics & Mechanics (Zeitschrift für Angewandte Mathematik Mechanik; ZAMM)*, 75, 6, 437-447, 1995.
232. D. Drikakis, F. Durst, A numerical study of viscous supersonic flow past a flat plate at large angles of incidence, *Physics of Fluids*, Vol. 6, 4, 1553-1573, 1994.
233. D. Drikakis, E. Schreck, F. Durst, Performance analysis of viscous flow computations on various parallel architectures, *ASME Journal of Fluids Engineering*, Vol. 116, 835-841, 1994.
234. D. Drikakis, F. Durst, Investigation of flux formulae in shock wave turbulent boundary layer interaction, *International Journal for Numerical Methods in Fluids*, Vol. 18, 385-413, 1994.
235. D. Drikakis, F. Durst, Parallelization of inviscid and viscous flow solvers, *International Journal of Computational Fluid Dynamics*, Vol. 3, 101-121, 1994.
236. D. Drikakis, P. Govatsos, D. Papantonis, A Characteristic Based Method for Incompressible Flows, *International Journal for Numerical Methods in Fluids*, Vol. 19, 667-685, 1994.
237. D. Drikakis, S. Tsangaris, On the solution of the compressible Navier-Stokes equations using improved flux vector splitting methods, *Applied Mathematical Modelling*, Vol. 17, 282-297, 1993.
238. D. Drikakis, S. Tsangaris, Real Gas effects for Compressible Nozzle Flows, *ASME Journal of Fluids Engineering*, Vol. 115, 115-120, 1993.
239. D. Drikakis, S. Tsangaris, On the Accuracy and Efficiency of CFD Methods in Real Gas Hypersonics, *International Journal for Numerical Methods in Fluids*, Vol. 16, 759-775, 1993.
240. D. Drikakis, S. Tsangaris, Zonal-Local Solution Method for the Accelerated Solution of the Turbulent Navier-Stokes Equations, *AIAA Journal*, Vol. 31, 10, 1759-1760, 1993.
241. D. Drikakis, S. Tsangaris, Local Solution Acceleration Method for the Compressible Euler and Navier-Stokes Equations, *AIAA Journal*, Vol. 30, 2, 340-348, 1992.
242. D. Drikakis, S. Tsangaris, Upwind schemes for the Navier-Stokes equations from subsonic through hypersonic speeds, *Journal of Applied Mathematics & Mechanics (Zeitschrift für Angewandte Mathematik Mechanik; ZAMM)*, Vol. 72, 5, 385-388, 1992.
243. D. Drikakis, S. Tsangaris, An Implicit Characteristic Flux Averaging Scheme for the Euler Equations for Real Gases, *International Journal for Numerical Methods in Fluids*, Vol. 12, 711-726, 1991.
244. D. Drikakis, S. Tsangaris, Multigrid Scheme for the Compressible Euler Equations, *Journal of Applied Mathematics & Mechanics (Zeitschrift für Angewandte Mathematik Mechanik; ZAMM)*, Vol 70, 6, 663-666, 1990.
245. S. Tsangaris, D. Drikakis, Pulsating blood flow in an anisotropic elastic tube: Linear approximation of the pressure waves, *Medical and Biological Engineering and Computing*, Vol. 27, 82-88, 1989.

Chapters in Edited Books (Refereed)

246. D. Mantzalis, N. Asproulis, L. Könözy and D. Drikakis, Computational Modelling of Aqueous Environments, Book Chapter on Detection of Pathogens in Water Using Micro and Nano-Technology, IWA Publishing, 2012
247. P. Sagaut, D. Drikakis, Large Eddy Simulation, *Encyclopedia of Aerospace Engineering*, John Wiley & Sons Ltd, 2010.

248. D. Drikakis, Introduction to compressible flows, *Encyclopedia of Aerospace Engineering*, John Wiley & Sons Ltd, 2010.
249. D. Drikakis, N. Asproulis, E. Shapiro, M. Benke, Computational Strategies for Micro and Nanofluid Dynamics, In *Microfluidic Devices in Nanotechnology: Current Status and a Future Perspective*, ed. C.S.S.R. Kumar, John Wiley, 2010.
250. D. Drikakis, C. Fureby, F. Grinstein, D. Youngs, Flux limiting schemes for Implicit Large Eddy Simulation, in *Implicit Large Eddy Simulation: Computing Turbulent Fluid Dynamics*, eds. Grinstein et al., Cambridge University Press, 2007.
251. D. Drikakis, Symmetry-breaking bifurcation and instabilities, in *Implicit Large Eddy Simulation: Computing Turbulent Fluid Dynamics*, eds. Grinstein et al., Cambridge University Press, 2007.
252. D. Drikakis, M. Kalweit, Computational Modelling of Flow and Mass Transport Processes in Nanotechnology, Invited Chapter in the First Handbook in *Theoretical and Computational Nanotechnology*, eds. M. Rieth, W.Schommers, American Scientific Publishers, Chapter 11, 470-545, 2006.
253. W. Rider, D. Drikakis, High Resolution Methods for Computing Turbulent Flows, In *Turbulent Flow Computation*, eds. D. Drikakis, B. Geurts, Kluwer Academic Publisher, 43-74, 2002.
254. D. Drikakis, The issue of numerical accuracy in Computational Fluid Dynamics, *Computational Fluid Dynamics in Practice*, UK Institution of Mechanical Engineers, ed. N. Rhodes, Edited Review Chapter, 1-22, 2001.
255. D. Drikakis, Uniformly high-order methods for unsteady incompressible flows, edited review chapter in the book *Godunov Methods: Theory and Applications*, Kluwer Academic Publishers ed. E.F. Toro, 263-283, 2001.
256. D. Drikakis, Unsteady shock-wave diffraction, *Recent Research Developments in Fluid Dynamics*, Vol. 2, 1-19, ed. S.G. Pandalai, Transworld Research Network, 1999.
257. D. Drikakis, Parallelisation of CFD methods for incompressible and compressible flows, In *High Performance Computing, Vol 4, Algorithms and Applications of Parallel Computing*, ed. H. Power, Computational Mechanics Publications, 117-155, 1999.
258. J. Rokicki, D. Drikakis, J. Majewski, J. Zoltak, Overlapping Mesh Technique for Compressible Flows-Parallel Implementation, *The Springer International Series in Engineering and Computer Science, Vol. 515, Parallel Numerical Computations with Applications*, ed. Tianruo Yang, 159-175, 1999.

Conference papers

259. Sovatzidi, G., Triantafyllou, G., Dimas, G., Kalozoumis, P.G., Drikakis, D., Kokkinakis, I.W., Markakis, I.A., Golna, C. and Iakovidis, D.K., 2024, June. Risk Assessment of COVID-19 Transmission on Cruise Ships Using Fuzzy Rules. In IFIP International Conference on Artificial Intelligence Applications and Innovations (pp. 336-348). Cham: Springer Nature Switzerland.
260. Bram-Larbi K.F., Charissis V., Khan S., Lagoo R., Harrison D.K., Drikakis D. Intelligent Collision Avoidance and Manoeuvring System with the Use of Augmented Reality and Artificial Intelligence
261. Bram-Larbi, K.F., Charissis, V., Khan, S., Harrison, D.K., Drikakis, D., Improving Emergency Vehicles' Response Times with the Use of Augmented Reality and Artificial Intelligence, Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 2020, 12429 LNCS, pp. 24–39.
262. R. Kamenicky, M. Frank, D. Drikakis, K. Ritos A study of nucleate boiling conjugate heat transfer, *Advances in Heat Transfer and Thermal Engineering: Proceedings of 16th UK Heat Transfer Conference (UKHTC2019)*, Eds. Chuang Wen, Yuying Yan, 2020.
263. Petropoulou, A., Antonopoulos, G., Bastock, P., Kakarantzas, G, Craig, C, Drikakis, D., Hewak, D.W., Zervas, M.N., Riziotis, C. Design and Implementation of Fiber-

- embedded Plasmonic Structures in Microwires, Progress in Electromagnetics Research Symposium, 2019, 2019-June, pp. 2951–2957, 9017635.
264. K. Ritos, I.W. Kokkinakis, D. Drikakis, Turbulence Anisotropy and Acoustic Loading in Hypersonic STBLI, Proceedings of 7th European Conference on Computational Fluid Dynamics (ECFD 7) 11-15 June 2018, Glasgow, UK.
 265. K. Ritos, D. Drikakis, Computational Aeroacoustics beneath High Speed Transitional and Turbulent Boundary Layers, Tenth International Conference on Computational Fluid Dynamics (ICCFD10), Barcelona, Spain, July 9-13, 2018.
 266. M. Frank, D. Drikakis, Flow and heat transfer process at fluid-solid interfaces on molecular scale, Proceedings of 7th European Conference on Computational Fluid Dynamics (ECFD 7) 11-15 June 2018, Glasgow, UK.
 267. I. W. Kokkinakis, D. Drikakis and D. L. Youngs, Four-equation Models for Rayleigh–Taylor Mixing, 16th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCMT16), Marseilles, France, July 15-20, 2018.
 268. K. Singh, D. Drikakis, M. Frank I.W. Kokkinakis, J.J. Alonso, T.D. Economou, E.T. van der Weide, Comparison of the Finite Volume and Discontinuous Galerkin schemes for the Double Vortex Pairing Problem using the SU2 Software Suite, AIAA Science and Technology Forum and Exposition, January 07-12, 2018, AIAA-2018-1833.
 269. K. Ritos, I.W. Kokkinakis D. Drikakis, Physical insight into a Mach 7.2 compression corner flow, AIAA Science and Technology Forum and Exposition, January 07-12, 2018, AIAA-2018-1810.
 270. M. Frank, D. Drikakis, Mesoscale models for solid/liquid interfaces using HPC, 29th International Conference on Parallel Computational Fluid Dynamics, Glasgow, 15-17May 2017.
 271. K. Ritos, I.W. Kokkinakis, D. Drikakis, Balancing accuracy requirements and computational cost in implicit LES and DNS, 29th International Conference on Parallel Computational Fluid Dynamics, Glasgow, 15-17May 2017 (full paper under review in Computer & Fluids)
 272. M. Frank, D. Drikakis, Inert state of fuel tank during aircraft ascent, AIAA-2017-0392, AIAA SciTech Conference, Gaylord Texan, Grapevine, Texas, 9-13 January, 2017.
 273. K. Ritos, I. Kokkinakis, D. Drikakis, Thermo-Acoustic Effects in High-Speed Compressible Transitional and Turbulent Boundary Layers, AIAA-2017-0745 , Gaylord Texan, Grapevine, Texas, 9-13 January, 2017.
 274. M. Frank, D. Drikakis, Does particle size matter in nanofluids' thermal properties? 5th International Conference on Micro and Nano Flows, MNF2016, Politecnico di Milano, Italy, 11-14 September 2016.
 275. I. Kokkinakis, D. Drikakis, Vortex Dynamics in Supersonic Shock-Boundary Layer Interaction Flows, 6th EASN International Conference on Innovation in European Aeronautics Research, Porto, Portugal, 18-21 October 2016.
 276. M. Frank, D. Drikakis, Evolution of oxygen in aircraft fuel tanks during climb, 6th EASN International Conference on Innovation in European Aeronautics Research, Porto, Portugal, 18-21 October 2016.
 277. N. Simmonds, P. Tsoutsanis, D. Drikakis, A. Gaylard, W. Jansen, Full Vehicle Aero-Thermal Cooling Drag Sensitivity Analysis for Various Radiator Pressure Drops, SAE Technical Paper 2016-01-1578.
 278. P. Tsoutsanis, D. Drikakis, Addressing the challenges of implementation of high- order finite-volume schemes for atmospheric dynamics on unstructured meshes, VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2016), June 5-10, Crete, Greece.
 279. I. Kokkinakis, D. Drikakis, Near wall behaviour of implicit large eddy simulations, VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2016), June 5-10, Crete, Greece.
 280. L. Könözy, P. Scienza, D. Drikakis, Validation of a magneto- and ferro-hydrodynamic model for non-isothermal flows in conjunction with Newtonian and non-Newtonian fluids,

VII European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2016), June 5-10, Crete, Greece.

281. A. Ciarella, C. Tsotskas, M. Hahn, NPM Werter, RD Breuker, CS Beaverstock, MI Friswell, Y. Yang, S. Özgen, A. Antoniadis, D. Drikakis, and P. Tsoutsanis A Multi-Fidelity, Multi-Disciplinary Analysis and Optimization Framework for the Design of Morphing UAV Wing, 16th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, AIAA Aviation, (AIAA 2015-2326).
282. M. Papanikolaou, D. Drikakis, Molecular Dynamics Simulations of surface roughness effects on monatomic liquid flows, European Coating Symposium, Eindhoven, September 9-11, 2015.
283. Z. Rana, D. Drikakis, High Resolution Methods for the investigations in to the Low-Frequency Unsteadiness in SWBLI, IMA Conference on Numerical Methods for Simulation, 1 – 4 September 2015, Mathematical Institute, University of Oxford.
284. Z. Rana, D. Drikakis, Low-Frequency Unsteadiness in 3D Shock-Wave/Boundary-Layer Interactions in a Supersonic Crossflow, Session FD-38, Unsteady Flow II, 53rd AIAA, Aerospace SciTech Conference 2015.
285. A. Antoniadis, P. Tsoutsanis, D. Drikakis, Numerical Accuracy in RANS Computations of High-Lift Multi-Element Airfoil and Aircraft Configurations, Session FD-13, RANS/LES Applications, 53rd AIAA, Aerospace SciTech Conference 2015.
286. A. Antoniadis, P. Tsoutsanis, Z. Rana, I. Kokkinakis, D. Drikakis, Azure: An Advanced CFD Software Suite Based on High-Resolution and High-Order Methods, Session FD-21, CFD Methods IV, 53rd AIAA, Aerospace SciTech Conference 2015.
287. M. Frank, D. Drikakis, N. Asproulis, Investigation of the thermal conductivity of a Water-Copper nanofluid confined in a graphene nano-channel, Microfluidics Conference, UCL London, 2014.
288. D. Drikakis, M. Frank, N. Asproulis, Advances and Challenges in Computational Research of Micro and Nano Flows, Microfluidics Conference, UCL London, 2014.
289. M. Probyn, A. Aspden, B. Thornber, D. Drikakis, R. J. R. Williams, D. L. Youngs, Simulation of High Atwood Reshocked Richtmyer–Meshkov, 14th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM14), San Francisco, 2014.
290. I. Kokkinakis, D. Drikakis, D. L. Youngs, R. J. R. Williams Comparison of two-equation and multi-fluid turbulence models for Rayleigh-Taylor and Richtmyer-Meshkov mixing, 14th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM14), San Francisco, 2014.
291. P. Tsoutsanis, A.F. Antoniadis, D. Drikakis, Implicit Large Eddy Simulation using Second and Higher-Order Methods on Unstructured Meshes, 6th European Conference on Computational Fluid Dynamics, Barcelona, Spain, 2014.
292. A.F. Antoniadis, P. Tsoutsanis, D. Drikakis, High-Order RANS Solutions for full aircraft and high-lift devices, Proceedings of the Royal Aeronautical Society Applied Aerodynamics Conference, Bristol, UK, 2014.
293. M. Frank, D. Drikakis, N. Asproulis, Thermal behaviour of nanofluids confined in nanochannels, 11th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, Greece, 2014.
294. M. Papanikolaou, D. Drikakis, N. Asproulis, Multiscale Computational Modelling of Mechanical Properties of Polymers for Adaptive Aerospace Structures, 11th International Conference on Nanosciences and Nanotechnologies, Thessaloniki, Greece, 2014.
295. C. Turquand d’Auzay, B. Thornber, D. Drikakis, Novel volume fraction approach for the Large Eddy Simulation of compressible premixed flame, Proceedings, Joint meeting of The British and Scandinavian-Nordic Sections of the Combustion Institute, pp. 63-64, 2014.
296. M.G. Probyn, B. Thornber, D. Drikakis, R.J.R. Williams, D.L. Youngs, Reshock of Self-Similar Multimode Richtmyer–Meshkov Instability at High Atwood Number in Heavy-Light and Light- Heavy Configurations, European Turbulence Conference (ETC 14), 1-4 September 2013.

297. M. Papanikolaou, D. Drikakis, N. Asproulis, 6th DeMEASS Conference (Design, Modelling and Experiments of Advanced Structures and Systems), Delft University of Technology, , 25-28 May 2014.
298. L. Könözsy, N. Asproulis, D. Drikakis, High-Resolution Characteristics-based Godunov-type Method for Modelling Acoustic Waves in conjunction with Incompressible Microscale Laminar Flow, The 15th International Conference on Fluid Flow Technologies, Conference on Modelling Fluid Flow (CMFF'2012), Budapest, Hungary, Vol. II, pp. 899-906, 2012.
299. P. Tsoutsanis, D. Drikakis, J. Lelieveld, 'Modelling atmospheric flows on 3D hybrid unstructured meshes using high-order methods', 3rd International EULAG Workshop, Loughborough, UK, 2012.
300. P. Tsoutsanis, D. Drikakis, J. Lelieveld, 'Large eddy simulation of turbulent flows on 3D hybrid unstructured meshes', ECCOMAS 2012 Congress, Vienna, Austria, 2012. September 10-14, 2012, Vienna, Austria, Eds.: Eberhardsteiner, J.; Böhm, H.J.; Rammerstorfer, F.G., Publisher: Vienna University of Technology, Austria, ISBN: 978-3-9502481-9-7
301. L. Könözsy, D. Drikakis "A Coupled High-Resolution Fractional-Step Artificial Compressibility and Pressure-Projection Formulation for Solving Incompressible Multi-Species Variable Density Flow Problem at Low Reynolds Numbers", CD-ROM Proceedings of the 6th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2012), September 10-14, 2012, Vienna, Austria, Eds.: Eberhardsteiner, J.; Böhm, H.J.; Rammerstorfer, F.G., Publisher: Vienna University of Technology, Austria, ISBN: 978-3-9502481-9-7
302. A. F. Antoniadis, P. Tsoutsanis, D. Drikakis, High-order schemes on mixed-element unstructured grids for aerodynamic flows', 42nd AIAA Fluid Dynamics Conference and Exhibit, Louisiana, New Orleans, USA, 2012.
303. A. Mihaiescu, D. Drikakis, D. L. Youngs, R. J. R. Williams, Comparison of the K-L and K- ϵ Turbulence Models for Compressible Mixing, 13th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM12), Woburn, UK, 2012.
304. L. Könözsy, D. Drikakis: "A Unified Fractional-Step Artificial Compressibility and Pressure-Projection Formulation for Solving Incompressible, Variable Density Mixing Layer Problem", IWPCTM'13, Woburn, UK, 2012, p. 39.
305. T. Oggian, D. Drikakis, D. L. Youngs, R. J. R. Williams, Hybrid compressible-incompressible solution of Richtmyer-Meshkov Instability (RMI) at very-late times, 13th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM12), Woburn, UK, , 2012.
306. M.G. Probyn, B. Thornber, D. Drikakis, R.J.R. Williams, D.L. Youngs, 2D and 3D Single-Mode Richtmyer–Meshkov Instability, International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM13) , 16-20 July, 2012.
307. M.G. Probyn, B. Thornber, D. Drikakis, R.J.R. Williams, D.L. Youngs, An Investigation into Non-Linear Growth Rate of 2D and 3D Single-Mode Richtmyer–Meshkov Instability, Proceedings of the International Turbulence Initiative (iT13), 1-3 October 2012.
308. D. Mantzalis, N. Asproulis and D. Drikakis, "CO2 Diffusion within charged CNTs", 1st European Conference on Gas Micro Flows, Skiathos, Greece, June 2012.
309. D. Mantzalis, N. Asproulis and D. Drikakis, "Simulated CO2 Adsorption In Carbon Nanopores", 1st European Conference on Gas Micro Flows, Skiathos, Greece, June 2012.
310. Z.A. Rana, B. Thornber, D. Drikakis, "Large Eddy Simulation of the Fuel Injection in Scramjet Combustion Chambers", The Proceedings of the 7th Aero-Thermodynamics Symposium (7th-ATD Symp), Brugge (Belgium), 9th May 2011. ESA Special Publication SP-692, paper # 2218933.
311. D. Mantzalis, N. Asproulis and D. Drikakis, "Carbon Nanotubes for filtering of Binary Mixtures", The Thirteenth International Conference on Civil, Structural and Environmental Engineering Computing, Chania, Greece, September 2011.

312. D. Mantzalis, N. Asproulis and D. Drikakis, "Binary Mixtures Filtering through Carbon Nanotubes", The 3rd Micro and Nano Flows Conference, Thessaloniki, Greece, August 2011.
313. D. Mantzalis, N. Asproulis and D. Drikakis, Binary Mixture Filtering using Carbon Nanotubes, The Thirteenth International Conference on Civil, Structural and Environmental Engineering Computing & The Second International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering 6-9 September 2011, Chania - Crete – Greece.
314. D. Drikakis and N. Asproulis, "Computational Uncertainty in Hybrid Atomistic-Continuum Frameworks", In the 3rd Micro and Nano Flows Conference, Thessaloniki, Greece, August 2011.
315. A.F. Antoniadis, K.H. Iqbal, N. Asproulis, E. Shapiro, D. Drikakis. Comparison of high-order Finite Volume and Discontinuous Galerkin methods on 3D unstructured grids, 9th International Conference of Numerical Analysis and Applied Mathematics, Halkidiki, Greece 2011
316. D. Sourmaidou, S. Dufourmantelle, N. Asproulis, D. Drikakis, S. Pal, Oblique shock wave effects on biological membranes, 3rd Micro and Nano Flows Conference, Thessaloniki, Greece, 22-24 August 2011.
317. N. Asproulis, D. Drikakis, Parallel Implementation of Hybrid Atomistic-Continuum Methods, Parallel CFD 2011, Barcelona May 2011
318. P. T. Barton, B. Obadia, D. Drikakis, A conservative level-set based method for compressible solid/fluid problems on fixed grids, 28th International Symposium on Shock Waves, Manchester, 2011.
319. B. Zhong, K.B. Tang, D. Drikakis, S. Guo, "Turbulent Flow Simulations for a High Lift Wing-Body Configuration", 49th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, Orlando, Florida, USA, 2011, AIAA-2011-1043.
320. Z. Rana, D. Drikakis, An ILES Analysis of Transverse Jet Injection into Supersonic Cross-flow with Synthetic Turbulent Boundary Layer, 49th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, Orlando, Florida, USA, 2011, AIAA-2011-0231.
321. Z. Rana, D. Drikakis, , Analysis of Hydrogen Injection into the Combustor of HyShot-II Scramjet Engine Using ILES, 49th AIAA Aerospace Sciences Meeting including the New Horizons Forum and Aerospace Exposition, Orlando, Florida, USA, 2011, AIAA-2011-0506.
322. D. Drikakis(Keynote), E. Shapiro, I. Kokkinakis, C. Papachristou, "Implicit Large Eddy Simulation of Fluid Flow", HEFAT2010, 7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, 19-21 July 2010, Antalya, Turkey.
323. D. Mantzalis, N. Asproulis and D. Drikakis, "Molecular Studies of Self-Diffusion Coefficient for CO₂ Models", 2nd European Conference in Microfluidics, Toulouse, France, December 2010.
324. D. Drikakis, M. Sourmaidou, S. Pal, "Computational Nanotechnology of Drug Delivery through Biological Membranes" ECCM 2010, IV European Conference on Computational Mechanics, Paris des Congrès, Paris, France, May 16-21, 2010.
325. Z.A. Rana, B.J.R. Thornber, D. Drikakis "Investigation of Sonic Jet Mixing in a Stream of Supersonic Transverse Flow Using LES" 27th Congress of the International Council of the Aeronautical Sciences (ICAS-2010), Nice, France, 2010.
326. D. Drikakis, F. Inok, "Computational uncertainty in turbulent flow simulations: Towards a numerical error bar", Proceedings of V European Conference on Computational Fluid Dynamics, ECCOMAS CFD 2010, J. C. F. Pereira and A. Sequeira (Eds), Lisbon, Portugal, 14-17 June 2010.
327. V. Titarev, D. Drikakis, "High-order CFD methods on arbitrary unstructured meshes for complex aerospace configurations", 2010 RAeS Aerodynamics Conference Applied

Aerodynamics: Capabilities and Future Requirements Tuesday 27 – Wednesday 28 July 2010.

328. A. Antoniadis, G. Barakos, A. Brocklehurst, O. Boelens, M. Dietz, D. Drikakis, M. Embacher, W. Khier, T. Renaud, R. Steijl, L. Vigevano, B. Zhong, Assessment of CFD Methods against Experimental Flow Measurements for Helicopter Flows, 36th European Rotorcraft Forum, Paris (France) from 7th to 9th September 2010.
329. V. Titarev, D. Drikakis, "Construction of very high-order accurate methods for Navier-Stokes equations on mixed-element unstructured meshes", ICCFD6 Conference, July 12–16, St. Petersburg, Russia, 2010.
330. B. Zhong, I. Kokkinakis, V. Titarev, A. Kokkalis and D. Drikakis, Analysis of Hot Film Signals and Flow Structure Interactions over a Helicopter Fuselage, 36th European Rotorcraft Forum, Paris (France) from 7th to 9th September 2010.
331. J. Appleyrad, D. Drikakis, "Higher-order CFD and Interface Tracking Methods on GPU and MPI systems", ICFD 10 Conference, 12-15 April, Reading, 2010.
332. R. Ma, B. Zhong, P. Q. Liu, and D. Drikakis, Multi-Objective Optimization Design of Low-Reynolds-Number Airfoils, International Congress of the Aeronautical Sciences (ICAS), Nice, France, September 19-24, 2010
333. P. Tsoutsanis, V. Titarev, D. Drikakis, "Construction of WENO schemes for arbitrary mixed-element unstructured meshes", ICFD 2010 Conference, 12-15 April, Reading, 2010.
334. M. Hahn, D. Drikakis, D.L. Youngs, R.J.R. Williams, "LES of Richtmyer-Meshkov Mixing for inclined material interfaces with realistic surface finish", The 12th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM12), Russia, July 12–17, 2010.
335. D. Drikakis, A.N. Mihaiescu, D.L. Youngs, R.J.R. Williams, "Assessment of Two-Equation Turbulence Models for Rayleigh-Taylor and Richtmyer-Meshkov Mixing", The 12th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM12), Russia, July 12–17, 2010.
336. B. Thornber, D. Drikakis, D.L. Youngs, R.J.R. Williams "Physics of a Re-shocked Three-Dimensional Multimode Richtmyer-Meshkov Turbulent Layer", The 12th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM12), Russia, July 12–17, 2010.
337. S. Tissera, V. Titarev, D. Drikakis, Chemically Reacting Flows around a Double-cone, Including Ablation Effects, AIAA 2010-1285, 48th AIAA Aerospace Sciences Meeting Including the New Horizons Forum and Aerospace Exposition, 4 - 7 January 2010, Orlando, Florida.
338. D. Drikakis (Keynote), M. Hahn, B. Thornber and E. Shapiro, "High-fidelity CFD simulations of instabilities, transition and turbulence using high-order methods and parallel computing, Proceedings of ParCFD2009, NASA Ames, 2009.
339. D. Drikakis (Keynote), N. Asproulis "Multi-scale Computational Modelling of Flow and Heat Transfer", First International Conference on Computational Methods for Thermal Problems, September 8-10, 2009, Naples, Italy.
340. N. Asproulis, D. Drikakis, "Thermal interaction effects in micro and nanofluid flows", Mini-symposium on micro channel flows and heat transfer, First International Conference on Computational Methods for Thermal Problems, September 8-10, 2009, Naples, Italy.
341. Z.A. Rana, B.J.R. Thornber, D. Drikakis, "Simulations of the HyShot-II (Scramjet) Model Using High-Resolution Methods", AIAA 2009-4844, 45th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, 2- 5 August 2009, Denver, Colorado.
342. Z.A. Rana, B.J.R. Thornber, D. Drikakis, "CFD Analysis of a Scramjet Model Using High Resolution Methods" European Air & Space Conference, Manchester, UK. (CEAS-2009).
343. M. Porton, E. Shapiro, D. Drikakis, E. Surrey, "Continuum-Transition Models of Neutraliser Gas Heating", 36th International Conference on Plasma Science and 23rd Symposium on Fusion Engineering, May 31 - June 5, San Diego, California, 2009.

344. A. Mihaiescu, D. Drikakis, D. Youngs, R. Williams, "Turbulence modelling and Large Eddy Simulations for shock-induced instability and transition to turbulence", Turbulent Mixing and Beyond TMB-2009, Abdus Salam International Center for Theoretical Physics, Trieste, Italy, 27 July - 07 August, 2009.
345. B. Thornber, D. Drikakis, D. Youngs, R. Williams, "The Three Dimensional Multimode Richtmyer-Meshkov Instability", Turbulent Mixing and Beyond TMB-2009, Abdus Salam International Center for Theoretical Physics, Trieste, Italy, 27 July - 07 August, 2009.
346. A. Panaras, D. Drikakis, "High-speed unsteady flows around concave axisymmetric bodies: flow instabilities and their suppression," Proc. The 6th European Symposium on Aerothermodynamics for Space Vehicles, Versailles, France, 3-6 November 2008 (ESA SP-659, January 2009).
347. Y. Shimada, B. Thornber and D. Drikakis, "Large Eddy Simulation of Turbulent Jet Flow in Gas Turbine Combustors", TI2009 Second International Conference on Turbulence and Interaction, Karibea Resort Sainte-Luce Sainte-Luce, Martinique, 31st May - 5th June, 2009.
348. M. Kalweit, D. Drikakis, "Multiscale simulation strategies and mesoscale modelling of gas and liquid flows", 2nd Micro and Nano Flows Conference, 1-2 September 2009.
349. B. Zhong, F. Scheurich, V. Titarev, D. Drikakis, "Turbulent Flow Simulations Around a Multi-Element Airfoil Using URANS, DES, and ILES Approaches", AIAA paper 2009-3799, 19th AIAA Computational Fluid Dynamics Conference, San Antonio, Texas, 22-25 June, 2009.
350. Xiao Wang, B. Zhong, S. Guo, D. Drikakis, "Turbulent Flow Simulations For Tip Vortices Of Subsonic/Transonic Wings With Or Without Winglets", 3rd European Conference for AeroSpace Sciences (EUCASS), Versailles, France, 6-9 July 2009.
351. M. Lai, D. Drikakis "Molecular Dynamics investigation of salt-dependent diffusion coefficients of ssDNA oligomers in aqueous solution", 1st International Conference on Mathematical and Computational Biomedical Engineering - CMBE2009, June 29 - July 1, 2009, Swansea, UK.
352. M. Lai, D. Drikakis, "Notes on the implementation of Brownian motion in mesoscopic fluid-particle models", 7th Industrial Simulation Conference, ISC'2009, June 1-3, 2009, Loughborough, UK.
353. N. Asproulis, M. Kalweit and D. Drikakis, "Hybrid molecular-continuum methods for micro- and nanoscale liquid flows", 2nd Micro and Nano Flows Conference, 1-2 September 2009.
354. M. Benke, E. Shapiro, D. Drikakis "Modelling the polymer migration phenomena in DNA-laden flows", 2nd Micro and Nano Flows Conference, 1-2 September 2009.
355. D. Drikakis, C. Milionis, S. Pal, S. Patel and E. Shapiro, "Evaluation of computational and analytical models for blood perfusion in perforator flaps", Proceedings of the 1st International Conference on Mathematical and Computational Biomedical Engineering CMBE2009, June 29 - July 1, 2009, Swansea, UK.
356. S. Loiodice, D. Drikakis, A. Kokkalis, "Influence of vortex models on the prediction of 2D airfoil vortex interaction" 34th European Rotorcraft Forum 2008, Liverpool, 2008.
357. N. Asproulis, M. Benke, M. Lai, E. Shapiro, D. Drikakis, D. Brown, M. Dawson, G. Pollard, P. Ioannou, V. Pouloupoulos, "Modelling approaches for micro- and nanoscale diffusion phenomena", Proceedings of the 1st International Conference on Process Intensification and Nanotechnology, 15-18 Sept 2008, Albany, New York, USA.
358. B. Zhong, S. K. Yadav, D. Drikakis, "Turbulent flow simulations around an airfoil at high incidences using RANS, DES and ILES approaches" Proceedings of ERCOFTAC WORKSHOP on Direct and Large-Eddy Simulations (DLES7), University of Trieste - Abdus Salam International Centre for Theoretical Physics Trieste - Italy, September 8-10, 2008.
359. N. Asproulis, M. Kalweit and D. Drikakis, "A Hybrid Molecular Continuum Method using Point Wise Coupling", Proceedings of the Sixth International Conference on Engineering

- Computational Technology, Eds. B. Topping and M. Papadrakakis, Civil-Comp Press, 2008.
360. D. Drikakis, A. Mosedale, D. Youngs, R. Williams, "Large Eddy Simulation of Compressible Turbulent Mixing for Large-Scale Initial Perturbations", 11th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM11), Santa Fe, 2008
 361. B. Thornber, D. Drikakis, D. Youngs, R. Williams, "On the Influence of Initial Conditions on the Richtmyer-Meshkov Instability", 11th International Workshop on the Physics of Compressible Turbulent Mixing (IWPCTM11), Santa Fe, 2008.
 362. J. Milnes, D. Drikakis, "Assessment of RANS/URANS models for Hypervapotron flow and heat transfer", 25th Symposium on Fusion Technology (SOFT 2008): SOFT 97, 15-19 September, Rostock, Germany 2008.
 363. J. Milnes, D. Drikakis "Advanced CFD Strategies for Hypervapotron Flows and Heat Transfer", IMechE Workshop Computational Fluid Dynamics Validation - How Much is Enough?, 2008.
 364. M Benke, E Shapiro, D Drikakis, "An efficient meta-modelling approach for DNA transport in micro and nanofluidics", Proceedings of the 1st International Conference on Nanotechnology, September 2008, Albany, New York, USA
 365. N Asproulis, M Benke, M Lai, E Shapiro, D Drikakis, "Modelling approaches for micro and nanoscale diffusion phenomena", Proceedings of the 1st International Conference on Nanotechnology, September 2008, Albany, New York, USA
 366. N. Asproulis, M. Kalweit, E. Shapiro and D. Drikakis, "Mesoscale flow and heat transfer modelling and application to liquid and gas flow", In Nanoscience and Nanotechnology Conference, Rome, Italy, October 2008
 367. M. Benke, E. Shapiro, D. Drikakis "FALCO - Fast Linear Corrector for Modelling DNA-laden Flows", Proceedings of the ASME 6th International Conference on Nanochannels, Microchannels and Minichannels, Paper ICNMM2008-62131, Darmstadt, June 23-25, 2008.
 368. N. Asproulis, E. Shapiro, M. Kalweit, D. Drikakis, Multiscale modelling for flows and materials, Cranfield MultiStrand Conference, 6-7th May, 2008, Cranfield, UK
 369. M. Benke, D. Drikakis, E. Shapiro, "Computational Nanotechnology for Biological Micro and Nanofluidics", Cranfield MultiStrand Conference, 6-7th May, 2008, Cranfield, UK
 370. P. Tsoutsanis, V. Titarev, D. Drikakis, "Very High-Order Godunov-Type Methods on Unstructured Hexahedral Meshes in Three Space Dimensions", 5th European Congress on Computational Methods in Applied Sciences and Engineering ECCOMAS 2008, Venice, Italy, 30 June - 4 July, 2008.
 371. M. Benke, D. Drikakis, E. Shapiro, "New simulation tool for bio-nanofluidics", Cranfield Multi-Strand Conference, 6-7 May 2008.
 372. M. Kalweit, N. Asproulis, and D. Drikakis, "Nanofluidic applications of hybrid molecular-continuum methods", Proceedings of the 1st International Conference on Nanotechnology, September 2008, Albany, New York, USA.
 373. Z. Zachariadis, D. Drikakis, E. Shapiro, "Computational Analysis of Advanced Aerofoil", Cranfield MultiStrand Conference, 6-7th May, 2008, Cranfield, UK
 374. C. Papachristou, E. Shapiro and D. Drikakis, "Turbulence Modelling of Contaminant Dispersion in Environmental Flows", Cranfield MultiStrand Conference, 6-7th May, 2008.
 375. A. Milonas, E. Shapiro and D. Drikakis, "Turbulent Flows in the Internal Environment: the case of the A380 Aircraft Cabin", Cranfield MultiStrand Conference, 6-7th May, 2008, Cranfield, UK.
 376. A. Mosedale, D. Drikakis, "Sensitivity to initial conditions of high-resolution and high-order LES schemes", Workshop on Quality and Reliability of Large Eddy Simulations, 24-26 October 2007, Leuven, Belgium.
 377. M. Hahn, D. Drikakis, "Assessment of LES for separated internal flow", Paper 2008-0667, 46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada 7-10 January 2008.

378. B. Thornber, D. Drikakis, "LES of compressible deep cavity flows using high-resolution methods", Paper 2008-0730, 46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada 7-10 January 2008.
379. M. Hahn, D. Drikakis, "Large-eddy simulation for swept wing flow using high-resolution methods", Paper 2008-0669, 46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada 7-10 January 2008.
380. E. Quaranta, G. Pantazopoulou, D. Drikakis "Acoustic modelling of engine compressor using a Boundary Element Method," 2nd European Conference for Aerospace Sciences, Brussels, Turbomachinery Session, July 1-6, 2007.
381. S. Loiodice, D. Drikakis, A. Kokkalis "A Novel Aeroacoustic formulation applied to Helicopter" 33rd European Rotorcraft Forum, 2007.
382. N. Epiphaniou, M. Kalweit, D. Drikakis, G. Ball "Molecular Dynamics Simulations of Dynamic Friction and Mixing at Rapidly Moving Interfaces," Conference on Numerical methods for multi-material fluid flows, Czech Technical University in Prague on September 10-14, 2007.
383. E. Romensky, D. Drikakis, "Conservative Formulation and Numerical Methods for Multiphase Compressible Media," Conference on Numerical methods for multi-material fluid flows, Czech Technical University in Prague on September 10-14, 2007.
384. D. Drikakis, M. Hahn, A. Mosedale, E. Shapiro, B. Thornber, "Computational Uncertainty in CFD Associated with Spatial and Temporal Discretisation and Non-linear Methods Design" RTO AVT-147 Symposium in Athens, Greece, 1-4 October 2007.
385. C. Thornber, D. Drikakis, "Numerical Dissipation of Godunov Schemes in Low Mach Flows", ICFD 2007 Conference Proceedings, 2007.
386. E. Romenski, D. Drikakis, "Numerical Methods for Compressible Two-Phase Flow and Thermodynamically Compatible Systems of Hyperbolic Conservation Laws", ICFD 2007 Conference Proceedings, 2007.
387. A. Mosedale, D. Drikakis, "Very high-order finite volume methods for multi-component flows," ICFD 2007 Conference Proceedings.
388. B. Thornber, A. Mosedale, D. Drikakis, "Large-eddy simulation of Richtmyer-Meshkov Instability using High Resolution Methods", Turbulent Shear Flow Phenomena (TSFP7) Conference, 2007.
389. O.J. Boelens, G. Barakos, M. Biava, A. Brocklehurst, M. Costes, A. D'Alascio, M. Dietz, D. Drikakis, J. Ekaterinaris, I. Humby, W. Khier, B. Knutzen, F. Le Chuiton, K. Pahlke, T. Renaud, T. Schwarz, R. Steijl, L. Sudre, L. Vigevano, B. Zhong, "The blind-test activity of the GOAHEAD project", 33rd European Rotorcraft Forum, 2007.
390. F. Grinstein, D. Drikakis, C. Fureby, D. Youngs, "Transition and Turbulence Decay in the Taylor-Green Vortex," AIAA-2006-0698, 44th AIAA Aerospace Sciences Meeting and Exhibit, 2006.
391. S. Patel, D. Drikakis, "Large Eddy Simulations of Transitional and Turbulent Flows in Synthetic Jet Actuators", IUTAM symposium on flow control and MEMS, Imperial College, 19 - 22 September 2006.
392. S. Patel, D. Drikakis, "Large Eddy Simulations of Synthetic Jet Actuators" European Drag Reduction and Flow Control Meeting, Orlandi, Choi & Leonardi, Ischia, Italy, 10th-14th April 2006.
393. G. Bernardini, H. Brouwera, L.M.B.C. Campos, D. Drikakis, M. Gennaretti, M. Hounjeta, A. Kokkalis, F. Laub, S. Loiodice, G. Perez, R. Ponza, "Assessment of computational tools for rotor blade induced noise", Paper AC04, Proceedings of the 32nd European Rotorcraft Forum, Maastricht, The Netherlands, 12th-14th September 2006.
394. E. Shapiro, D. Drikakis, J. Gargiuli, P. Vadgama, "Interface capturing in dual-flow microfluidics", CD-Rom Proceedings of the ECCOMAS CFD 2006 Conference, 5-8 September, 2006 Egmond aan Zee, The Netherlands.
395. E. Shapiro, D. Drikakis, J. Gargiuli, P. Vadgama, "Microfluidic Cell Optimization for Polymer Membrane Fabrication", Proceedings of the ASME ICNMM 2006, 4th

- International Conference on Nanochannels, Microchannels and Minichannels, 19-21, June, 2006, Limerick, Ireland.
396. B. Thornber, D. Drikakis, D. Youngs, "Large-eddy simulation of multi-component compressible turbulent flows using high resolution methods", Proceedings of the Conference on Turbulence and Interactions TI2006, May 29 - June 2, 2006, Porquerolles, France.
 397. B. Thornber, D. Drikakis, "Large Eddy Simulation of Isotropic Homogeneous Decaying Turbulence", CD-Rom Proceedings of the ECCOMAS CFD 2006 Conference, 5-8 September, 2006 Egmond aan Zee, The Netherlands.
 398. B. Thornber, D. Drikakis, "ILES of Shock Waves and Turbulent Mixing Using Riemann Solvers and TVD Methods", CD-Rom Proceedings of the ECCOMAS CFD 2006 Conference, 5-8 September, 2006 Egmond aan Zee, The Netherlands.
 399. S. Patel, D. Drikakis, "Flux Limiting Schemes for Implicit Large Eddy Simulation of Synthetic Jets", Proceedings of The Fourth International Conference on Computational Fluid Dynamics, Ghent, Belgium, 10-14 July, 2006.
 400. G. Pantazopoulou, D. Drikakis, "Computational Modelling of Acoustic Scattering from a Cylindrical Duct with a Rotor into Uniform Mean Flow", CD-Rom Proceedings of the ECCOMAS CFD 2006 Conference, 5-8 September, 2006 Egmond aan Zee, The Netherlands.
 401. S. Patel, D. Drikakis, "Large Eddy Simulation of Bifurcating and Transitional Suddenly Expanded Flows", CD-Rom Proceedings of the ECCOMAS CFD 2006 Conference, 5-8 September, 2006 Egmond aan Zee, The Netherlands.
 402. D. Drikakis, C. Fureby, F. Grinstein, M. Hahn and D. Youngs, "MILES of transition to turbulence in the Taylor-Green vortex system", Proceedings of ERCOFTAC Workshop, Direct and Large Eddy Simulation-6, p. 133, (eds. Friedrich et al.) Poitiers, France, 2006.
 403. D. Drikakis, C. Fureby, F. Grinstein, M. Hahn and D. Youngs, "Transition and Turbulence Decay in the Taylor-Green Vortex", APS Meeting, Session Turbulence Simulations, Paper LP.00005, Chicago, 20-22 November, 2005.
 404. E. Shapiro, D. Drikakis, "Characteristics-based formulations for variable density incompressible flows with an arbitrary number of transported scalars", 13th Conference on Finite Element for Flow Problems, Swansea, 2005.
 405. E. Shapiro, D. Drikakis, "Characteristics-Based Formulations for Variable Density Incompressible Flows with an Arbitrary Number of Transported Scalars", Finite Element for Flow Problems, FEF05 IACM Special Interest Conference supported by ECCOMAS, 4-6 April, 2005, Swansea, Wales, UK.
 406. M. Hahn, D. Drikakis "Implicit large eddy simulation of turbulent flows using high-resolution methods," AIAA 2005-1285, AIAA Conference, Reno, Nevada, 2005.
 407. E. Shapiro, D. Drikakis, "High-Resolution Computational Modelling for Multi-material Flows", Proceedings of 3rd MIT Conference on Computational Fluid and Solid Mechanics, Elsevier, 2005.
 408. M. Hahn, D. Drikakis, "Implicit Large Eddy Simulation for Unsteady Turbulent Flows", NATO Symposium on Flow-Induced Unsteady Loads and the Impact on Military Applications, Budapest, Hungary, 25-29 April 2005.
 409. S. Patel, D. Drikakis "Effects of Preconditioning on the Accuracy and Efficiency of Incompressible Flows", CD-Rom Proceedings ICFD Conference, Oxford, 2004.
 410. M. Hahn, D. Drikakis, "Large Eddy Simulation of Compressible Turbulence Using High-Resolution Methods", CD-Rom Proceedings ICFD Conference, Oxford, 2004.
 411. S. Patel, D. Drikakis, "Prediction of flow instabilities and transition using high-resolution methods", CD-Rom Proceedings of the ECCOMAS Congress 2004.
 412. M. Kalweit, D. Drikakis "Computational Nanoclusters", CD-Rom Proceedings of the ECCOMAS Congress 2004.
 413. S. Patel, D. Drikakis "Numerical Effects on the Prediction of Flow Instabilities in Channels with Sudden Expansions", Proceedings of IMECE'03, 2003 ASME International

- Mechanical Engineering Congress & Exposition, Washington, D.C., November 16-21, 2003.
414. S. Patel, D. Drikakis "Fluid Flow Bifurcation in Micro-Channels", Proceedings of IMECE'03, 2003 ASME International Mechanical Engineering Congress & Exposition, Washington, D.C., November 16-21, 2003.
 415. G. Barakos and D. Drikakis, "Numerical modelling of fluid-structure interaction problems" in Progress in Computational Flow-Structure Interaction, eds. W. Haase, V. Selmin and B. Winzell, Notes on Numerical Fluid Mechanics and Multidisciplinary Design, Vol. 81, 125-132, Springer 2002.
 416. D. Drikakis, F.A. Fooker, D. Vassileva, "Computation of Compressible Cavity Flows Using High Resolution Methods", Proceedings of the CEAS Aerospace Aerodynamics Research Conference, June 2002, Cambridge, UK.
 417. D. Drikakis, P.K. Smolarkiewicz, L. Margolin, "'Spurious' Eddies", (7 pages) Proceedings of ICFD Conference on Numerical Methods for Fluid Dynamics, (ed M.J. Baines), pp. 289-296, Oxford Univ. Computing Laboratory, 26-29 March 2001.
 418. D. Drikakis "Numerical Issues in Very Large Eddy Simulation", (20 pages) Proceedings of the ECCOMAS CFD Conference 2001, Swansea, Sept. 2001. G. Barakos and D. Drikakis, "NACA64A010 2DOF Aerofoil" in Progress in Computational Flow-Structure Interaction, eds. W. Haase, V. Selmin and B. Winzell, Notes on Numerical Fluid Mechanics and Multidisciplinary Design, Vol. 81, 343-350, Springer 2002.
 419. F. Mallinger, D. Drikakis "Shear Instability in Post-Stenotic Arterial Flows", Proceedings of Turbulence Shear Flow Phenomena 2 Conference, 2001.
 420. F. Mallinger, D. Drikakis "Turbulence in Pulsatile Flow Through a Stenosis", Proceedings of the Int. Workshop on Breaking Symmetry in Haemodynamics, London (2001).
 421. G. Barakos and D. Drikakis, "NACA0012 Aerofoil, 2D Steady and Unsteady" in Progress in Computational Flow-Structure Interaction, eds. W. Haase, V. Selmin and B. Winzell, Notes on Numerical Fluid Mechanics and Multidisciplinary Design, Vol. 81, 225-236, Springer 2002.
 422. G. Barakos and D. Drikakis, "NACA0012 Wing Steady and Unsteady" in Progress in Computational Flow-Structure Interaction, eds. W. Haase, V. Selmin and B. Winzell, Notes on Numerical Fluid Mechanics and Multidisciplinary Design, Vol. 81, 243-250, Springer 2002.
 423. P. Neofitou, D. Drikakis "Non-Newtonian Modelling Effects on Stenotic Channel Flows," Proceedings of the ECCOMAS CFD Conference 2001, Swansea, Sept. 2001.
 424. F. Mallinger, D. Drikakis "Direct Numerical Simulation of Pulsatile Flows in Three-Dimensional Arterial Stenoses," Proceedings of the First MIT Conference on the Computation of Fluids and Structures, (2001).
 425. D. Drikakis, O. Iliev, D. Vasileva "On Multigrid Methods for the Compressible Navier-Stokes Equations," 3rd International Conference on "Large-Scale Scientific Computations" June 6-10, 2001, Bulgaria.
 426. D. Drikakis "A Memory Integral Model for Large Eddy Simulation," Proceedings of the ECCOMAS CFD Conference 2001, Swansea, Sept. 2001.
 427. A. Bagabir and D. Drikakis "Comparative Study of HLL, HLLC and Hybrid Riemann Solvers in Unsteady Compressible Flows," In Godunov Methods: Theory and Applications, Kluwer Academic Publishers, (ed. E.F. Toro), pp. 69-75, accepted, in press (2001).
 428. D. Drikakis and A. Bagabir "On Godunov-type Methods for Low Mach Number Flows," Invited paper, CD-Rom Proceedings of the ECCOMAS Conference, Forum: "Low Mach Number Flows", Barcelona, 2000.
 429. D. Drikakis and G. Barakos "Numerical Developments in Unsteady Aerodynamic Flows," Invited paper, CD-Rom Proceedings of the ECCOMAS Conference, Forum: "CFD in Aeronautics", Industrial Technology Session organised by CEC, Barcelona, 2000.

430. G. Barakos, D. Drikakis, "Effects of turbulence closures on the prediction of buffeting flows", Proceedings of the Aerodynamics Conference 2000, Royal Aeronautical Society, pp. 1-14, 2000.
431. J. Rokicki, J. Zoltak, D. Drikakis, J. Majewski, "Parallel overlapping-mesh algorithm", Invited paper, Applications of High-Performance Computing in Engineering VI, eds. M. Ingber, H. Power and C.A. Brebbia, pp. 335-344, WIT Press 2000.
432. D. Drikakis, O. Iliev, D. Vassileva "An adaptive-smoothing multigrid method for the Navier-Stokes equations," Lecture Notes in Computational Science and Engineering, (eds. E. Dick et al.), Springer, pp. 94-100, 2000.
433. A. Bagabir, D. Drikakis "On the Richtmyer-Meshkov instability produced by blast-wave propagation in an enclosure," Proceedings of the 22nd Symposium on Shock Waves, eds. G.J. Ball et al., pp. 865-870, 1999.
434. A. Bagabir, D. Drikakis "Shock-diffraction phenomena and coherent structures during the interaction of a shock wave with a bubble," Proceedings of the 22nd Symposium on Shock Waves, eds. G.J. Ball et al., pp. 1059-1064, 1999.
435. O. Goyon, D. Drikakis, M.A. Leschziner "Computation of 3D unsteady flows with moving boundaries using hybrid-unstructured grids and non-linear eddy-viscosity turbulence models," ASME Paper FEDSM99-7013, CD-Rom Proceedings of ASME Fluids Engineering Division, Summer Meeting, July 18-23, San Francisco, 1999.
436. J. Rokicki, D. Drikakis, J. Majewski, J. Zoltak "Parallel Performance of Chimera Overlapping Mesh Technique," in High Performance Computing and Networking (eds. P. Sloot et al.), Lecture Notes in Computer Science 1593, pp. 1015-1024, Springer, 1999.
437. G. Barakos and D. Drikakis "Numerical Simulation of Transonic Buffet Flows Using Various Turbulence Closures," Proceedings of the First International Symposium on Turbulence and Shear Flow Phenomena, pp. 995-1000, eds. S. Banerjee and J.K. Eaton, Begell House Inc., 1999.
438. A. Spentzos, D. Drikakis "Study of flow stability using direct numerical simulation of the disturbance equations," Proceedings of the Institute of Mathematics Conference "Cardiovascular Flow Modelling and Measurement with Application to Clinical Medicine," (7-9 September 1998, Salford UK), eds S.G. Sajjadi, G.B. Nash, M.W. Rampling, 8 pages, 1999.
439. P. Neofitou, D. Drikakis, M.A. Leschziner, "Study of Newtonian and non-Newtonian fluid flow in a channel with a moving indentation," Proceedings of the Institute of Mathematics Conference "Cardiovascular Flow Modelling and Measurement with Application to Clinical Medicine," (7-9 September 1998, Salford UK), eds S.G. Sajjadi, G.B. Nash, M.W. Rampling, 8 pages, 1999.
440. G. Barakos, D. Drikakis "Numerical study of unsteady aerodynamic flows," 1999 Royal Aeronautical Society Aerodynamics Research Forum, Book of abstracts, page 24, January 1999.
441. A. Bagabir, D. Drikakis, "Study of flow instabilities and coherent structures in blast wave flows," 1999 Royal Aeronautical Society Aerodynamics Research Forum, Book of abstracts, page 28, January, 1999.
442. G. Barakos, D. Drikakis, M.A. Leschziner, "Numerical investigation of the dynamic stall phenomenon using non-linear eddy-viscosity models," Invited paper, AIAA Paper 98-2740, Proceedings of the 16th Applied Aerodynamics Conference, June 15-18, 1998, Albuquerque, New Mexico.
443. D. Drikakis, "The equations for the coherent structures dynamics in turbulent flows," ASME Paper FEDSM98-4951, Proceedings of the 1998 ASME Fluids Engineering Division, Summer Meeting, June 21-25, Washington DC, 1998.
444. D. Drikakis, J. Zoltak, "An implicit hybrid flux vector splitting scheme for unsteady flows with strong shock waves," ASME Paper FEDSM98-4925, Proceedings of the 1998 ASME Fluids Engineering Division, Summer Meeting, June 21-25, Washington DC, 1998.
445. O. Goyon, D. Drikakis, M.A. Leschziner, "Three-dimensional unsteady Navier-Stokes computations using hybrid unstructured grids," ASME Paper FEDSM98-4924,

- Proceedings of the 1998 ASME Fluids Engineering Division, Summer Meeting, June 21-25, Washington DC, 1998.
446. D. Drikakis and A. Spentzos "Study of flow bifurcation phenomena using a parallel characteristics based method," *Parallel Computational Fluid Dynamics: Recent Developments and Advances Using Parallel Computers*, Elsevier Science B.V., eds. D. Emerson et al., pp. 317-324, 1998.
 447. D. Drikakis, O.P. Iliev and D.P. Vassileva "A multigrid algorithm for the artificial compressibility formulation of the 3D Navier-Stokes equations," *Notes on Numerical Fluid Mechanics*, Vol. 62, eds. M. Griebel et al., Friedr. Vieweg & Sohn Verlag., pp. 260-268, 1998.
 448. G. Barakos, D. Drikakis "Study of unsteady aerodynamic flows using advanced turbulence models," 1998 Royal Aeronautical Society Aerodynamics Research Forum, Book of abstracts, pp. 10, January, 1998.
 449. G. Barakos, D. Drikakis, "Unsteady separated flow over manoeuvring lifting surfaces," *EUROMECH Colloquium 384: on Steady and Unsteady Separated Flows*, Manchester, UK, July 6-9, 1998.
 450. G. Barakos, D. Drikakis "Validation of linear and non-linear low-Re turbulence models in shock boundary layer interaction," *Proceedings of the 11th Symposium on Turbulent Shear Flows*, Grenoble, France, September 8-11, Vol. 3, pp. 32-19--32-24, 1997.
 451. B. De Maio, G. Barakos, D. Drikakis "Investigation of the near wall behaviour of low-Re turbulence models," *Numerical Methods in Laminar and Turbulent Flow*, eds. C. Taylor & J. Cross, Vol X, pp. 275-283, Pineridge Press, 1997.
 452. D. Drikakis "Advanced Computational Methods for Simulation of Shock Waves and Fluid-Structure Interaction," *Proceedings of Workshop of Simulation of Underwater Explosions Phenomena*, DERA (organiser Bob Haxton), Dunfermline, 27-29 May 1997.
 453. G. Barakos, D. Drikakis "Shock wave boundary layer interaction: Validation of linear and non-linear low-Re turbulence models in conjunction with new implicit methods," 1997 Royal Aeronautical Society Aerodynamics Research Forum, Book of abstracts, pp. 17, January, 1997.
 454. J. Majewski, J. Rokicki, J. Zoltak, D. Drikakis "Parallelisation of overlapping mesh techniques for compressible flows," *Applications of High Performance Computing in Engineering V*, (eds. H. Power, J.J.C. Long), Series *Advances in High performance Computing*, Volume 3 (ed. H. Power), pp. 235-244, Publisher Computational Mechanics Publications (Southampton and Boston), 1997.
 455. L. Temmerman, G. Barakos, D. Drikakis "Simulation of Bingham-Plastic Flow by an Upwind Finite Volume Characteristics-Based Method," ASME Paper FEDSM97-3037, *Proceedings of the 1997 Fluids Engineering Division, Summer Meeting*, Vancouver, Canada, June 22-26, 1997.
 456. G. Barakos, D. Drikakis "Simulation of unsteady aerodynamic flows using low-Re wall-distance-free turbulence models," ASME Paper FEDSM97-3651, *Proceedings of the 1997 Fluids Engineering Division, Summer Meeting*, Vancouver, Canada, June 22-26, 1997.
 457. D. Drikakis, U.C. Goldberg "Validation of low-Re two- and three-equation wall-distance-free turbulence models," ASME Paper FEDSM97-3149, *Proceedings of the 1997 Fluids Engineering Division, Summer Meeting*, Vancouver, Canada, June 22-26, 1997.
 458. J. Majewski, J. Rokicki, J. Zoltak, D. Drikakis "Development of overlapping mesh technique for implicit Riemann solvers," *Proceedings of the Second Seminar on Recent Research and Design Progress in Aeronautical Engineering and its Influence on Education*, ed. Z. Goraj, published by the Inst. of Aeronautics and Applied Mech. at Warsaw Univ. of Technology, Research Bulletin No. 6, pp. 237-242, 1997.
 459. D. Drikakis, R. Zahner "Investigation of the efficiency of a 3D Parallel Implicit and Multiblock Navier-Stokes Solver," *Parallel Computational Fluid Dynamics: Algorithms and Results using Advanced Computers*, eds. P. Schiano et al., Elsevier Science B.V., pp. 289-296, 1997.

460. D. Drikakis "Study of Compressible Flow Bifurcation Phenomena in Sudden Expansions," *Computational Fluid Dynamics'96*, pp. 312-318, (eds. Desideri et al.), John Wiley & Sons Ltd., 1996.
461. D. Drikakis, D. Ofengeim "Study of Unsteady Viscous Flows with Shock-Waves Using Adaptive-Grid Solvers," *Proceedings of the First International Symposium on Finite Volumes for Complex Applications*, eds. F. Benkhaldoun & R Vilsmeier, pp. 651-659, Hermés Publisher, Paris, 1996.
462. G. Barakos, D. Drikakis "A Strongly Implicit Finite Volume Method for Complex Turbulent Flows," *Proceedings of the First Int. Symposium on Finite Volumes for Complex Applications*, eds. F. Benkhaldoun & R Vilsmeier, pp. 459-467, Hermés Publisher, Paris, 1996. D. Ofengeim, E. Timofeev, A. Galyukov, P. Voinovich, D. Drikakis, N. Satofuka "A Locally Adaptive Structured/Unstructured 2D/3D Navier-Stokes Finite Volume Solvers for Steady and Unsteady Compressible Flows," *Computational Fluid Dynamics'96*, pp. 187-192, eds. Desideri et al., John Wiley & Sons Ltd., 1996.
463. D. Drikakis, G. Papadopoulos "Experimental and Numerical Investigation of Laminar-to-Transitional Pipe Flow Past a Sudden Expansion," *Proceedings of the 1996 ASME Fluids Eng. Division, Summer Meeting, San Diego, California, July 7-11, 1996, Vol. 2*, pp. 679-684.
464. D. Drikakis, R. Zahner "Study of Incompressible Flows in Rectangular Channels Using High Order Schemes and Parallel Computing," *Notes on Numerical Fluid Mechanics, Vol. 53*, pp. 52-59, eds. M Deville & S. Gavrilakis, Vieweg, Braunschweig, 1996.
465. G. Barakos, D. Drikakis "Implicit methods and wall-distance-free turbulence models for unsteady flows over oscillating aerofoils," *Proceedings of European Mechanics Colloquium 349 on Simulation of Fluid-Structure Interaction in Aeronautics*, pp 1-9, 16-18 Sept., DLR Germany, 1996.
466. D. Drikakis "Development and Implementation of Parallel High Resolution Schemes in 3D Flows over Bluff Bodies," *Parallel Computational Fluid Dynamics: Implementation and Results Using Parallel Computers*, eds. A. Ecer, J.Periaux, N. Satofuka and S. Taylor, pp. 191-198, Elsevier Science B.V., 1995.
467. D. Drikakis, R. Zahner "A Parallel Multiblock Method for 3D Incompressible Flows in Complex Geometries," *Applications of High Performance Computing in Engineering*, eds. H. Power, Computational Mechanics Publications, pp. 211-218, 1995.
468. L. Skerget, D. Drikakis "A Boundary Element Method for Velocity-Vorticity and Comparison with a High Order Finite Volume Scheme," *Computational Mechanics'95: Theory and Applications, Vol. 2*, Springer Verlag, pp. 2921-2926, eds. S.N. Alturi et al., 1995.
469. D. Drikakis, F. Durst "Computation of Aerodynamic Flows Using Improved Parallelization Procedures," *Parallel Computational Fluid Dynamics: New Trends and Advances*, pp. 109-117, (eds. A. Ecer et al.), Elsevier Science B.V., 1995.
470. D. Drikakis, L. Skerget "A Study of the Accuracy and Efficiency of Finite Volume and Boundary Element Methods in Laminar Separated Flows," *Computational Mechanics'95: Theory and Applications, Vol. 2*, Springer Verlag, pp. 2969-2974, eds. S.N. Alturi et al., 1995.
471. D. Drikakis, F. Durst "Study of Extended Flow Separation on Parallel Machines," *Notes on Numerical Fluid Mechanics, Vol. 47* (eds. F. K. Hebeker et al.), pp. 62-69, Friedr. Vieweg & Sohn Verlag, 1994.
472. D. Drikakis, M. Schäfer "Comparison between a pressure correction method and an artificial compressibility/characteristic based method in parallel incompressible fluid flow computations," *Computational Fluid Dynamics' 94*, eds. S. Wagner et al., John Wiley & Sons, pp. 619-626, 1994.
473. D. Drikakis "Die Entwicklung von 3D inkompressiblen und kompressiblen Navier-Stokes Verfahren in der numerische Aerodynamik," *7th STAB Workshop im DLR Forschungszentrum Göttingen, 10-12 November*, pp. 277-279, ed. H.-J. Heinemann, Geschäftsstelle der AG STAB, 1994.

474. D. Drikakis, "Parallel Upwind High-Order Methods," Proceedings of the EUROMECH Colloquium 315 on Efficient Numerical Methods and Parallel Computing in Fluid Mechanics, 7-9 March 1994, Erlangen, Germany.
475. D. Drikakis, E. Schreck, F. Durst "A Comparative Study of Numerical Methods for Incompressible and Compressible Flows on Different Parallel Machines," AIAA Paper 94-0412, Proceedings of the 32nd AIAA Conference, Aerospace Sciences Meeting, Reno, Nevada, January 10-13, 1994.
476. D. Drikakis, F. Durst "Numerical simulation of three-dimensional incompressible flows by using high order schemes," Proceedings of the Second Summer Conference on Numerical Modelling in Continuum Mechanics: Theory, Algorithms, and Applications, pp. 79-88 (Vol. II), eds. M. Feistauer, R. Rannacher & K. Kozel, Charles University, Prague, August 22-25, 1994.
477. D. Drikakis, F. Durst "Numerical Investigation of Viscous Compressible Flows with Separation on Parallel Computers," Proceedings of the German Aeronautics and Aerospace Congress 1994, published by DGLR, ed. G. Buergener, Paper 94-C2-049, Vol. I, pp. 347-405, 1994.
478. D. Drikakis, E. Schreck "Development of Implicit Navier-Stokes Methods on MIMD Multi-Processor Systems," AIAA Paper 93-0062, Proceedings of the 31st AIAA Conference, Aerospace Sciences Meeting, Reno, Nevada, 11-14 January, 1993.
479. F. Durst, D. Drikakis, M. Schäfer "Parallelisierung effizienter Berechnungsverfahren von Aerodynamischen Strömungen auf modernen Rechnerarchitecturen," 6th STAB Workshop im DLR Forschungszentrum Göttingen, 10-12 November, pp. 277-279, ed. H.-J. Heinemann, Geschäftsstelle der AG STAB, 1993.
480. D. Drikakis, F. Durst "Numerical Study of Transonic Turbulent Separated Flows," Proceedings of 9th Symposium on Turbulent Shear Flows, Vol. 2, pp. 203-1--203-4, Kyoto, Japan, August 16-18, 1993.
481. D. Drikakis, E. Schreck "Parallel Multi-Level Calculations for Viscous Compressible Flows," Proceedings of the 1993 ASME Fluids Engineering Conference June 20-24, Washington, DC, FED-Vol. 156, pp. 9-23, CFD Algorithms and Applications for Parallel Processors, eds. O. Baysal, and V. Saxena, Book No. H00796-1993, 1993.
482. D. E. Panayotounakos, D. Drikakis "Closed-form solutions of the wave, diffusion and Burger's equation with source terms in fluid mechanics," XVIIIth Int. Congress of Theoretical and Applied Mechanics by IUTAM, Haifa, Israel, August 22-28, 1992.
483. D. Drikakis, E. Schreck "Parallel numerical methods for incompressible and compressible flows," Proceedings of GAMM Workshop: Parallel solution methods for differential equations, Heidelberg, Germany, 6-7 November, 1992.
484. D. Drikakis, S. Tsangaris "A multi-zonal local solution methodology for the accelerated solution of the Navier-Stokes equations," Proceedings of the 18th ICAS Congress, Paper ICAS-92-4.5.3, pp. 1012--1021, 1992.
485. D. Drikakis, S. Tsangaris "On the accuracy and efficiency of CFD methods in real gas hypersonics," AGARD Conference Proceedings Vol. 514: Theoretical and Experimental Methods in Hypersonic Flows, pp. 401--40-15, 1992.
486. D. E. Panayotounakos, D. Drikakis "Analytical Solutions of the Non-Linear 2D and 3D Axisymmetric Perturbation Equations in Aerodynamics," Proceedings of the 3rd National Congress on Mechanics, published by Hellenic Society for Theoretical and Applied Mechanics (ed. P.S. Theocharis), pp. 1-9, Athens, 1992.
487. G. Despotis, D. Drikakis, S. Tsangaris "Multigrid techniques for a conservative non-orthogonal projection method for incompressible flows," Proceedings of the 3rd National Congress on Mechanics, published by Hellenic Society for Theoretical and Applied Mechanics (ed. P.S. Theocharis), pp. 247-254, Athens, 1992.
488. D. Drikakis, S. Tsangaris "High resolution flux splitting schemes up to fourth order of accuracy for the equations of gas dynamics," Proceedings of the 3rd National Congress on Mechanics, ed. P.S. Theocharis, pp. 216-222, Athens, Greece, June 26-29, 1992.

489. D. Drikakis, S. Tsangaris "Navier-Stokes computations for high Reynolds number compressible flows over an axisymmetric body," Proceedings of the 1st National Congress on Computational Mechanics, Vol. II, pp. 663-670, published by University of Patras Press, 3-4 September, Athens, 1992.
490. D. Drikakis, S. Tsangaris "Determination of Internal Gas Flow by Several High Order Methods," Proceedings of the International Symposium ECOS'92: On Efficiency Costs, Optimization and Simulation of Energy Systems, eds. A. Valero et al., ASME Publ. (Advanced Energy Systems Division), pp. 491-499, Zaragoza, Spain, June 15-18, 1992.
491. D. Drikakis, S. Tsangaris "Laminar and turbulent viscous compressible flows using improved flux vector splitting," Notes on Numerical Fluid Mechanics, Vol. 35 (eds. J. B. Vos, A. Rizzi, I. Ryming), pp. 407-416, Vieweg Verlag., 1991.
492. D. Drikakis, S. Tsangaris "Real gas effects for compressible nozzle flows," Proceedings of the International Conference: Analysis of Thermal and Energy Systems, pp. 971-982, eds. Kouremenos et al., ASME Publ. (Advanced Energy Systems Division), 1991.
493. D. Drikakis, S. Tsangaris "Shock Capturing Method for Hypersonic Flows and Real Gas effects," Proceedings of the Int. Conference on Computational Engineering Science, ICES'91, ed. Atluri et al., 4 pages, Melbourne, Australia, August 12-16, 1991).
494. D. Drikakis, S. Tsangaris "Improved mesh sequencing method for the accelerated solution of the compressible Euler and Navier-Stokes equations," Proceedings of the 17th ICAS Congress, Paper ICAS-90-6.10.1, Vol. 2, pp. 1999-2011, 1990.
495. D. Drikakis, S. Tsangaris "Convergence Acceleration for a finite volume scheme of the Euler equations using mesh-sequencing," Proceedings of the 3rd Int. Congress of Fluid Mechanics, Vol. III, pp. 913-927, 1990.

Annex I

KEYNOTE AND INVITED PRESENTATIONS

2023	Keynote	Hellenic Air Force Conference	Greece
2022	Keynote	Cyprus Air Force Conference	Cyprus
2020	Keynote	Aerodynamics 2020	Virtual
2020	Keynote	V-Applied2020, International Webinar on Applied Science	Virtual
2019	Invited	ETH Zurich	Switzerland
2019	Keynote	International Conference on Aviation and Space Technology	Dubai
2018	Invited	CCPS 2018, Collaborative Conference on Fluid Dynamics, September 10-14, 2018	Barcelona, Spain
2018	Keynote	21st International Conference on Advanced Nanoscience and Nanotechnology, June 21-23, 2018	London, UK
2018	Keynote	16 th International Conference on Emerging Materials and Nanotechnology, March 23 rd .	London, UK
2018	Keynote	International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2018), March 22 nd .	Cambridge, UK
2017	Lecture in Fluid Mechanics	UK Atomic Energy Authority, Culham Science Centre	Oxford, UK
2017	Lecture in Fluid Mechanics	National University of Singapore	Singapore
2017	Lecture in Fluid Mechanics	University of Oxford	Oxford, UK
2017	Plenary , First World Congress on Condition Monitoring	ILEC Conference Centre	London, UK
2017	Lecture in Fluid Mechanics	Universitat Politècnica de Catalunya (UPC)	Barcelona, Spain
2017	Lecture in Fluid Mechanics	Nanyang Technological University	Singapore
2016	Keynote International Workshop on Recent Advances in Numerical Methods for Hyperbolic Conservation Laws and Nonlinear Time Dependent Partial Differential Equations in Honour of the 70th Birthday of Prof. Dr. Dr. hc. Eleuterio F. Toro, OBE	University of Trento	Italy
2016	Keynote , Workshop on “Hybrid Simulation Methods in Fluid Dynamics: Models, Software, and Applications”	Technische Universität München	Munich, Germany

2016	Keynote , Multiphase CFD Modelling	Institution of Mechanical Engineers	London, UK
2015	Clarendon Lab, Department of Physics	University of Oxford	UK
2015	European Workshop on High Order Nonlinear Numerical Methods for Evolutionary PDEs: Theory and Applications	University of Trento	Italy
2014	Keynote , 4th Micro and Nano Flows Conference		London, UK
2014	Keynote , 11th International Conference of Condition Monitoring and Machinery Failure Prevention Technologies (Selected as the Best Conference Paper)	British Institute of Non-Destructive Testing and US Society for Machinery Failure Prevention Technology	Manchester, UK
2014	Keynote , 10th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences	Narvik University, Embry-Riddle Aeronautical University	Narvik, Norway
2014	International Meeting of Specialists on Heat Transfer to Fluids at Supercritical Pressure	University of Manchester	Manchester, UK
2014	High-Order and Multi-Scale Methods for Flight Physics	NASA Ames Research Centre, Advanced Supercomputing Division	CA, USA
2014	3 rd International Workshop on Computational Experiments in Aeroacoustics	M.V. Keldysh Institute of Applied Mathematics	Svetlogorsk, Russia
2012	Keynote , Flying Test Beds for Novel Aircraft Configurations for Future Air Transport	European Commission, Aeronautics	Brussels, Belgium
2013	Annual Keynote Lecture , Flying Concepts and Computational Science in Support of their Development	Airbus Group	Bavaria, Germany
2013	9th UK - Japan Seminar on Multi-Phase Flow	UK-Japan Collaboration	London, UK
2013	Keynote , Mosaic3DX Conference	Microsoft research and Univ. of Cambridge	Cambridge, UK
2013	Invited Seminar, Computational Science Modeling for Biomedical Applications	Academy of Athens, Biomedical research Foundation	Athens, Greece
2012	Keynote , Young Researchers in Mathematics 2012 Conference	School of Mathematics, Bristol University	Bristol, UK

2012	3rd International EULAG Workshop on Eulerian/Lagrangian Methods for Fluids	Natural Environment Research Council, National Centre for Atmospheric Science	Loughborough, UK
2011	Keynote , EU Marie Curie Workshop on Combustion and Atmospheric dispersion	University of Cyprus	Cyprus
2011	International Workshop on Numerical Methods and Modelling for Compressible Multimaterial Flows and Mixing	Institute of Applied Physics and Computational Mathematics	Beijing, China
2011	3rd Micro and Nano Flows Conference		Thessaloniki, Greece
2011	High Performance Computing: Regional Developments and Future Opportunities	Joint HP-SEE, LinkSCEEM-2 and PRACE HPC Summer Training	Athens, Greece
2011	Frontiers of numerical jet modelling: from engineering to environmental flows	Royal Society Seminars	Kavli Centre, UK
2011	Invited seminar	Royal Society Research Fellow International Scientific Seminar	Cambridge, UK
2011	IChemE's Event: What next for fluid simulations of fluid mixing processes?	IChemE, King's College	London, UK
2010	Keynote , Mars Workshop on Drying Technologies	Mars GmbH	Verden, Germany
2010	Multiphysics and Unsteady Simulations for Aeronautical FlowsMUSAF Colloquium	Centre Européen de Recherche et de Formation Avancée en Calcul Scientifique (CERFACS)	Toulouse, France
2010	Invited seminar	Aeronautics Department, University of Southampton	Southampton, UK
2010	7th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics		Antalya, Turkey.
2009	Workshop on Modern Trends in Computational Aerodynamics (MTCA'09)	College of Engineering and Physical Sciences, University of Birmingham	Birmingham, UK
2009	Applied Mathematics Seminars	University of Birmingham	Birmingham, UK
2008	Royal Society Conference: Applied Large Eddy Simulation	Royal Society	London, UK
2009	EPSRC Workshop on Computational Fluid Dynamics	University of Warwick	Warwick, UK
2009	First International Conference on Computational Methods for Thermal Problems		Naples, Italy
2009	Keynote , Parallel CFD Conference	NASA Ames	CA, USA

2007	Second International Conference in Advanced Computing and Simulation	University of Cambridge	Cambridge, UK
2007	Invited Seminar	University of Southampton	Southampton, UK
2007	Keynote , World Engineering Congress		London, UK
2007	Colloquium on LES for External Aerodynamic Flows	Royal Aeronautical Society	London, UK
2006	Workshop on Classical versus Implicit Large Eddy Simulation	Oxford University	Oxford, UK
2005	Invited seminar on CFD and Multi-Scale Methods	BAE Systems	Bristol, UK
2003	ERCOFTAC Lecture	ETH	Zurich, Switzerland
2003	Conference on Multiphase Fluid Flows and Multi-Dimensional Hyperbolic Problems	Isaac Newton Institute for Mathematical Sciences, Cambridge University	Cambridge, UK
2001	Invited Seminar	University of Greenwich	London, UK
2000	ECCOMAS Conference, Forum on "Low Mach Number Flows"	ECCOMAS	Barcelona, Spain
2000	Forum on CFD in Aeronautics organised by European Union Industrial Directorate	ECCOMAS	Barcelona, Spain
2000	Sixth International Conference on Applications of High-Performance Computers in Engineering		Hawaii, USA
1999	International Conference "Godunov Methods: Theory and Applications"	St Anne's College, Oxford University	Oxford, UK
1999	Keynote , IMechE Conference on CFD	Institution of Mechanical Engineers	London, UK
2001	Symposium on Modelling Biological Flows: Status & Challenges for the Future	Daresbury Laboratories	Daresbury, UK
2001	ECCOMAS CFD Conference	Swansea University	Swansea, UK
2001	Workshop on Five-Year Vision for Prediction and Control of Unsteady Flow Phenomena in Aerospace Aerodynamics	European Commission	London, UK
2001	Symposium on Advective Methods	British Applied Mathematics Colloquium	Reading, UK

Invited/Keynote presentations before 2001: Univ. of Greenwich, UK (2001), University of Marseille, France (2000), Isaac Newton Inst. (1999), Cambridge Univ. - DAMTP (1998, 1999), Imperial College - Aerospace Eng. Dept. (1998), Nottingham University - Mechanical Eng. Dept. (1998), BAe \& ERCOFTAC UK South Workshop on Turbulence Structures (1998), University of Manchester - Physics Department (1997), University of Toronto - Institute of Aerospace Studies (1997), University of Waterloo (Canada) - Mech. Eng. Dept. (1997), CEC High-Performance Computing Conference (1996), MMU - Applied Mathematics Dept. (1996), GKN Westland Helicopters (1996), Glasgow University - Aerospace Eng. Dept. (1995) Technical University of Prague - Mechanical Eng Dept. (1995), Institut de Mecanique des Fluides de Toulouse (1994), Royal Institute of Technology, Sweden (1994), University of Freiburg (Germany) - Applied Mathematics Dept (1993), Daimler Benz Aerospace (DASA) (1993)

Scientific, Advisory and Organising Committees

2024	8th International Conference on Computational and Mathematical Biomedical Engineering (CMBE24)	George Mason University, Arlington, Virginia, United States
2021	12th International Conference on Mechanical and Aerospace Engineering (ICMAE)	Athens, Greece
2021	International Conference on Smart Cities and Smart Grid (CSCSG 2021)	Frankfurt, Germany
2020	14th World Congress in Computational Mechanics and ECCOMAS Congress 2020	Paris, France
2019	International Scientific Committee, ECCOMAS 5th Young Investigators Conference (1-6 Sept, 2019)	Kraków, Poland
2018	12th International Conference on Challenges in Industrial Engineering and Operations Management Conference, 11-12 September.	Ankara, Turkey
2018	International Advisory Committee of the International Condition Monitoring Conference	UK
2018	3rd International Conference on Design and production Engineering, December 03-04, 2018	Valencia, Spain
2018	ICMAE 2018 - 9th International Conference on Mechanical and Aerospace Engineering	Budapest, Hungary
2018	Astronomy and Space Science, October 18-19	Rome, Italy
2018	4th International Conference on Condensed Matter and Materials Physics, August 16-17, 2018 (Materials Physics 2018)	London, UK
2018	Programme Committee, EMN 2018, Energy Materials and Nanotechnology	International Conference Series, various countries
2018	Organising Committee, Pumps and Pipes (medical science meets oil industry meets space science" – called)	Aberdeen, Scotland, UK
2018	Scientific Advisory Committee for International Conference on Condensed Matter and Material Science (ICCMS-2018)	Kuala Lumpur, Malaysia
2018	Global Summit on Physics	Madrid, Spain
2018	12th Edition of International Conference on Nanopharmaceutics and Advanced Drug Delivery.	Dublin, Ireland

2018	2nd International Conference on Medical and Health Informatics (ICMHI 2018)	Hong Kong
2018	16 th International Conference on Emerging Materials and Nanotechnology	London, UK
2018	4th International Conference on Physics	Berlin, Germany
2018	Joint 6 th European Conference on Computational Mechanics (ECCM) and 7 th European Conference Computational Fluid Dynamics (ECFD)	Glasgow, UK
2018	3 rd International Conference on Fluid Dynamics & Aerodynamics, 25-26 October	Berlin, Germany
2017	Chair , 1st International Aerospace Symposium on Acoustic Fatigue	Glasgow, UK
2017	Chair of the International Parallel CFD Conference	Glasgow, UK
2017	CMBE17: International Conference on Computational and Biomedical Engineering	Pittsburgh, USA
2017	World Congress & Expo on Nanotechnology and Nanoengineering	Dubai, UAE
2017	3rd Int'l Conference on Microsystems and Nanotechnologies (ICMN 2017)	Shenzhen, China Shanghai, China
2016	2nd Int'l Conference on Microsystems and Nanotechnologies (ICMN 2016)	
2016	6 th EASN International Conference on Innovation in European Aeronautics Research.	Porto, Portugal
2015	IMA Conference on Numerical Methods for Simulation	Oxford, UK
2015	8th European Symposium on Aerothermodynamics for Space Vehicles (Organiser: European Space Agency)	Lisbon, Portugal
2014	4th EASN Association International Workshop on Flight Physics and Aircraft Design	Aachen, Germany
2011-2015	4 th International Conference on Computational and Biomedical Engineering	USA, Hong Kong, France
2010-2014	International Conference on Computational Fluid Dynamics	Russia, USA, China
2014	3 rd International Conference on Computational methods for Thermal Problems	Slovenia
2007-2014	World Engineering Congress	London, UK
2014	11th International Conference of Condition Monitoring and Machinery Failure Prevention Technologies	Manchester, UK
2014	Mech Aero-2014, 2nd International Conference and Exhibition on Mechanical & Aerospace Engineering	Philadelphia, USA
2012	Chair , 13 th International Workshop on the Physics of Compressible Turbulent Mixing	Woburn, UK
2012	9th International ERCOFTAC Symposium on Engineering Turbulence Modelling and Measurements	Thessaloniki, Greece
2012	New Models & Hydrocodes 2012 Conference	London, UK
2011	8th International Symposium on Shock Waves	Manchester, UK
2011	2011 American Institute of Aeronautics and Astronautics (AIAA) Conference on CFD	Hawaii, USA
2009-2011	2nd African Conference on Computational Mechanics, AfriComp11	Cape Town, South Africa
2010	12 th International Workshop on the Physics of Compressible Turbulent Mixing	Moscow, Russia
2001, 2006, 2010	ECCOMAS CFD Conference	UK, The Netherlands, Portugal

2009	Workshop on Quality and Reliability of Large Eddy Simulations II	Pisa, Italy
2009	2nd Micro and Nano Flows Conference	London, UK
2009	1st African Conference on Computational Mechanics, Africomp'09	Cape Town, South Africa
2009	Large Eddy Simulation Short Course, jointly with F. Grinstein (LANL) and N. Georgiadis (NASA Glenn)	Cranfield, UK
2008	2nd South African International Aerospace Symposium (SAIAS2008)	Cape Town
2007	Symposium on Quality of Large Eddy Simulations - QLES2007	Leuven, Belgium
2006	"Micro and Nanoscale Flows: Advancing the Engineering Science and Design Conference"	Glasgow, UK
2005	Conference on "High Order Non-Oscillatory Methods for Wave Propagation: Algorithms and Applications"	Trento, Italy
2000-2005	ASME International Mechanical Engineering Congress and Exposition (IMECE 200-2005)	Boston, New York, New Orleans, Washington DC, Anaheim, Orlando, USA
2000	Sixth International Conference on "Applications of High Performance Computers in Engineering (HPC 2000)"	Hawaii, USA
1999	Conference "Godunov Methods: Theory and Applications" on the occasion of Prof. Godunov's 70th birthday	Oxford, UK
1999	2nd Joint ASME & JSME (Japanese Society for Mechanical Engineers) International Symposium on Validation Systems Transients Analysis Codes," ASME Fluids Engineering Conference	San Francisco, USA.
1998	Symposium "Multilevel Methods for Incompressible Viscous Flows", 4th SIAM International Conference on Numerical Methods and Applications	Sofia, Bulgaria
1997	5th International Conference on Applications of High Performance Computers in Engineering (HPC 97)	Santiago de Compostela, Spain
1997	International Parallel CFD'97 Conference	Manchester, UK
1996	Parallel CFD Workshop	Slovenia
1996	UMIST 7th CFD Colloquium	Manchester, UK
1994	EUROMECH Colloquium 315: "Efficient Numerical Methods and Parallel Computing in Fluid Mechanics"	University of Erlangen-Nuremberg, Germany