

Curriculum Vitae

Professor Dimitris Drikakis, PhD, FRAeS, CEng, SMAIAA

Contents

| | Page |
|--|-------|
| Professional and Academic Track record | ...2 |
| Research impact | ...3 |
| Leadership positions | ...5 |
| Major Boards, Fellowships, industrial collaborations, professional societies membership, editorships, editorial boards, evaluator's appointments, PhD students | ...9 |
| Teaching track record | ...13 |
| Books & Journals publications | ...15 |
| Conference publications | ...23 |
| Annex I: Keynote presentations and Scientific, Advisory and Organising Committees | ...39 |

| 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 2020 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 JPA, Boyack KW, Baas J (2020) Updated science-wide author databases of standardized citation indicators. PLoS Biol 18(10): e3000918.
- According to Research.com has been ranked in the **top 500 best scientists in Aerospace and Mechanical Engineering worldwide and the top scientist 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 50 (Scopus) & 55 (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*: 55 (Google Scholar), 50 (Scopus)
- *i10-index*: 167 (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. 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>
2. 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)
3. 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).
4. 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).
5. Nicholas Christakis, Dimitris Drikakis, Konstantinos Ritos, Ioannis W. Kokkinakis, Unsupervised machine learning of virus dispersion indoors, *Physics of Fluids* 36, 013320 (2024).
6. Konstantinos Ritos, Dimitris Drikakis, Ioannis William Kokkinakis, The effects of ventilation conditions on mitigating airborne virus transmission, *Physics of Fluids* 36, 013322 (2024).
7. 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>
8. 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).
9. Ritos, K., Drikakis, D., & Kokkinakis, I. W. (2023). Virus spreading in cruiser cabin. *Physics of Fluids* 35, 103329 (2023).
10. 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).
11. Drikakis, D.; Sofos, F. Can Artificial Intelligence Accelerate Fluid Mechanics Research? *Fluids* **2023**, 8, 212. <https://doi.org/10.3390/fluids8070212>
12. Christakis, N.; Drikakis, D. Reducing Uncertainty and Increasing Confidence in Unsupervised Learning. *Mathematics* **2023**, 11, 3063. <https://doi.org/10.3390/math11143063>
13. Christakis, N.; Drikakis, D. Unsupervised Learning of Particles Dispersion. *Mathematics* **2023**, 11, 3637. <https://doi.org/10.3390/math11173637>

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

⁶University of Twente, The Netherlands.

14. 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).
15. 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>.
16. 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.
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Annex I

KEYNOTE AND INVITED PRESENTATIONS

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|------|---|---|------------------|
| 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 |

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| 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 |

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| 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 |

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| 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

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| 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 |

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| 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 |

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| 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 |