

Curriculum Vitae  
**Professor Dimitris Drikakis**

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PROFESSIONAL EXPERIENCE*		
2018 – to date	<ul style="list-style-type: none"> <li>• <b>Vice President of Global Partnerships</b></li> <li>• <b>Executive Director, Research &amp; Innovation</b></li> <li>• <b>Professor, Science &amp; Engineering and Medical Schools (cross-appointment)</b></li> <li>• Senior Researcher at University of Nicosia Research Foundation</li> </ul>	<b>University of Nicosia, Cyprus</b>
2015 - 2017 2015 - 2018	<ul style="list-style-type: none"> <li>• <b>Executive Dean of the Faculty of Engineering</b></li> <li>• <b>Professor of Engineering Science</b></li> </ul>	<b>University of Strathclyde, UK</b>
Other positions at the University of Strathclyde:		
2017 - 2018	<ul style="list-style-type: none"> <li>• <b>Executive Director, Global University Partnerships (USA &amp; Far East)</b></li> <li>• Executive Director, Strathclyde Space Institute</li> </ul>	
2016 - 2017	<ul style="list-style-type: none"> <li>• Associate Principal</li> </ul>	
2003 - 2015	<ul style="list-style-type: none"> <li>• <b>Professor of Fluid Mechanics and Computational Science</b></li> </ul>	<b>Cranfield University, UK</b>
2013 - 2015	<ul style="list-style-type: none"> <li>• <b>Head, Institute of Aerospace Sciences</b></li> <li>• <b>Director of Research (School of Aerospace, Transport &amp; Manufacturing)</b></li> </ul>	
2005 - 2010	<ul style="list-style-type: none"> <li>• Head, Department of Aerospace Sciences</li> </ul>	
2012 - 2013	<ul style="list-style-type: none"> <li>• Head, Department of Engineering Physics</li> </ul>	
2011 - 2012	Founding Director, Computation-based Science and Technology Research Centre	Cyprus Institute <sup>1</sup> , Cyprus
2001 - 2003	<ul style="list-style-type: none"> <li>• <b>Professor of Fluid Mechanics</b></li> </ul>	<b>Queen Mary, University of London, UK</b>
1999 - 2001	<ul style="list-style-type: none"> <li>• Reader in Computational Fluid Dynamics</li> </ul>	
1995 - 1999	Lecturer in Mechanical Engineering	UMIST <sup>2</sup> , UK
1993 - 1995	<ul style="list-style-type: none"> <li>• Team Leader, Computational Aerodynamics Group</li> </ul>	Friedrich–Alexander University of Erlangen–Nuremberg, Germany
1992 - 1993	<ul style="list-style-type: none"> <li>• Research Scientist</li> </ul>	
1988 - 1991	<ul style="list-style-type: none"> <li>• Research and Teaching Assistant</li> </ul>	National Technical University of Athens, Greece
* Information on Leadership and impact is provided on pages 3 to 8		

#### MAJOR AWARDS

2008 - 2011 and 2011 - 2014	<b>William Penney Fellowship</b> by the UK's Atomic Weapons 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 <b>Innovator of the Year Award</b> 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	<b>Technical Achievement Award</b> at the International Conference on Mathematical Problems in Engineering, Aerospace and Sciences.

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

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

## EDUCATION

1982 --1987	Diploma in Mechanical Engineering (MEng)	National Technical University of Athens (NTUA), Greece
1988 --1991	PhD in Computational Fluid Dynamics	NTUA <sup>3</sup>

## HONORARY & INVITED POSITIONS

2004 - 2007	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

### SUMMARY OF RESEARCH IMPACT

I have been active in both fundamental and applied research over 30 years in the fields of advanced computational modelling of fluids, acoustics, fluid/solid interfaces, and micro/nanoscale processes. My work has been key to resolving significant issues across a diverse spectrum of engineering science problems and industries. My long-term aspiration is to make research and teaching contributions of ground-breaking nature, which encompass both intellectual excellence and impact on the industry and the society. Evidence of research impact and scholarship includes:

- Completed the supervision of **45 PhD students**, as well as several MSc by Research students, **and mentored 19 post-doctoral fellows**. All my former students now hold positions in academia and industries around the world.
- Published as a sole author, as well as jointly with my PhD students, post-doctoral researchers and industrial collaborators, **422 articles**: 177 journal, 245 conference papers, as well as book chapters; and two books; **h-index 39 (Scopus) & 45 (Google Scholar)**.
- Attracted significant funding as a Principal Investigator or a Co-investigator from a range of sources, including EPSRC, European Union, Industry and Government. A list of past and current industrial collaborations is provided on page 7.
- I have been an Associate Editor in five international journals and member of the editorial board of another 20 journals.

Impact of my research on industrial applications is summarised below:

- Advanced the understanding of **compressible turbulent mixing** and the development of **multi-scale methods** for increasing the accuracy in the modelling and simulations used by **AWE plc** in the design of engineering systems for inertial confinement fusion applications.
- **Multi-scale methods for fluid/solid interfaces** that **couple continuum and molecular dynamics codes**, which provide new insights that inform model development at **AWE plc** for advanced materials.

<sup>3</sup> Scientific Collaboration with Deutsche Aerospace formerly Messerschmitt-Bölkow-Blohm.

- Advanced **passive thermal management** strategies through **molecular studies of confined liquids and nanofluids (BAE Systems)**.
- Advanced the understanding of **heat transfer processes in Nuclear Fusion (UK Atomic Energy Authority)** aiming to improve the design of cooling devices.
- Inventions: a Carbon Nanotubes Gas Filter for CO<sub>2</sub> filtration (**UK Patent 2479257-A, US Patent 20130042762 A1, China Patent CN102892479**) and awarded the Innovator of the Year Award (2014) by The Innovation Institute.
- I have contributed to thrust vectoring systems using high-fidelity fluid dynamics simulation methods (**BAE Systems and MBDA**).
- Advanced the understanding of **near-wall turbulence** and its **effects on acoustic fatigue** of aerospace structures; **US Air Force Office of Scientific Research** sponsors the research. The second award started in May 2019 and will continue until May 2022.
- I have developed high-fidelity (high-resolution and high-order) computational fluid dynamics (CFD) methods with a diverse impact across a range of applications: the German Aerospace Agency (**DLR**); **Los Alamos** National Laboratory (LANL); the Japan Aerospace Exploration Agency (**JAXA**), the French Commissariat à l'Énergie Atomique (**CEA**); and many academic groups worldwide.
- Founded the International Aerospace Symposium on Acoustic Fatigue.
- Advanced modelling capabilities for the evaluation of the effectiveness of **Nitrogen Enriched Air sparging for removing water from the aircraft fuel** and provided recommendations to the industry for health-and-safety and environmental issues associated with the release of fuel to the environment (**Eaton Aerospace Ltd**).
- Advanced the understanding of **multiphase flows in oil and gas separators** used by the petroleum industry to separate a fluid mixture into its gaseous and liquid phases (WorleyParsons Ltd).
- The development of a realistic (time-accurate) definition of ship/helicopter operating limits through high-order Large Eddy Simulations around Royal Navy Ships. The above research enabled experienced RAF pilots to decide if it is possible to land on a ship in a given weather condition (**DSTL**).
- Established the Academic Advisory Panel of the **UK's Oil and Gas Technology Centre (OGTC)** to act as a high-level guide to OGTC Leadership Team on matters relating to academic research and its industrial impact to enhance the effectiveness of OGTC engagement with relevant applied academic research and knowledge transfer to industry.

Other evidence of internationalisation and impact:

- Since 2010, I have given **16 keynotes/plenary invited lectures** at international conferences.
- **Conference Chair** of three International Conferences: i) 13<sup>th</sup> International Workshop on the Physics of Compressible Turbulent Mixing that involves National Nuclear Research Labs from the UK (AWE), France (CEA), and the USA (LANL & LLNL); ii) The 29th International Conference on Parallel Computational Fluid Dynamics, Glasgow, 2017; iii) The 1st International Aerospace Symposium on Acoustic Fatigue, Glasgow, 2017.

- **Established the Defence and Security Research Institute** in Cyprus (2019) with the mission to undertake research and training activities on defence and security in collaboration with partners in government; industry; and other academic and research centres nationally and internationally.
- Current international research collaborations include ETH Zurich (Switzerland), Beihang (China), US Air Force (USA), Lomonosov (Moscow State University, Russia), Stanford University (USA), Osaka University (Japan), and several industrial organisations (see page 7).
- Member of the international teams: UCNS3D (Cranfield led) for the development of open-source unstructured-grid-based, high-order multi-scale fluid mechanics simulation software. SU2 (Stanford University led) contributing to the development of the open-source code SU2 for aerospace design.

## LEADERSHIP

### ***The University of Nicosia, Cyprus (November 2018 - )***

- **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. I have also been responsible for 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.

- **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. Moreover, I am responsible for guiding academic staff in respect of the preparation of research proposals. I also coordinate the Virtual Reality research activities of the University. 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 the QS Emerging Europe and Central Asia (EECA), and the Times Higher Education Impact Rankings.

### ***University of Strathclyde (2015 - 2018)***

- **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.

- **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)

- **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.

- **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.

- **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.

### ***Cranfield University (2003 - 2015)***

- **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.

- **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**

2013 - 2019	European Research Council	Deputy Chair (Engineering), Expert Panel
2019 -	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 -	Institute for the Future, Cyprus	Board of Directors
2016 - 2018	UK Oil & Gas Technology Centre	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 -	European Science Foundation	College of Expert Reviewers
2015	National Nuclear Security Administration, Department of Energy, USA	Expert Evaluator
2010 - 2013	American Institute of Aeronautics and Astronautics	Fluid Dynamics Technical Committee
2004 -	Engineering and Physical Sciences Research Council	Peer-Review College
2015 - 2018	Specialist Gas Separation Ltd	Director

*Membership on International Conference Committees is presented in the Annex.*

### **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 BODIES<sup>4</sup>**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• BAE Systems (UK)</li> <li>• Atomic Weapons Establishment (UK)</li> <li>• EPSRC</li> <li>• Oil &amp; Gas Institute, UK</li> <li>• European Space Agency</li> <li>• GKN AgustaWestland</li> <li>• UK Atomic Energy Authority (UKAEA)</li> <li>• MBDA</li> <li>• Lockheed Martin</li> <li>• Chemring Defence</li> <li>• Airbus Defence and Space</li> <li>• Jaguar Land Rover</li> <li>• US Air Force Office of Scientific Research</li> <li>• Commercial Aircraft Corporation of China</li> </ul> | <ul style="list-style-type: none"> <li>• ITER (France)</li> <li>• Reaction Engines</li> <li>• SAFRAN Turbomeca</li> <li>• Redring Xpelair Group</li> <li>• MagnaParva Ltd</li> <li>• UK Ministry of Defence</li> <li>• European Union (H2020)</li> <li>• Los Alamos National Lab</li> <li>• BHR Ltd</li> <li>• QualityPark AviationCenter GmbH</li> <li>• TEKEVER Group</li> <li>• Xchanging Solutions</li> <li>• Eaton Aerospace</li> <li>• Intracom Defence</li> </ul> |
|--|--|

<sup>4</sup> Collaborations in my capacity as University Professor.

- German Aerospace Agency (DLR)
- Aircraft Research Association (UK)
- NASA Ames
- Tendeka (Swellfix Ltd)
- Los Alamos National Lab
- Altus-LSA Commercial and Manufacturing SA

- 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

#### EDITORSHIPS

Book Series: “High Speed Flows”	Series Editor in Chief	Elsevier
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)
- 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

### 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

### 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)

<i>R. Kamenicky (active)</i> <sup>5</sup>	A. Mihaiescu (2013)	E. Quaranta (2011)	S. Loiodice (2009)
<i>K. Singh (active)</i> <sup>6</sup>	T. Oggian (2013)	C. Papachristou (2011)	A. Mosedale (2009)
M.Papanikolaou (2017)	A. Antoniadis (2013)	Y. Shimada (2011)	Z. Zachariadis (2009)
C. Barmparousis (2015)	A.Baranda Inok (2012)	C. Vamvakoulas (2011)	M. Hahn (2008)
M. Frank (2015)	B. Obadia (2012)	S. Tissera (2011)	M. Kalweit (2008)
J. Appleyard (2014)	Z. Rana (2012)	N. Asproulis (2010)	S. Patel (2008)
M.Probyn (2014)	D. Sourmaidou (2012)	Z. Malick (2010)	B. Thornber (2008)
I. Zissimos (2014)	P. Barton (2011)	N. Epiphaniou (2010)	P. Neofitou (2001)
M.Kio (2014)	M. Benke (2011)	M. Porton (2010)	A. Bagabir (2000)
K. Karantonis (2013)	M. Lai (2011)	P. Tsoutsanis (2010)	A. Kani (2000)
L. Konozy (2013)	A. Milonas (2011)	I. Kokkinakis (2009)	G. Barakos (1999)
D.Mantzalis (2013)	J. Milnes (2011)	J. Lechuga (2009)	

<sup>5</sup> Remained at the University of Strathclyde after my departure.

## TEACHING & LEARNING

- I am an experienced lecturer (30 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.

<b>University of Nicosia</b>	<p>Teaching duties</p> <ul style="list-style-type: none"> <li>• Fall semester: Materials Science and Engineering (undergraduate)</li> <li>• Spring semester: Fluid Mechanics (undergraduate)</li> </ul>		
<b>University of Strathclyde</b>	<ul style="list-style-type: none"> <li>○ Initiated the establishment of a new MSc in Autonomous Systems and Robotics</li> <li>○ Co-director of the Biofluid Mechanics MSc</li> </ul>		
<b>Cranfield University</b>	<p>Teaching duties:</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▪ Advanced and Classical Turbulence Modelling</li> <li>▪ Fluid Mechanics and Heat Transfer</li> <li>▪ MSc Aerospace Group projects</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▪ CFD for Aerospace Applications</li> <li>▪ Micro/Nano Flows</li> <li>▪ CFD for Automotive Flows</li> </ul> </td> </tr> </table> <p>Other related duties:</p> <ol style="list-style-type: none"> <li>1) Founded the following new MSc Programmes in             <ul style="list-style-type: none"> <li>• Computational Fluid Dynamics (also acted as a Director and co-director)</li> <li>• Autonomous Vehicles Dynamics and Control</li> </ul> </li> <li>2) Director of Cranfield Aerospace Doctoral Training Centre (2008-2010).</li> </ol>	<ul style="list-style-type: none"> <li>▪ Advanced and Classical Turbulence Modelling</li> <li>▪ Fluid Mechanics and Heat Transfer</li> <li>▪ MSc Aerospace Group projects</li> </ul>	<ul style="list-style-type: none"> <li>▪ CFD for Aerospace Applications</li> <li>▪ Micro/Nano Flows</li> <li>▪ CFD for Automotive Flows</li> </ul>
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<b>Queen Mary, University of London</b>	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▪ Computational Fluid Dynamics</li> <li>▪ Stability and Control of Aircraft</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>▪ Advanced Aerodynamics</li> </ul> </td> </tr> </table>	<ul style="list-style-type: none"> <li>▪ Computational Fluid Dynamics</li> <li>▪ Stability and Control of Aircraft</li> </ul>	<ul style="list-style-type: none"> <li>▪ Advanced Aerodynamics</li> </ul>
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<b>University of Manchester (UMIST)</b>	<ul style="list-style-type: none"> <li>▪ Computational Fluid Dynamics</li> <li>▪ Fluid Mechanics</li> <li>▪ Heat Transfer</li> </ul>	<ul style="list-style-type: none"> <li>▪ Thermodynamics</li> <li>▪ Engineering Design</li> </ul>
<b>University of Erlangen-Nuremberg</b>	<ul style="list-style-type: none"> <li>▪ Computational Fluid Dynamics</li> <li>▪ Heat Transfer</li> </ul>	<ul style="list-style-type: none"> <li>▪ Fluid Mechanics</li> <li>▪ Parallel Computing</li> </ul>
Short Courses	<ul style="list-style-type: none"> <li>▪ Introduction to Godunov Methods, Oxford.</li> <li>▪ Heat Transfer and Fluid Flow Studies using Parallel Computing, Delft Univ.</li> <li>▪ 7<sup>th</sup> and 8<sup>th</sup> Biennial Colloquia on CFD, UMIST</li> <li>▪ Turbulence: Principles, Models, and Numerical Methods, University of Erlangen-Nuremberg</li> <li>▪ NUMET'94 Numerical methods for the Computation of Flows and Heat Transfer Problems, University of Erlangen-Nuremberg.</li> <li>▪ Efficient Flow Simulations through New Numerical Methods and Parallel Computing, University of Erlangen-Nuremberg</li> </ul>	
(Selective) Industrial short courses	<ul style="list-style-type: none"> <li>▪ Jaguar Land Rover: Fluid Mechanics and Computational Fluid Dynamics</li> <li>▪ COMAC (China): Aerodynamics, Computational Fluid Dynamics</li> <li>▪ MWH Global Inc: CFD for Industry an Executive Overview</li> <li>▪ Large Eddy Simulation Short Course for Industry, jointly with F. Grinstein (Los Alamos National Lab) and N. Georgiadis (NASA Glenn)</li> </ul>	
External Examiner	<ul style="list-style-type: none"> <li>▪ <b>External Examiner</b> of Master of Science Programmes at <b>Imperial College</b> (2006-2010), <b>University of Southampton</b> (2006-2010), <b>University of Manchester</b> (2014 - 2018), <b>Brunel University</b> (2012 – 2016) and PhD examiner in several universities in the UK</li> </ul>	

## **Research publications**

(Scopus Author ID: 56273846200)

- *h-index*: 45 (Google Scholar), 39 (Scopus)
- *i10-index*: 128 (Google scholar)
- Book [1] has received 25,546 downloads from Springer's web site.  
<http://www.bookmetrix.com/detail/book/4bcf616b-472d-4373-97cc-511980dcfcc2#downloads>

### **Books**

1. D. Drikakis and W. Rider<sup>6</sup> *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. Geurts<sup>7</sup> (Eds) *Turbulent Flow Computation*, Kluwer Academic Publishers, 369 pages, 2002 (ISBN: 1-4020-0523-7).

### **Journal publications (Peer-reviewed)**

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2. I. Kokkinakis, D. Drikakis, D. Youngs, Modeling of Rayleigh–Taylor mixing using single-fluid models, *Physical Review E*, 99, 013104, 2019.
3. D. Drikakis, M. Frank, G. Tabor, Multiscale computational fluid dynamics, *Energies*, 12(17), 3272, 2019.
4. 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.
5. 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.
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14. M. Frank, D. Drikakis, “Draining water from aircraft fuel using Nitrogen Enriched Air, *Energies*, 11, 908, 2018.

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<sup>6</sup>Los Alamos National Laboratory (now at Sandia Labs), USA.

<sup>7</sup>University of Twente, The Netherlands.

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## Annex

KEYNOTE AND INVITED PRESENTATIONS			
2019	<b>Invited</b>	ETH Zurich	Switzerland
2019	<b>Keynote</b>	International Conference on Aviation and Space Technology	Dubai
2018	<b>Invited</b>	CCPS 2018, Collaborative Conference on Fluid Dynamics, September 10-14, 2018	Barcelona, Spain
2018	<b>Keynote</b>	21st International Conference on Advanced Nanoscience and Nanotechnology, June 21-23, 2018	London, UK
2018	<b>Keynote</b>	16 <sup>th</sup> International Conference on Emerging Materials and Nanotechnology, March 23 <sup>rd</sup> .	London, UK
2018	<b>Keynote</b>	International Conference on Computational Materials Science and Thermodynamic Systems (CMST 2018), March 22 <sup>nd</sup> .	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	<b>Plenary</b> , 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	<b>Keynote</b> 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	<b>Keynote</b> , Workshop on “Hybrid Simulation Methods in Fluid Dynamics: Models, Software, and Applications”	Technische Universität München	Munich, Germany
2016	<b>Keynote</b> , 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	University of Trento	Italy

2014	Methods for Evolutionary PDEs: Theory and Applications <b>Keynote</b> , 4th Micro and Nano Flows Conference		London, UK
2014	<b>Keynote</b> , 11th International Conference of Condition Monitoring and Machinery Failure Prevention Technologies ( <b>Selected as the Best Conference Paper</b> )	British Institute of Non-Destructive Testing and US Society for Machinery Failure Prevention Technology	Manchester, UK
2014	<b>Keynote</b> , 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 <sup>rd</sup> International Workshop on Computational Experiments in Aeroacoustics	M.V. Keldysh Institute of Applied Mathematics	Svetlogorsk, Russia
2012	<b>Keynote</b> , Flying Test Beds for Novel Aircraft Configurations for Future Air Transport	European Commission, Aeronautics	Brussels, Belgium
2013	<b>Annual Keynote Lecture</b> , 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	<b>Keynote</b> , 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	<b>Keynote</b> , 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	<b>Keynote</b> , 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	<b>Keynote</b> , 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	<b>Keynote</b> , 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	<b>Keynote</b> , 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	ERCOTAC 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	<b>Keynote</b> , 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

2021	7th International Conference on Computational and Mathematical Biomedical Engineering	Milan, Italy
2020	International Conference on Big Data and Blockchain (ICBDB 2020)	Newcastle, UK
2020	International Workshop on Field Robotics	Nagoya, Japan



2020	ThermaComp2020: Sixth International Conference on Computational Methods for Thermal Problems	Budva, Montenegro
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 <sup>th</sup> International Conference on Emerging Materials and Nanotechnology	London, UK
2018	4th International Conference on Physics	Berlin, Germany
2018	Joint 6 <sup>th</sup> European Conference on Computational Mechanics (ECCM) and 7 <sup>th</sup> European Conference Computational Fluid Dynamics (ECFD)	Glasgow, UK
2018	3 <sup>rd</sup> International Conference on Fluid Dynamics & Aerodynamics, 25-26 October	Berlin, Germany
2017	<b>Chair</b> , 1st International Aerospace Symposium on Acoustic Fatigue	Glasgow, UK
2017	<b>Chair</b> 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 <sup>th</sup> 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 <sup>th</sup> International Conference on Computational and Biomedical Engineering	USA, Hong Kong, France
2010-2014	International Conference on Computational Fluid Dynamics	Russia, USA, China
2014	3 <sup>rd</sup> 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	<b>Chair</b> , 13 <sup>th</sup> 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 <sup>th</sup> 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	Cape Town

	(SAIAS2008)	
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