

Curriculum Vitae

Associate Professor Victoria Timchenko

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Highlights

- Internationally recognised expert in computational fluid dynamics (CFD) and heat and mass transfer
- >200 career publications including 4 book chapters, 137 journal papers and 113 peer-reviewed conference papers;
- Presented 15 keynotes/invited talks at overseas universities and international conferences/workshops;
- Supervised to completion 27 HDR students (23 PhD, 1 MPhil and 3 Master students);
- Currently I am supervising 5 postgraduate research students, 3 Postdocs

Qualifications

1993: PhD in Engineering, Institute for Problems in Machinery, Kharkov, The Ukrainian Academy of Sciences.

1984: Honours Degree in Physics, Kharkov State University, Kharkov, Ukraine

Professional Experience

School of Mechanical and Manufacturing Engineering, the University of New South Wales, Sydney.

1994 – 1999	Research Assistant
1999 –2004	Senior Research Assistant
2005 –2007	Research Fellow
2005 –2008	Lecturer
2009-2020	Senior Lecturer
2021 -current	Associate Professor

Research expertise

Computational fluid dynamics and heat transfer

- Natural convection and phase change problems
- Innovative cooling technologies to improve PV module performance.
- Thermal management of building integrated photovoltaic systems (BIPV) systems with enhanced cooling and ventilation
- Enhancement of heat transfer in microelectronic devices
- Flow battery systems
- Heat transfer in biological tissues
- Advanced nanomaterials

Committees and Editorial Positions

Member of the Scientific Council of International Centre of Heat and Mass Transfer; Member of Scientific Council in Asian Union of Thermal Science and Engineering (AUTSE); Member of the Assembly of IHTC (AIHTC); Member of Editorial Board, FDMP: Fluid Dynamics & Materials Processing; Member of the editorial board of the journal Critical Reviews in Biomedical Engineering; Guest Editor of Modelling and Simulation in Engineering and Advances in Mechanical Engineering.