

Faculty of Engineering and Information Technology

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Four Faculty of Engineering and Information Technology (FEIT) researchers have been named Australia's top researchers in their fields in [The Australian's](#) annual [Research Magazine](#) (2023) and the University was named Australia's research leader in five research fields related to the Faculty.

Each year, *The Australian's Research* magazine names the top Australian researchers and research institutions across 250 fields of research in over eight disciplines. The [newspaper states](#) that its selection is made objectively, based on the number of citations given by peers to research published in top journals.

Congratulations to Australia's top researchers in their fields at FEIT:

- Professor [Rajkumar Buyya](#): Computing Systems AND Software Systems
- Professor [Tuan Ngo](#) – Composite Materials
- Professor [Ivan Marusic](#) – Fluid Mechanics
- Dr [Guilherme Luz Tortorella](#) – Operations Research

Congratulations also to the many FEIT researchers involved in the following areas, for which the University was named as Australia's research leader.

- Human Computer Interaction
- Software Systems
- Fluid Mechanics
- Composite Materials
- Operations Research

FEIT Dean Professor Mark Cassidy congratulated Professors Buyya, Ngo and Marusic and Dr Tortorella, and all researchers involved in the successful fields within FEIT.

"I am thrilled to see this recognition for our researchers," Professor Cassidy said.

"The calibre of our research is the result of outstanding academic rigour, innovation and collaboration. These research areas draw on pioneering technologies, materials and processes to tackle global challenges, including sustainability, security, climate change and more."



Professor Rajkumar Buyya

Rajkumar Buyya (CIS) is a Redmond Barry Distinguished Professor and Director of the University's Cloud Computing and Distributed Systems (CLOUDS) Laboratory. He has pioneered software systems for utility-oriented management of resources, and applications in parallel and distributed computing environments. Software technologies for Cloud computing developed by Professor Buyya and the CLOUDS Lab team have gained rapid acceptance and are in use at academic institutions and commercial enterprises in 50+ countries.

Professor Tuan Ngo (Infrastructure Engineering) is the Research Program Leader of the Building 4.0 CRC, a \$130m initiative to transform Australia's building industry. He is also Research Director of the ARC Training Centre for Advanced Manufacturing of Prefabricated Housing, a \$10m centre focusing on prefabricated buildings on off-site construction. Prof Ngo leads the Advanced Protective Technologies of Engineering Structures Research Group, one of the Asia Pacific region's leading centres in advanced materials and structural systems, and physical infrastructure protection.



Professors Ivan Marusic and Tuan Ngo.

Ivan Marusic (Mechanical Engineering) is an ARC Laureate Fellow and Redmond Barry Distinguished Professor. He is an eminent researcher on fluid mechanics, who has made seminal contributions across several areas. Notably, his discovery, together with Professor Nick Hutchins, of 'superstructures' in wall-bounded turbulence was a breakthrough that led to new predictive tools.

His discoveries have influenced the modelling of environmental flows in rivers, lakes and seas, and the design of pipes, ships and planes, to improve efficiency and optimise resource use.

Dr Guilherme Tortorella (Mechanical Engineering) has more than 12 years of experience as a Manufacturing and Continuous Improvement Manager in the automotive industry, having worked in sites from Brazil, Mexico, Uruguay, the UK and USA. With more than 200 journal articles published, two books and 15 book chapters, his research is mainly focused on Operations Management, more specifically on Lean Management, Industry 4.0 and Supply Chain Management.

He is the Editor-in-Chief of the Journal of Lean Systems, and Associate Editor of the International Journal of Quality & Reliability Management, International Journal of Lean Six Sigma, Production Journal, and Operations Management Research Journal.





Dr Guilherme Tortorella

In *The Australian's Research 2023* rankings, the University as an institution leads in 17 fields and individual researchers lead in 13 fields. This year, the newspaper also named the top five universities and research institutions best equipped by their research capacity and achievements to tackle Australia's top 10 research challenges: climate change, renewable energy, quantum technology, Indigenous research, healthy ageing, food and agriculture, cybersecurity, disability and rehabilitation, media technology, and medical technology and devices.

The University was named Australia's leading research institution in the field of Climate Change and is among the top five in Medical technology and devices.

Read more in the Australian's Research Magazine.

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More Information

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