

Faculty of Engineering and Information Technology

'The Australian' names four FEIT researchers and two FEIT research fields as the nation's leaders

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Four researchers from the Faculty of Engineering and Information Technology (FEIT) were declared Australia's top researchers in their fields and the University was named Australia's research leader in two Faculty-related research areas, according to [The Australian's](#) annual [Research Magazine](#) (2024).

The Australian's Research Magazine recognises outstanding Australian institutions and research in 250 different fields. Many congratulations to the FEIT researchers honoured as Australia's top researchers:

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

Congratulations to the many FEIT researchers working in the following fields, where the University was acknowledged as Australia's leader in the field:

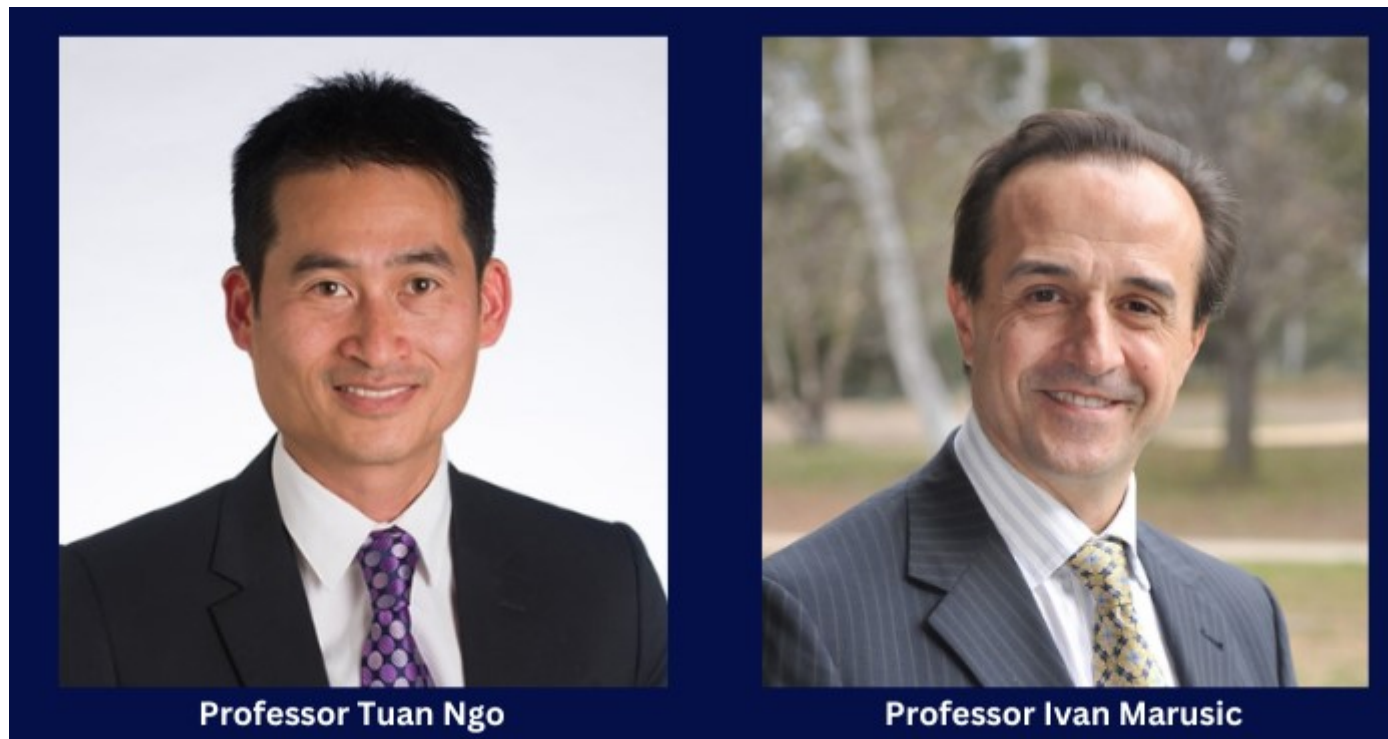
- Operations Research
- Fluid Mechanics

As leader of one of Australia's top 12 research institutions, Vice-Chancellor Professor Duncan Maskell outlined in the magazine what he believes are the key ingredients of a great research university.

"A firm commitment to academic freedom is essential as it allows people to follow their nose," Professor Maskell said.

He believes that bringing people together enables the University to attract the most qualified candidates and help them succeed.

"I'm very keen on trying to make sure that people from different disciplines can get together to address the big questions and the big problems of the world."



Professor Tuan Ngo

Professor Ivan Marusic

Professor Tuan Ngo from the Department of Infrastructure Engineering is the Research Program Leader of the Building 4.0 CRC, which is a \$130m initiative aimed at revolutionising Australia's building industry. Additionally, he is the Director of the International Research Network for Decarbonising the Building

Industry (RNDBI), which focuses on pioneering low-carbon materials and optimising building energy efficiency for a Net Zero future.

Professor Ngo leads the Advanced Protective Technologies of Engineering Structures Research Group, which is one of the Asia Pacific region's leading centres in advanced materials and structural systems, and physical infrastructure protection.

Professor Ivan Marusic from the Department of Mechanical Engineering is the Pro Vice-Chancellor of Research Infrastructure, an ARC Laureate Fellow and a Redmond Barry Distinguished Professor. He is a renowned fluid mechanics researcher who has made important advances in several fields. Professor Marusic, along with Professor Nick Hutchins, made the groundbreaking finding of "superstructures" in wall-bounded turbulence, which resulted in new predictive tools.

His findings have impacted the design of pipes, ships and planes to increase efficiency and optimise resource utilisation, alongside the modeling of environmental flows in rivers, lakes and oceans.



Dr Guilherme Tortorella**Professor Rajkumar Buyya**

Professor Rajkumar Buyya from the School of Computing and Information Systems is a Redmond Barry Distinguished Professor and the Director of the University's Cloud Computing and Distributed Systems (CLOUDS) Laboratory. He is also serving as the founding CEO of Manjrasoft, a spin-off company of the University, commercialising its innovations in Cloud computing. His innovations include software systems for resource management that are utility-oriented with applications in Cloud, Edge and Internet-scale computing environments.

Professor Buyya also developed software technologies for Cloud computing, which have gained rapid acceptance and are in use at academic institutions and commercial enterprises in 50+ countries. He serves as the Editor-in-Chief of Journal of Software: Practice and Experience.

Dr Guilherme Tortorella is a Senior Lecturer in the Department of Mechanical Engineering. He has over 13 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. Dr Tortorella has managed to produce more than 200 journal articles, two books and 15 book chapters. His primary areas of research are Supply Chain Management, Lean Management and Industry 4.0 in the context of Operations Management.

Dr Tortorella serves as the Chief Editor of the Journal of Lean Systems and as an Associate Editor for the production journals, International Journal of Quality and Reliability Management, International Journal of Lean Six Sigma, Production Journal and Operations Management Research Journal.

As an institution, the University leads in 17 fields of research and individual researchers lead in 15 fields, according to 'The Australian's' Research 2024 rankings.

Learn more: <https://todayspaper.theaustralian.com.au/html5/reader/production/default.aspx?pubname=&edid=e45ac3b6-47df-44cc-b1ab-939725e848e8>

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