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Full Reference: Wang Y, Tadimalla S, Sun Y, Holloway L, Thiruthaneeswaran N, Turner S, Sidhom M, Hayden A, Martin J, Haworth A. T*owards reliable delta-radiomics: Identifying robust features for assessing post-radiation therapy response in prostate cancer.*
Conference/Meeting Name: IUPESM World Congress 2025
Location: Adelaide, SA, Australia
Dates: 29 September – 4 October 2025
Presentation Type: Oral presentation



Yu-Feng Wang giving her presentation in the *Artificial Intelligence Patient Prognosis Prediction in Oncology/Radiomics* Session

The event brought together more than one thousand delegates from around the world. Most were engineers and physicists working in hospitals, research institutes, or the biomedical industry. The invited speakers were leading medical physicists and engineers who shared practical examples of how their work has improved clinical practice and patient care.

The program was grounded and practical. While many conferences are currently dominated by AI, this one focused on day-to-day clinical work and the real problems engineers and physicists face in hospitals. Many talks presented applied case studies and small but meaningful improvements that affect workflow and patient experience.

A recurring theme was practical engineering solutions to everyday clinical challenges. One standout session showed how magnets can improve the coverage of nasal sprays. I also attended several radiation therapy sessions, which helped me better understand unmet needs in treatment planning and clinical workflows. These insights will help me identify areas where my expertise can contribute.
Networking was the most valuable part of the conference. I met medical physicists and engineers from Australia and overseas, and several discussions may lead to future collaborations. These conversations also gave me a clearer understanding of the challenges clinical teams deal with, which is essential for translating research into practice.

The knowledge and connections I gained will benefit my research by giving me a stronger sense of real world constraints and priorities in hospitals. This helps ensure that the solutions I work on are clinically relevant and feasible. These outcomes also support the wider Sydney Cancer Partners community, since close links to the medical physics and engineering fields are vital for translational cancer research and improvements in patient care.

A personal highlight was the conference dinner, themed “your country’s colours”. Many attendees wore clothing representing their home countries, which created a warm and inclusive atmosphere.