

EMERGING TECHNOLOGIES

FIELD LEADER IN HUMAN-COMPUTER INTERACTION



DR SHIVA PEDRAM



Next generation application of emerging technologies for industry.

With over 12 years of dedicated research in Human-Computer Interaction (HCI), Dr Shiva Pedram manages the i3lab at the University of Newcastle. Shiva was recognised as Australia's field leader in HCI by Research Australia 2024 (The Australian). Shiva's expertise centres on emerging technologies, including VR, AR, and AI, applied across health, education, insurance, and high-risk industries. Shiva's focus on user-centred design, journey mapping, usability testing, and cognitive ergonomics, using both qualitative and quantitative methods to drive innovation and enhance interaction design for next-generation solutions.

COMPETITIVE ADVANTAGE

- Advanced facility and extensive experience applying cutting-edge VR, AR, and AI solutions across diverse sectors, ensuring relevance and innovation in user-centred design
- Skilled in both qualitative and quantitative methods, providing deep behavioural insights that inform and enhance interaction design for next-generation technology solutions
- Strong international and national reputation as a leading expert in HCI within emerging technologies
- Over 20 research publications demonstrating leadership in the field.

PARTNERS

- Health and Safety Trust
- Vantari VR.

SUCCESSFUL RESEARCH APPLICATION

- VR used to simulate high-risk mine rescue scenarios in NSW, enhancing safety and readiness
- VR applied in surgical training, offering immersive practice for improved techniques and outcomes
- VR implemented in STEM education, making complex concepts more engaging through immersive learning
- AI explored for enhancing customer service in future contact centres.

MORE INFORMATION

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