The iCinema Centre for Interactive Cinema Research

Undertaking immersive and interactive projects, through the use of next generation cyber/physical technologies, to re-imagine ways of creating, designing, learning and working.

Competitive advantage

- Multidisciplinary centre bridging key research areas across multiple faculties
- World-leading expertise in Artificial Intelligence, AR, VR, Mobility and Robotics
- Frontier 3D Cinematic, Modelling, Printing, Scanning and Robotic platforms
- Global network of cutting-edge research and industry partners

Impact

- Facilitating the application of next-generation immersive interactivity applications in contemporary art, cultural heritage, defence memorialisation, digital museology and mining simulation
- Contributing to Australia's international leadership in transformative aesthetic advances that translate cutting-edge visualisation research into industry application
- Enabling end-users to explore interactive modelling of fictional and real-world scenarios in real-time at cinematic 1:1 scale through full-body physical exploration, supported by artificial intelligence systems
- Providing innovative visualisation modalities greatly sought after in a world increasingly reliant on joint human and machine decision-making, facilitated through modelling of unpredictable real-world scenarios

Successful applications

- Construction Safety VR for Brookfield Multiplex, Sydney
- Cultural Heritage Installation for The Smithsonian, Washington
- Metro 3D Immersive Prototyping for WSP, Sydney
- Mine Training and Planning VR Systems for China Technology & Engineering Group, Fushun

Capabilities and resources

- 360 degree full-body AR and VR Platform with 20M pixel resolution
- Wide range of Head Mounted Display systems
- Ultra-High-Definition 5K fixed and mobile 2D/3D scanning systems
- Advanced Robotic Interaction facilities
- Interface for seamless communication between physical and virtual worlds
- Key research areas across multiple faculties of Art and Design, Art and Social Sciences, Engineering, Science and NIDA.

More Information

Scientia Professor Dennis Del Favero

Chair Professor of Digital Innovation

Director iCinema Research Centre

T: +61 (0) 412 468 645
E: d.delfavero@unsw.edu.au

UNSW Knowledge Exchange

knowledge.exchange@unsw.edu.au

www.capabilities.unsw.edu.au

+61 (2) 9385 5008