




Curriculum Vitae

Personal Information		
Title	Professor	
Name	Denny Oetomo	
Degree	PhD	
Country	Melbourne	
Affiliation	The University of Melbourne	



Highlights

- 2025, JOURNAL ARTICLE.
A lower-back focused motion capture and electromyography dataset of Australian sheep shearers at work. DOI: 10.1038/s41597-025-05102-9
- 2025, JOURNAL ARTICLE.
Process mining over sensor data: Goal recognition for powered transhumeral prostheses. DOI: 10.1016/j.is.2025.102540
- 2025, JOURNAL ARTICLE.
Load-Side Dynamics Introduces Complex Effects on Orthotic Actuator Performance in Benchmarking. DOI: 10.1115/1.4067431

Recent Scholarly Works

- 2025, JOURNAL ARTICLE.
Spike-Based Neuromorphic Model of Spasticity for Generation of Affected Neural Activity. DOI: 10.1109/TNSRE.2025.3557044
- 2024, RESEARCH GRANTS (ARC, NHMRC, MRFF)
Human-Robot Co-Evolution: Achieving the Full Potential of Future Workplaces
- 2020, RESEARCH CONTRACTS
Mobile Robots for Conveyor Carryback Removal



- 2020, RESEARCH GRANT
Task-Centric Synthesis for Wearable Assistive Robots
- 2025, CONFERENCE PROCEEDINGS
Using Fitts' Law to Benchmark Assisted Human- Robot Performance.
DOI: 10.1109/HRI61500.2025.10973936
- 2025, JOURNAL ARTICLE
Ultimate Passivity: Balancing Performance and Stability in Physical
Human-Robot Interaction. DOI: 10.1109/TRO.2025.3546856
- 2025. CONFERENCE PROCEEDINGS
Determining insertion depth of silica optical fiber-integrated cochlear
implant electrode array using optical frequency domain reflectometry.
DOI: 10.1117/12.3060799
- 2025. JOURNAL ARTICLE
Gait adaptations in step length and push-off force during walking with
functional asymmetry. DOI: 10.3389/fbioe.2025.1550710
- 2025, JOURNAL ARTICLE
Exploring Interference between Concurrent Skin Stretches. DOI:
10.1109/TOH.2025.3583736



- 2025, JOURNAL ARTICLE

Feasibility study of a game-based virtual reality intervention for functional prosthesis use training: A preclinical assessment. DOI: 10.1097/PXR.00000000000000390

Recent Projects

- 2025. RESEARCH GRANTS (ARC, NHMRC, MRFF)
Electro-Neural Adaptive Bionic Living Electrode-Interface (ENABLE-i)
- 2025. RESEARCH GRANTS (ARC, NHMRC, MRFF)
Muscle-Based Signals for Responsive Physically-Assistive Robotics

Latest Honours (Awards and Fellowships)

- 2014
Norman Curry Award
- 2012
Cornelius Regan Trust Award to pursue a development activity in relation to their work
Cornelius Regan Trust Award