

17 - 20 NOVEMBER

MELBOURNE

ABEC · 2019 ·

AUSTRALIAN BIOMEDICAL ENGINEERING CONFERENCE

Technology & Research in Australian Medical Science

Poster Session 1 - Monday 18th Theme				Title
Timothy Allison-Walker	Poster	Biosensors, Wearables, NeuroEngineering, Biomedical Signal and image Processing		Laminar-dependence of cortical threshold responses to electrical stimulation for visual prosthetics
Jose Arganaras	Poster	Biosensors, Wearables, NeuroEngineering, Biomedical Signal and image Processing		Radar-equipped smart-shoe concept design for gait analysis and fall prevention
Binbin Chen	Poster	Biosensors, Wearables, NeuroEngineering, Biomedical Signal and image Processing		Saccade trajectory deviations in multiple sclerosis
Farhad Goodarzy	Poster	Rehabilitation Engineering and assistive technology, Biomechanics and Computational Bio-Engineering		Cortico-muscular synchronization during finger movement
Raymond Ho	Poster	Surgical Technology, Implantables and Cardiovascular Devices		Cardiopulmonary Bypass Pump Flow Affects Air Emboli Buoyancy and Growth in the Aortic Arch: Cardiac Surgery Implication
Hamed Keramati	Poster	Rehabilitation Engineering and assistive technology, Biomechanics and Computational Bio-Engineering		Using a dimensionally reduced model to estimate the movement of the intimal flap in a dissected aorta
Matthew Lenarduzzi	Poster	Surgical Technology, Implantables and Cardiovascular Devices		Exploration of Microrockets for Biomedical Applications: A Performance Envelope for Suturing
Keryn Nyland	Poster	Biosensors, Wearables, NeuroEngineering, Biomedical Signal and image Processing		Development of an improved algorithm for the continuous measurement of pulse pressure variation to predict fluid responsiveness in patients
Luke Ryan	Poster	Surgical Technology, Implantables and Cardiovascular Devices		Custom experimental setup for ex vivo characterisation of dynamic vascular mechanical properties
Poster Session 2 - Tuesday 19th Theme				Title
Nicholas Cooney	Poster	Biosensors, Wearables, NeuroEngineering, Biomedical Signal and image Processing		Analysis of Motion in Diplegic Cerebral Palsy Using a Wearable Activity Tracking Device and Humanoid Robot
Milad Faizollah	Poster	Surgical Technology, Implantables and Cardiovascular Devices		Low Power Oscillators for Implantable Brain Computer Interfaces
Qiang Fang	Poster	Rehabilitation Engineering and assistive technology, Biomechanics and Computational Bio-Engineering		A Lower Limb Rehabilitation Motion Recognition Method using Artificial Neural Network
Qiang Fang	Poster	Rehabilitation Engineering and assistive technology, Biomechanics and Computational Bio-Engineering		A New Stimulus Artefacts Removal Method for Muscle Fatigue Extraction
Catherine Galvin	Poster			Can knee kinematics predict the future?
Tzu-wei Lu	Poster	Biomaterials and Tissue Engineering		Development of a water soluble chitosan-based scaffold for bone regeneration
Olivia Ng	Poster	Rehabilitation Engineering and assistive technology, Biomechanics and Computational Bio-Engineering		Arteriovenous Fistula (AVF) Failure Prediction through Patient-Specific (PS) Modelling
Xiaoxi Hou	Poster	Surgical Technology, Implantables and Cardiovascular Devices		Hemodynamic effects of entry and re-entry size on aortic dissection based on computational fluid dynamic