



MONASH
University

SHARE 2024

A two-day conference on healthcare
artificial intelligence hosted by Monash
Faculty of Information Technology

20 – 21 NOVEMBER 2024 TECHNOLOGY



SHARE

Sharing about Healthcare Artificial intelligence Regionally

SHARE is a rare opportunity to discover the latest research and development work leveraging AI in healthcare to address pressing issues – with solutions applicable across the Indo-Pacific.

EVENT INFORMATION

DAY ONE	Wednesday 20 November 2024, 1.00 – 6.30pm
DAY TWO	Thursday 21 November 2024, 1.00 – 5.30pm
FORMAT	Hybrid – in-person and via Zoom
IN-PERSON LOCATION	Room S4, Building 25, 16 Rainforest Walk, Clayton VIC
LOCATIONS / TIMEZONES	• Indonesia: 4 hours behind EST • Sri Lanka: 5 hours and 30 minutes behind EST • Vietnam: 4 hours behind EST • India: 5 hours and 30 minutes behind EST • Malaysia: 3 hours behind EST
SPEAKER ALLOCATIONS	• Keynotes – 25 minutes • Delegates – 10 minutes • Session Q&As – 10 minutes



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EVENT SCHEDULE

DAY ONE



WEDNESDAY 20 NOVEMBER 2024

SESSION ONE

CLINICAL AI HORIZONS

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
1.00pm	7.30am	9.00am	10.00am	WELCOME DAY ONE - Acknowledgment of Country from Australia - Event overview
1.05pm	7.35am	9.05am	10.05am	OFFICIAL WELCOME ADDRESS
1.10pm	7.40am	9.10am	10.10am	KEYNOTE Navigating Clinical AI – Frameworks for bedside implementations Dr Sujoy Kar , Chief Medical Information Officer and Vice-President, Apollo Hospitals
1.36pm	8.06am	9.36am	10.36am	AI Models for Biomedical Research and Healthcare Professor Satyanarayana Rentala , School of Health Sciences, The Apollo University
1.47pm	8.17am	9.47am	10.47am	Ontomedrec To Enhance Medication Recommendations By Clinical Decision-Support Systems Weicong Tan , Faculty of IT, Monash University
1.58pm	8.28am	9.58am	10.58am	Adoption Challenges of Digital Twin for Dementia Care Armaan Singh Ahluwalia , Amity International Business School, Amity University

SESSION ONE

CLINICAL AI HORIZONS

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
2.09pm	8.39am	10.09am	11.09am	Predicting Mental Disorder Likelihood With Fingerprint Patterns And Machine Learning Classification Dr. Hemangi Sawant , The Apollo University
2.19pm	8.49am	10.19am	11.19am	SESSION ONE Q&A
2.31pm	9.01am	10.31am	11.31am	AFTERNOON TEA

SESSION TWO

THE RISE OF GENERATIVE AI

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
2.53pm	9.23am	10.53am	11.53am	Bridging Medical Knowledge Gaps Across Geographically Dispersed Indonesia: Exploring the Use of Generative AI Professor Taufiq Asyhari, Monash University Indonesia
3.19pm	9.49am	10.29am	12.29pm	Vietnamese-English Medical Translation AI Application To Enhance Communication Between Healthcare Professionals And Patients Professor Wray Buntine, College of Engineering and Computer Science, VinUniversity
3.30pm	10.00am	10.40am	12.40pm	Opportunities And Risks Of Large Language Models For Zero-Shot Summarisation Of Patient-Clinician Conversations During Palliative Care Telehealth Consults Professor Rashina Hoda, Faculty of IT, Monash University
3.41pm	10.11am	10.51am	12.51pm	Improving Information Quality And Reducing Misinformation In Healthcare AI Applications Like ChatGPT Dr Waqar Hussain, Data61, CSIRO
3.52pm	10.22am	11.02am	1.02pm	A Novel Algorithm Based on the Assignment Problem to Assess and Optimise Large Language Model Performance for Differential Diagnoses Paula Chen, Faculty of Medicine, Nursing and Health Sciences, Monash University
4.02pm	10.32am	11.12am	1.12pm	SESSION TWO Q&A
4.12pm	10.42am	11.22am	1.22pm	BREAK

SESSION THREE

AI IN SPECIALIST CARE

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
4.24pm	10.54am	11.34am	1.34pm	Foundation AI for Ophthalmology and Dermatology Associate Professor Zongyuan Ge , Faculty of IT, Monash University
4.50pm	11.30am	12.00pm	2.00pm	Revamping AI Models in Dermatology: Overcoming Critical Challenges for Enhanced Skin Lesion Diagnosis Dr Deval Mehta , Faculty of IT, Monash University
5.01pm	11.41am	12.11pm	2.11pm	Human Longevity and Algorithm for Digital Twin Shweta Nanda , Amity University
5.12pm	11.52am	12.22pm	2.22pm	Effectiveness of a machine learning model for personalised drug selection in newly diagnosed epilepsy: a randomised controlled trial Daniel Thom , Department of Neuroscience, School of Translational Medicine, Monash University
5.23pm	12.03pm	12.33pm	2.33pm	Externally validated prediction models for pre-eclampsia Sofonyas Tiruneh , Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, Australia

SESSION THREE

AI IN SPECIALIST CARE

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
5.34pm	12.14pm	12.44pm	2.44pm	Externally validated machine learning models for predicting caesarean section following induction of labour using real-world, population-based administrative datasets Yanan Hu, Faculty of Medicine, Nursing and Health Sciences, Monash University
5.45pm	12.25pm	12.55pm	2.55pm	Using Real-World Data From Unintrusive Motion Sensors To Link Behaviour Changes To Potential Cognitive And Physical Impairments Yueyi Ge, Faculty of IT, Monash University
5.56pm	12.36pm	1.06pm	3.06pm	Artificial Intelligence across the Maternal Healthcare Continuum in Low- and Middle-Income Countries: A Bibliometric Analysis Dr Dimas Wiskara, Indonesia's National Health Information Technology Communication Forum
6.07pm	12.47pm	1.17pm	3.17pm	3D Simulation for Predicting Post-Orthognathic Surgery Soft Tissue Changes Samaraweera Mudiyanseelage Sachini Pamodya Samaraweera, University of Colombo
6.17pm	12.57pm	1.27pm	3.27pm	SESSION THREE Q&A
6.27pm	1.07pm	1.37pm	3.37pm	DAY ONE CONCLUDING REMARKS

EVENT SCHEDULE

DAY TWO

 **THURSDAY 21 NOVEMBER 2024**

SESSION ONE

AI IN CARDIOVASCULAR DISEASE

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
1.00pm	7.30am	9.00am	10.00am	WELCOME DAY TWO - Acknowledgment to Country from Australia - Event overview
1.05pm	7.35am	9.05am	10.05am	KEYNOTE A Journey to Value through Clinical AI – The GreenSHeart Experience Dr Nik Nailah Binti Abdullah, Founder and CEO, GreenSHeart
1.31pm	8.01am	9.31am	10.31am	Feasibility and Acceptance of AI-Assisted Telehealth for Managing Metabolic Syndrome in Older Adults Sadia Azmin Anisha, Monash University Malaysia
1.42pm	8.12am	9.42am	10.42am	AI-Driven Heart Disease Management in Indonesia: Enhancing Risk Prediction, Diagnosis, and Treatment through Natural Language Processing and Predictive Models Ira Promasanti Rachmadewi, Faculty of IT, Monash University
1.53pm	8.23am	9.53am	10.53am	The Impact of Heat Exposure on Heart Rate: A Study Using Digital Health Devices in Chronic Respiratory Risk Groups in Semi-Urban Malaysia Min Thu, Monash University Malaysia
2.03pm	8.33am	10.03am	11.03am	SESSION ONE Q&A
2.15pm	8.45am	10.15am	11.15am	AFTERNOON TEA

SESSION TWO

VALUE, GOVERNANCE AND FAIRNESS IN AI

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
2.37pm	9.07am	10.37am	11.37am	KEYNOTE AI in Clinical Care – where does the value actually lie? Professor Chris Bain, Digital Health Lead, Faculty of IT, Monash University
3.03pm	9.33am	11.03am	12.03pm	Strengthening Digital Health Governance in LMIC: Developing Models for Service-Level Data Consent in Indonesia Associate Professor Arif Perdana, Monash University Indonesia
3.14pm	9.44am	11.14am	12.14pm	An Investigation Into Adaptive Machine Learning Systems And Their Harm On Patient-Doctor Relationships Professor Robert Sparrow, Faculty of Arts, Monash University
3.25pm	9.55am	11.25am	12.25pm	Fairness Alignment Strategies for Medical Foundation Models Anusha Maheshwari, Faculty of Medicine, Nursing and Health Sciences, Monash University
3.35pm	10.05am	11.35am	12.35pm	SESSION TWO Q&A
3.45pm	10.15am	11.45am	12.45pm	BREAK

SESSION THREE

TALES FROM THE LAB

AUSTRALIA (AEST)	INDIA / SRI LANKA	INDONESIA / VIETNAM	MALAYSIA	ITEM
4.02pm	10.32am	12.02pm	1.02pm	Automated Pericardial Effusion Analysis Framework: A Virtual Autopsy ALTERNATIVE Using PMCT Imaging Yu Hui Yuan, Faculty of IT, Monash University
4.13pm	10.43am	12.13pm	1.13pm	Streamlining Forensic Autopsies through Mixed Reality and AI Integration Vahid Pooryousef, Faculty of IT, Monash University
4.24pm	10.54am	12.24pm	1.24pm	D-SarcNEET FOR enhanceD assessments of sarcomere maturation Dr Hieu Pham, VinUni-Illinois Smart Health Center & College of Engineering and Computer Science, VinUniversity
4.35pm	11.05am	12.35pm	1.35pm	Investigating EEG markers for responsiveness following surgical noxious stimuli under propofol anaesthesia: A case study Vidushani Dhanawansa, Monash University
4.46pm	11.16am	12.46pm	1.46pm	U-Net-Based Segmentation Model To Improve Muscle Segmentation And Regeneration Tracking Precision Yunshu Chen, Faculty of Medicine, Nursing and Health Sciences, Monash University
4.56pm	11.26am	12.56pm	1.56pm	SESSION THREE Q&A
5.06pm	11.36am	1.06pm	2.06pm	DAY TWO CONCLUDING REMARKS
5.16pm	11.46am	1.16pm	2.16pm	EVENT CONCLUDES