

2021 AI in Healthcare Symposium

An Awakening in Healthcare

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FREE TO REGISTER

An Awakening in Healthcare

As this decade unfolds, healthcare providers face new and urgent demands. The impact of COVID-19 and changing patient expectations are accelerating the need to collaborate and innovate, and expand access to affordable, quality healthcare to all.

This year's AI symposium outlines how artificial intelligence will support this new world, the link between AI and Indigenous culture, new and required research, workforce readiness, and the actions clinicians can take today to shape tomorrow and beyond.

Thursday 27 May 2021
10:00am - 5:30pm | online

The symposium will provide a platform for mutual understanding, enabling us to better explore the challenges, successes, and how AI and machine learning can be integrated into the everyday fabric of healthcare. It brings together healthcare practitioners and inter-disciplinary leaders from academia, industry, and government to showcase the application of AI in response to current and emerging global challenges such as COVID-19 and deliver the essential healthcare required to keep all ages healthy. It will also look at cross-boundary synergies and collaborations between national and international healthcare providers and academic and industrial leaders in AI.

Who should attend?

- Primary, secondary and public health clinicians
- Biomedical and health informatics researchers and students
- Healthcare educators and researchers
- Government officials and policy makers
- Technologists and telehealth providers
- Data analysts
- Medical software and systems developers
- Health informaticians and IT professionals
- Health system administrators and managers

<https://www.scu.edu.au/ai-healthcare/>



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The New World: 10:00am - 12:00pm

Is the workforce ready for an awakening in healthcare?

The Research: 12:30pm - 2:45pm

What do we know and what do we need to know?

Next steps: 3:30pm - 5:30pm

What's required to maximise on AI opportunities?

The New World

10:00am - Welcome Message

Speakers: Professor Mary Spongberg, Professor Julie Jomeen and Dr Sabrina Pit

Meet the day's facilitator and get to know the conference objectives with a welcome address.

10:15am - 10:30am | Topic: AI in the New World

Speaker: Brent Richards, Medical Director of Innovation and Director of Critical Care Research · Gold Coast Hospital and Health Service

While we are fighting the battle against COVID-19 and adjusting to the new normal, technology is helping to rewrite the playbook of the health care industry. Modelling, artificial intelligence, remote monitoring and chat bots are paving the way for a better tomorrow. AI systems have been in place for years, but the inability of patients to visit hospitals due to exposure risk has resulted in an enormous surge in demand for telemedicine. Patients are experiencing first-hand that virtual care is actual care and this cultural shift demands immediate attention to take full advantage.

10:30am - 11:20am | Topic: Ensuring Machine Learning for Healthcare Works for All

Speaker: Dr Leo Celi, Principal Research Scientist, Massachusetts Institute of Technology Clinical Research

The gaps in the medical knowledge system stem from the systematic exclusion of the majority of the world's population from health research. These gaps combined with implicit and explicit biases lead to suboptimal medical decision making which negatively impact health outcomes for everyone, but especially those in groups typically under-represented in health research. Recent developments in machine learning and AI technologies hold some promise to address the issues with the generation of scientific evidence and human decision making. They also, however, have spurred concerns about their potential to maintain if not exacerbate these problems. These concerns must be aggressively addressed by adopting necessary structural reforms to ensure that the field is both equitable and ethical by design.

11:20am - 12:00pm | Topic: Panel - Navigating the New World & Workforce Readiness

Facilitated by: Lucy Shinnars, Course Coordinator Human-computer Interaction and Artificial Intelligence, SCU | Panellists: Dr Leo Celi, Richard Tranter, Brent Richards, Jarrod Belcher

AI has the power to transform how work is done in hospitals and health systems around the country, regardless of size or location. But how ready are we for AI in hospitals and health systems? This panel discussion will explore the changing nature of how staff work, the skills and competencies needed, the technical talent and the leadership required to prioritise AI projects.

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The Research

12:30pm - 1:45pm | Research presentations

Facilitators: Dr Golam Sorwar and Dr Vinh Bui | Southern Cross University

The last few years have seen great advancement in AI application methods and technical discovery, paving the way for future development. Here we offer an opportunity for some of the leading minds in AI and Deep Learning to present their research works.

1:45pm - 2:45pm | Topic: Role of Technology in Managing COVID-19

Facilitator: Professor Darshana Sedera | Southern Cross University

Panellists: Dr. Stephanie Chaousis, Cameron Ballantine and Alan Fox

Throughout this pandemic, technology has answered the call for a new form of public health that illustrates opportunities for enhanced agility, scale, and responsiveness. This panel session will discuss the critical role of technology in managing the COVID-19 pandemic from the healthcare management viewpoint. The panel will share their insights into how in just a few months, the COVID-19 crisis brought about years of change in the way the health sector do their operations. The panel will highlight the role of specific technologies, methodologies and deficiencies in the modern digital technologies and its managing approach in light of the world's biggest health crisis - the COVID-19 pandemic.



CALL FOR PAPERS

AS PART OF THE SYMPOSIUM WE ARE WELCOMING BOTH CONCEPTUAL PAPERS OR EMPIRICAL PAPERS CONTRIBUTING TO AN ENHANCED UNDERSTANDING OF THE ROLE OF AI IN HEALTHCARE TRANSFORMATION.

<https://www.scu.edu.au/ai-healthcare/for-authors>

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Next Steps

3:30pm - 4:00pm | Topic: Data Collection and Handling

Speaker: Dr. Kelvin Ross, CTO - Datarwe, Chairman - KJR, Director - Queensland AI Hub

Addressing health and health care disparities requires the full involvement of organisations that have an existing infrastructure for data collection. This includes hospitals, community health centres, clinical practices and local, state and federal agencies. To identify the next steps toward improving data collection, it is helpful to understand opportunities and challenges in the context of current practices. In some instances, the opportunities and challenges are unique to each type of organisation; in others, they are common to all.

4:00pm - 4:30pm | Topic: Closing the Digital Divide Between Indigenous and Non-Indigenous Australians

Speaker: Mikaela Jade, Founder Indigital

Indigenous Australians have been sharing deep and connected human knowledge for 80,000 years, and the use of AI will support accelerated access to solutions that draw on this invaluable knowledge and expertise. Indigital is Australia's first Indigenous Edu-Tech company, specialising in technology development and digital skills training in augmented and mixed realities, artificial intelligence, machine learning, internet of things and geospatial technologies. Its mission is to close the digital divide between Indigenous and non-Indigenous peoples, by providing a meaningful pathway for Indigenous people into the digital economy and the creation of future technologies.

4:30pm - 5:15pm | Topic: Title: AI in Health: Yesterday, Today and Tomorrow

Speaker: Dr Simon Kos, Industry Executive NSW Health, Microsoft

Artificial intelligence has saturated our popular culture, creating some interesting perspectives and expectations. The role of AI in health is currently in its infancy and its time to ask some hard questions. What is fact and what is fiction? How soon will the impact of AI in health be felt? Which disciplines will be disrupted? How will the roles of clinicians change? How will the experience of healthcare change? This session will use practical examples of AI in health to advance the idea that AI in health is already here and has the potential to accelerate innovation and new models of care.

5:15pm - 5:30pm | Closing Statement

Facilitated by: Dr Sabrina Pit

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DR LEO ANTHONY CELI (KEYNOTE)

Principal Clinical Research Scientist, Massachusetts Institute of Technology (USA)

As clinical research director and principal research scientist at the MIT Laboratory for Computational Physiology, and as a practicing intensive care unit physician, Leo brings together clinicians and data scientists to support research using data routinely collected in the process of care. His group built and maintains the publicly-available Medical Information Mart for Intensive Care (MIMIC) database and the Philips-MIT eICU Collaborative Research Database, with more than 20,000 users from around the world.



DR SIMON KOS (KEYNOTE)

Health Industry Executive, Microsoft Australia & Chief Executive Officer Next Practice

Simon joined Microsoft in 2010 and has worked in digital health for almost twenty years. As a doctor on Microsoft's Health team, he is responsible for clinical strategy and industry engagement. Simon has worked with some of the largest healthcare organisations and most innovative software companies in the world and is currently the CEO of Next Practice, an innovative primary care business focusing on patient experience and digital enablement.



DR BRENT RICHARDS

Director of Innovation and Director of Critical Care Research | Gold Coast Health

Brent is working on ways to expand, understand and interrogate big data sets for clinical understanding, business KPIs and research opportunities, and translating this to patient outcomes. He has co-founded IntelliHQ, a not-for-profit organisation bringing together start-ups, industry partners, researchers and educators to work collaboratively to unlock the potential of AI in healthcare.



MIKAELA JADE

Founder | Indigital

Cabrogal woman, Mikaela Jade formed Australia's first Indigenous Edu-tech company, Indigital, to develop innovative new ways to digitise and translate knowledge and culture from remote and ancient communities. Together with Microsoft and Telstra Enterprises she works with some of the most remote Peoples' on earth using cutting edge digital technologies to translate cultural knowledge within Indigenous communities.



PROFESSOR MARY SPONGBERG

Deputy Vice Chancellor Research | Southern Cross University

Professor Mary Spongberg has strategic responsibility for all research functions, including government and industry partnerships and research training at Southern Cross University (SCU). She is directly responsible for the Office of Research, the Graduate School, Research Institutes and the Environmental Analysis Laboratory (a commercial research enterprise).



PROFESSOR JULIE JOMEEN

Deputy Vice Chancellor Research | Southern Cross University

Professor Mary Spongberg has strategic responsibility for all research functions, including government and industry partnerships and research training at Southern Cross University (SCU). She is directly responsible for the Office of Research, the Graduate School, Research Institutes and the Environmental Analysis Laboratory (a commercial research enterprise).



KELVIN ROSS

CTO - Datarwe, Chairman - KJR, Director - Queensland AI Hub, Director - IntelliHQ

Dr Kelvin Ross has over 30 years of experience in software engineering and enterprise IT applications. Kelvin is Director of IntelliHQ, a non-profit developing the ecosystem for AI innovation in healthcare and he understands the realities of this new age of discovery and the future world of AI to be driven by Generation Z. He is well placed to discuss the opportunities, challenges, and the transformation that is just over the horizon.

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PANELISTS



JARROD BELCHER

Director, Researcher Exchange and Development within Industry (REDI) | MTP Connect

Jarrod Belcher is committed to assisting companies and industries across the Pacific, Asia and Middle East to achieve their potential through skilling workforces. As Director of the \$32 million REDI initiative, Jarrod leverages the expertise of research, training and industry partners to drive skills development and workforce training, through deployment of an integrated, three-pillar plan.



DR STEPHANIE CHAOUIS

Partnerships Manager, Datarwe and Medtech Program Manager, Queensland AI Hub

Stephanie Chaouis, is passionate about using her skills in connecting people and ideas to create powerful, solutions-focussed collaborations that facilitate the incorporation of AI into all fields of research - translating into real world solutions. At Datarwe she is working to develop the world's most comprehensive acute care medical research data platform, enabling medical researchers to develop next-generation Artificial Intelligence (AI) clinical diagnostic tools and technologies.



RICHARD TAGGART

Chief Information Officer | Sydney Local Health District

Before joining Sydney Local Health District as Chief Information Officer, Richard Taggart was the Australia and New Zealand industry lead in healthcare for Apple, leading a team of specialist health information officers managing systems across its five hospitals and three community health centres. Today Richard manages a full team of specialist health information officers to support SLHD's clinical information systems, including clinicians from medicine, nursing, pharmacy and allied health.



CAMERON BALLANTINE

Executive Director Digital Health & Chief Information Officer | Metro South Health.

Cameron Ballantine is a Registered Nurse with post graduate qualifications in Intensive Care. He has practical experience in clinical leadership positions across the public sector and also has a Masters qualification in Health Science. Cameron works closely with clinicians to drive transformation and deliver outcomes. His most recent position has been leading the implementation of the Digital Hospital/ieMR for Metro South Health.



ALAN FOX

Head of Information Systems | Ellume

Alan Fox leads Ellume's Information Systems, including health care professional and consumer use software and the Ellume Cloud system. He also has an essential role in managing Ellume's software development process. Alan has extensive experience in software systems development in both mobile and .net environments. He holds Bachelor of Biomedical Science in addition to post graduate study in Information Systems.

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DR SABRINA PIT

Consultant Research | Health | Education | Analytics | Policy

Sabrina has worked in the education, workforce, ageing, research and health sector for 20+ years. Her research and professional interests include workforce; rural issues; ageing societies; employability; aged care; preventive health; health professional education; digital technology; interprofessional teamwork; social and health outcomes. She has published over 70 papers and is regularly invited to speak at conferences and international meetings such as APEC.



LUCY SHINNERS

Course Coordinator and Nursing Lecturer, Southern Cross University

Lucy Shinnars is a critical care nurse, academic and PhD candidate at Southern Cross University's Faculty of Health. Her research path lies in exploring the impact of artificial intelligence in healthcare, to identify how clinicians can bridge the gap, contribute to its development and harness its power in the delivery of care. Lucy's current project is 'Experiences and perceptions of nurses using Artificial Intelligence in the delivery of healthcare'.



PROFESSOR DARSHANA SEDERA

Deputy Dean and Director, Digital Enterprise Lab | Southern Cross University

Darshana Sedera is a Professor of Information Systems, Associate Dean of Research at SCU's Faculty of Business, Arts and Law and the Director of The Digital Enterprise Lab. He has published his research in the information systems field in over 200 publications in major refereed journals and conferences and has a keen interest in organisational strategy for digital transformation.



DR GOLAM SORWAR

Lecturer, Faculty of Science and Engineering | Southern Cross University

Golam Sorwar is an interdisciplinary researcher whose current research interests include digital health, technology acceptance modelling, multimedia signal processing and artificial intelligence. He has published about 100 peer reviewed articles. He is currently supervising five PhD students. He is also an executive member of the Southern Cross University Human Research Ethics Committee.



DR VINH BUI

MITM Course Coordinator, Faculty of Science and Engineering | Southern Cross University

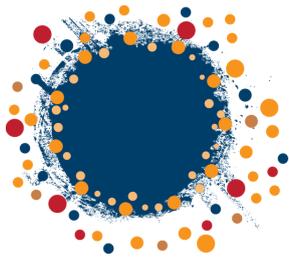
Vinh Bui has significant research and development experience in a number of areas including network modelling, machine learning, computer-guided scenario generation, internet of things and virtual reality. Vinh is currently the course coordinator of the Master of Information Technology Management Program at Southern Cross University.



Southern Cross University

Southern Cross University is powered by passion and driven by excellence. Deeply rooted in its regional communities, it demonstrates that world-class research, teaching and learning thrives outside metropolitan centres. Campuses, at Lismore in the Northern Rivers of New South Wales, on the Gold Coast across from Kirra Beach and in picturesque Coffs Harbour, are the envy of Australia. Whale-watching from a Gold Coast classroom or spotting a koala from a Lismore lab are part of the unique Southern Cross experience.

The academic structure of Southern Cross is built upon four faculties - the Faculty of Business, Law and Arts, the Faculty of Science and Engineering, the Faculty of Health and the Faculty of Education. All faculties have supported this symposium in one way or another.



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The Centre for Healthcare Knowledge & Innovation is a network of stakeholders who come together to exchange knowledge and develop joint action to bring about change. Partners of the Centre recognise the need to support the health and social care sectors to push the boundaries and explore new frontiers in health.

The Centre aims to break down siloes and create an environment in which knowledge and innovation can thrive. It supports system stewardship by exploring new models of care and it builds capacity of clinical and consumer skills in leadership, change management and improvement science by bringing national and international best practice to North Coast NSW.

The Centre drives integrated care by delivering information on the ideas and technologies shaping the future of health and social care. Partners include:



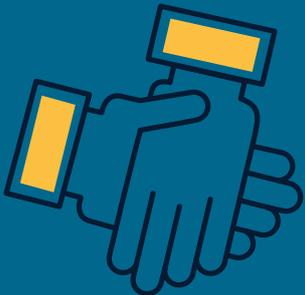


Feros Care has the privilege of supporting seniors and people living with disability who are determined to squeeze the most from every day. What Feros cares about most is helping people live bolder lives. Healthier. Better connected. More active. More fulfilling. feroscare.com.au



Queensland AI Hub is working to position Australia as a trusted global leader in AI creation through strategy, awareness and education. Established in April 2020, it brings regions, innovation hubs, universities, industry and government talent together to maximise people development, skills utilisation, investment and collective competitive edge on a global scale. qldaihub.com

SPONSORSHIP



**AS PART OF THE SYMPOSIUM WE
ARE OFFERING TWO
SCHOLARSHIPS FOR SCU!**

To learn more contact:

darshana.sedera@scu.edu.au

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