2024 Australian e-Health Research Colloquium

Tuesday 19th March 2024

RBWH Education Centre, Block 1, Royal Brisbane and Women's Hospital, Herston QLD 4029

PROGRAM

Time zone for this event is AEST

08:30   **Registration, tea & coffee**

09:00   *Welcome and introduction*
David Hansen, CEO, Australian e-Health Research Centre, CSIRO

Acknowledgement of country
Andrew Goodman, Australian e-Health Research Centre, CSIRO

SESSION 1:   *Chair: Richard Royle, Chair, Australian e-Health Research Centre*

09:15   *Diabetes-related foot ulcer prevention*
Navin Cooray, Australian e-Health Research Centre, CSIRO

09:25   *Towards personalized digital health interventions: Predicting and explaining disengagement with machine learning*
Aida Brankovic, Australian e-Health Research Centre, CSIRO

09:35   *Scaling up Genomics: detecting polygenic drivers of complex disease*
Natalie Twine, Australian e-Health Research Centre, CSIRO

09:45   *Demographic and contextual factors associated with ED demand and Access Block*
Justin Boyle, Australian e-Health Research Centre, CSIRO

09:55   *Dr ChatGPT tell me what I want to hear: How different prompts impact health answer correctness*
Bevan Koopman, Australian e-Health Research Centre, CSIRO

10:05   *Key note: Standards: The foundation for healthcare AI*
Mark Braunstein, visiting scientist, Australian e-Health Research Centre, CSIRO

10:30   **Morning refreshments, poster displays and demonstrations**

SESSION 2:   *Chair: David Hansen, Australian e-Health Research Centre*

11:00   *The Australian Government Digital Health Blueprint – A 10-year vision for a more connected and sustainable health system*
Simon Cleverly, Assistant Secretary, Digital Health Branch Commonwealth Department of Health and Aged Care

11:20   *Sparked-Accelerating interoperability in Australia*
Danielle Tavares-Rixon, Australian e-Health Research Centre, CSIRO
Michael Hosking, Australian e-Health Research Centre, CSIRO

11:40   *HIE 2.0 on FHIR*
James Agnew, Chief Technology Officer, SMILE Digital Health

12:05   *Artificial Intelligence in health care – so much more than digital*
Tanya Kelly – Deputy Director General, eHealth Queensland

12:30   Announcement – AEHRC AI report release – David Hansen

12:35   Panel discussion: AI and Interoperability: Where will we be in 5 years?
Chair: David Hansen, Australian e-Health Research Centre, CSIRO
Tanya Kelly – Deputy Director General, eHealth Queensland
Simon Cleverly, Assistant Secretary, Digital Health Branch Commonwealth Department of Health and Aged Care
James Agnew, Chief Technology Officer, SMILE Digital Health
Kate Ebrill, Australian e-Health Research Centre, CSIRO
Denis Bauer, Australian e-Health Research Centre, CSIRO

13:00   Lunch, poster displays and demonstrations

SESSION 3:   *Chair: Marlien Varnfield, Australian e-Health Research Centre*

13:45   *Enhancing bacterial infection prediction in critically ill patients by integrating clinical text*
Jinghui Liu, Australian e-Health Research Centre, CSIRO

14:00   *System dynamics modelling as a One Health approach to address antimicrobial resistance*
Yen Pham, Australian e-Health Research Centre, CSIRO

14:15   *Diffusion models for medical image synthesis*
Jenna Supper, Vacation Student, Australian e-Health Research Centre, CSIRO

14:30   *Functional Brain Differences at School Age in Children Born Very Preterm*
Javier Urriola, Australian e-Health Research Centre, CSIRO

14:45   *Private and hallucination-resistant synthetic data generation with logic-solvers*
Mark Burgess, Australian e-Health Research Centre, CSIRO

15:00   Evolving excellence: Snomio and the Next Generation of Medicines Terminology Authoring
Dion McMurtrie, Australian e-Health Research Centre, CSIRO

15:15   Wine & cheese, poster displays and demonstrations

15:45   Close and a celebratory drink