



# Defence Artificial Intelligence 2023 Symposium

27 November 2023

The University of Queensland, Brisbane

Sir Llew Edwards Building, 132 Lecture Theatre (14 – 132)

Building AI capabilities in Australia is critical for the Defence sector. Decision superiority, the ability to make decisions faster and with higher degrees of accuracy, will increasingly benefit from advancements in sovereign AI capabilities and enable Defence to process large quantities of data in complex operating environments. These advancements in AI will provide data-driven performance advantages to the Australian Defence Force.

DAIRNet is pleased to be hosting the first Defence AI Symposium, as part of the 36th Australasian Joint Conference on Artificial Intelligence (AJCAI). The Symposium is a forum for the exchange between the Australian Defence and AI communities. GPCAPT David Clyde (Joint Capability Group), will be delivering the keynote address “Assurance of AI systems to enable trusted decision support”. Speakers from academia and Defence will also present their most recent research in responsible AI, contextual awareness, machine learning and Large Language Models (LLM).

The Defence AI Symposium is an exciting opportunity for Defence and AI researchers to come together and explore priorities, opportunities and commonalities.

DAIRNet is an initiative through the Department of Defence and Next Generation Technologies Fund and is managed in partnership with the University of South Australia.

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# Program

## Session

9:00 – 9:45

### Welcome and introduction - AI Program

Dr Mel McDowall (Director, DAIRNet)

Dr Rob Hunjet (DSTG AI Program)

### Keynote

GPCAPT David Clyde (Joint Capability Group)

“Assurance of AI systems to enable trusted decision support”

9:45 – 10:15

### Break

10:15 – 12:15

### Responsible AI. Advanced Machine Learning Techniques

Dr Sebastien Wong (DSTG)

Dr Liming Zhu (Data 61 CSIRO)

Dr Kate Devitt (University of Queensland)

Dr Zena Assaad (Australian National University)

Prof Tim Miller (University of Queensland)

12:15 – 13:15

### Lunch

13:15 – 14:45

### Contextual Awareness. Large Language Models

Prof Hussein Abbass (University of New South Wales)

Prof Flora Salim (University of New South Wales)

Dr Glennn Moy (University of Queensland)

14:45 – 15:15

### Break

15:15 – 16:30

### Panel - AI and Capability

WGCDR Rob Seabrook (Joint Capabilities Group)

WGCDR Mike Moroney (Air Force)

LTCOL Adam Hepworth (Army)

CMDR Leigh Jackson (Navy)

### Closing remarks

16:30

### Networking