

International Defence Excellence and Security Symposium (IDEaS)
Swinburne University of Technology, Melbourne, Australia
21 November 2023 (Australian Eastern Daylight Time (AEDT))
<https://ieeideas.org>

Australian Eastern Daylight Time (AEDT)

07:30	Registration	Guest arrival
08:00		Guests to be seated
08:05	Professor Saeid Nahavandi	MC to start the session
08:10	Professor Karen Haggood	VC / DVCR to welcome guests
		Welcome to Country
08:15	Major General Andrew Bottrell	Opening address
08:30	Group Captain Patrick Joseph Del Guidice, Royal Australian Air Force	Defence and the Space Domain
08:40	Dr. Ming Hou, Defence Research and Development Canada	Human-AI Teaming
08:50	Dr. Jessie Y.C. Chen, U.S. Army DEVCOM	Agent Transparency and Human-Agent Teaming
09:00	Lieutenant Colonel Edgar Reuber, EUROCONTROL and seconded German Air Force	Requirement Specification for NATO RPAS Sense and Avoid Systems
09:10	Dr Jurriaan van Diggelen, TNO, Netherlands	Levels of Meaningful Human Control in Responsible Military Artificial Intelligence
09:20	Dr Dale Richards, Thales, UK	Measuring Success – Human-Autonomy Teaming
09:30 – 10:15	Discussion panel: Moderator – Prof. Gary Hogan AM, Panellist: Major General Kathryn Toohey, Australian Army, Air Marshal Mel Hupfeld, RAAF, Vice Admiral Michael Noonan, RAN	Improving test and evaluation efficiency and effectiveness in managing risk for capability equipment for defence and security operations
10:15 – 10:30	Coffee break	
10:30	Kevin Di Filippo, Lockheed Martin, Canada	North star: an Alternative Position, Navigation, and Timing (A-PNT) Solution
10:40	Professor M. Saif, University of Windsor, Canada	Innovations in Naval Cyber Protection
10:50	Dr. Edward Tunstel, Motiv Space Systems, Inc., USA	Toward Operationally Responsive On-Orbit Robotic Capability
11:00	Professor A. Homaifar A&T State University, USA	Opportunities and Challenges for Operationalizing Urban Air Mobility
11:10	Lieutenant-Colonel David Dunwoody, Royal Canadian Air Force	Addressing Biases in Artificial Intelligence
11:20	Professor H. Garmestani, Georgia Institute of Technology, USA	Advanced Manufacturing in Metal 3D Printing - Microstructure and Materials Computational Modeling
11:30	Dr. Simon Reay Atkinson, Captain, Royal Australian Navy, Australia	Scientific Discovery Level: A Tool for Assessing Technology Readiness Levels
11:40	Jawahar Bhalla	A Conceptual Systems Engineering Framework for AI-Intensive Systems with a Focus on Data through the Life-Cycle
11:50	Phil Crothers, Boeing Australia	MQ28 Development
12.00	Michael Hardy, KBR, Australia	Capability stewardship underpins Defence+Industry+Academia innovation
12:10	Dr. Andrew Lucas, AOS	“Bottom-up” or “Top-down”, which AI is best for defence?
12:20	Dr. Braden McGrath, MITRE Australia	Does AUKUS need a FFRDC?
12:30 – 14:00	Lunch and networking	Poster presentations
14:00 – 14:30	Wrap up and concluding remarks	