

COGNITIVE WORKLOAD FOR PERSONNEL SELECTION, ANALYSIS OF HUMAN-MACHINE TEAMING AND PERFORMANCE EVALUATION



THE UNIVERSITY OF
NEWCASTLE
AUSTRALIA

We use state-of-the-art mathematical analysis techniques and experimental measurement tools to accurately and objectively assess operator performance. We have experience applying these methods to assess military personnel performance in a variety of situations. The methods can help identify the right person for the right role, fatigue, loss of situational awareness and poor human-machine interface optimisation.

COMPETITIVE ADVANTAGE

- Improve personnel selection
- Optimise human-machine teaming
- Digitally monitor fatigue and loss of situational awareness

SUCCESSFUL APPLICATIONS OF RESEARCH

- Evaluate real-time augmented reality displays used by military rotorcraft pilots
- Augment selection procedures for tactical combat controller training programs

PARTNERS

- Airbus Defence and Space
- Royal Australian Air Force (RAAF) Williamtown No. 4 Squadron
- Hensoldt Sensors GmbH

CAPABILITIES AND FACILITIES

- Objective fatigue measurement
- Objective operator performance measurement
- Advanced mathematical modelling and data analysis

MORE INFORMATION

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