

TrustMATE™

The MATE you can rely on when reliance is needed most.



WHAT IS IT?

TrustMATE™ is a complete human-AI trust calibration solution mitigating overreliance or under reliance on AI.

TrustMATE™ is designed to ensure that trust, and by extension reliance, on automation is calibrated. It consists of four main components: autonomy trustworthiness modeling, pilot trust modeling, a component that compares the two to identify miscalibration, and a human-machine interface that serves as an intervention tool to influence calibration.

HOW DOES IT WORK?

TrustMATE™ uses performance data, questionnaires, interviews, as well as behavioral and physiological responses to comprehensively assess and model operator trust calibrated to the AI trustworthiness through a multi-modal transparency interface.

WHAT DOMAINS CAN IT IMPACT?

Air, Ground, and Sea Platforms ♦ Space Exploration ♦ Autonomy ♦ Cyber ♦ Human Systems ♦ Medical ♦ Regulation and Policy

Capability Overview

- **Delivers a complete human-AI trust calibration solution** mitigating overreliance or under reliance on AI by processing and filtering the human's trust needs and the AI's state in real time.
- **Achieves trust assurance** by comprehensive assessment of operator trust in AI using performance, questionnaires, interviews, and behavioral and physiological responses.
- **Leverages data collected with experts** to construct a model using machine learning to capture dynamic changes in trust over time as a person interacts with AI.
- **Integrates seamlessly with operational, training, and wargaming systems** to present trustworthiness, and employs the best communication modality within each context, such as visual HMD, auditory alerts, and tactile or haptic cues.

Proven Use Cases

- AI interface design
- Aviation dogfighting
- Battle management
- Human-agent teaming
- Nuclear power operations

Let's Chat!

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