

Train your Warfighter to Search Like a Scout Sniper



ADAPT-AAR is a comprehensive perceptual performance assessment tool designed to aid students and instructors in improving search and detection performance. This is accomplished by measuring perceptual performance via eye tracking, diagnosing performance deficiencies and providing tailored feedback and AAR displays based on trainee performance. By integrating features such as the presentation of expert scans and the capability for a trainee to compare their scan to an expert's, ADAPT-AAR can aid in training a Warfighter to search like a Scout Sniper. To accomplish this, ADAPT-AAR analyzes trainee's performance data, compares it against established performance standards and expert performance profiles to determine sources of performance problems, and automatically provides feedback to remediate performance issues via AAR displays that highlight performance issues for instructors and trainees. Tailoring feedback to specific trainee performance decrements can accelerate learning.

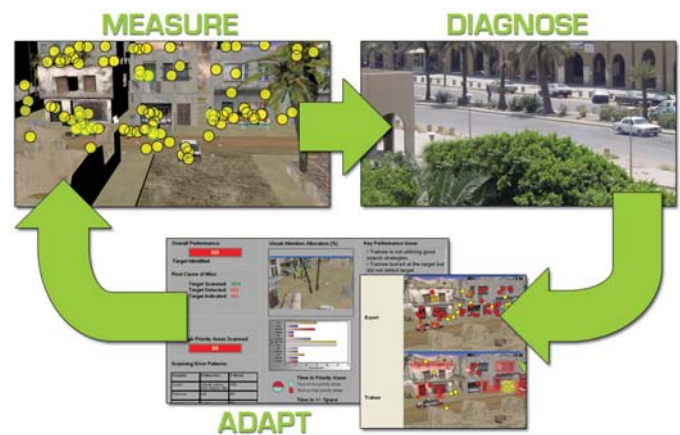
ADAPT-AAR Functionality

ADAPT-AAR enhances training through:

Measure. ADAPT-AAR includes a metrics suite of both behavioral and eye tracking metrics that capture trainee's performance on search, detection and recognition skills.

Diagnose. ADAPT-AAR analyzes performance post-scenario to diagnose specific performance deficiencies based on root cause analysis, error patterns and expert comparison.

Adapt. ADAPT-AAR's adaptation component presents customized AAR feedback modules which highlight key performance problems and allow a trainee to compare their scan to an expert scan.



What do I get?

ADAPT-AAR can be integrated with static images, which allows any photograph from the field to be imported and turned into a training scenario. ADAPT-AAR can also integrate with a virtual training system to transform practice sessions into individualized training opportunities, thus accelerating learning. ADAPT-AAR can present **pre-training** such as the presentation of expert scan patterns, **assess performance** during training and present **AAR displays** that summarize perceptual performance and **Feedback** that allows a trainee to compare their scan to an expert's and hear expert commentaries.

ADAPT-AAR custom solutions are available today. ADAPT-AAR packages will be released in mid-2010. Call for quote.

ADAPT-AAR can be used to augment instructors in a busy schoolhouse environment or allow training opportunities in the absence of an instructor (e.g., in a deployed or home station setting). Working with Design Interactive, Inc., ADAPT-AAR can be custom-fit for your training needs and seamlessly integrated into your training system.

Filling Performance Assessment Gaps

ADAPT-AAR provides tools previously unavailable:

- **Expert Demonstration.** Capturing expert scan patterns quickly and easily using ADAPT-AAR allows demonstration of previously unobservable perceptual skills.
- **Granular Perceptual Performance Measurement.** Near real time correlation of eye tracking data with scenario objects facilitates comprehensive understanding of trainee perceptual performance (e.g., What objects are being visually interrogated?).
- **Automated Performance Diagnosis.** ADAPT-AAR's embedded root cause analysis and error pattern diagnosis provides instructors and trainees with the optimal level of valuable and actionable performance data to facilitate improvements in real time training.
- **Tailored Feedback.** Specific focus on trainee errors supports individualized and accelerated learning.

ADAPT-AAR Flexibility and Reusability

ADAPT-AAR has a flexible architecture.

- **Multiple Platforms.** ADAPT-AAR can integrate with digital media ranging from photographs to simulation-based training systems.
- **Multiple Types of Performance Data.** ADAPT-AAR supports collection of performance metrics, including system events, behavioral, and oculomotor (i.e., eye tracking) metrics.

ADAPT-AAR BENEFITS

- Higher Levels of Training and Readiness
- Increased Throughput
- Decreased Instructor Time
- Easily Deployable
- Comprehensive diagnosis capability



Current use of ADAPT-AAR

ADAPT-AAR is currently being integrated with the Deployable Virtual Training Environment Combined Arms Network (DVTE-CAN), a US Marine Corps. deployed training system. Once complete, this integration of ADAPT-AAR will assess perceptual skills during combined arms missions and provide tailored instructor debriefs and feedback to address perceptual skill decrements.

About Design Interactive, Inc.

Design Interactive, Inc. is a woman-owned small business based in Central Florida's High Tech Corridor. We provide engineering services and consulting in Usability Engineering/User-Centered Design, Training Systems Design and Evaluation, Human-Systems Integration (HSI) and Next-Generation HSI Research. We deliver interactive design and evaluation assistance throughout the development lifecycle. Our ambition is to provide measurable, system and user performance improvements for developers of HSI systems, software solutions and consumer electronics.

CONTACT

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