

IAC Mission Success Stories



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HSIAC

Story 1

Story 2

Review and Analysis of Auditory Workload

Research in human performance often employs workload assessment tools such as NASA Task Load Index (TLX) and Subjective Workload Assessment Tool (SWAT). In addition to providing an overall workload score, these tools can also be used to divide workload into separate components (e.g., NASA-TLX separates workload into six components). While these are generalized workload assessment tools, the Army Research Lab (ARL) tasked Human Systems IAC to search for a specific tool to measure the workload associated with auditory processing. Such a scale, or information on how to develop such a measure, would be used to relate audio display or design and soldier workload and then to predict changes in soldier performance from changes in workload. In support of ARL's request, the Human Systems IAC produced a Review and Analysis (R&A) on auditory workload assessment.

[Continued on Story 1](#)

Updating Strength Selection Criteria for the HQ Air Force Personnel Center (AFPC)

The make-up and duties of career fields, or Air Force Specialties (AFSs), do not remain constant and strength requirements must be updated. Through the Air Force Research Laboratory (AFRL) Human Effectiveness Directorate, the Human Systems Information Analysis Center (HSIAC) provides data gathering, analysis, and technical support to Headquarters Air Force Personnel Center (HQ AFPC), which is responsible for maintaining the Strength Aptitude Test (SAT) criterion for each enlisted AFS. The SAT is a classification tool for matching the physical strength abilities of individuals with the physical strength requirements of jobs in the Air Force.

[Continued on Story 2](#)

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IAC Mission Success Stories



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Story 1

Story 2

Review and Analysis of Auditory Workload (continued)

In producing this R&A, the Human Systems IAC first sought to determine whether a measure of auditory workload existed. To this end, Human Systems IAC conducted an exhaustive literature search and contacted the recognized leaders in both workload and auditory research. Based on the search results and expert interviews, it was determined that a metric of auditory workload did not exist.

The Human Systems IAC then provided recommendations for the development of a research plan whose implementation would result in an auditory workload assessment methodology. Human Systems IAC recommended the adaptation of the NASA-TLX and included suggestions for how to translate this metric into an auditory workload measure. The preliminary steps necessary to test and validate the resulting measure were also provided to ARL. Human Systems IAC's research plan is currently being employed by ARL as it conducts the recommended validation studies on the new auditory workload metric.

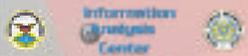
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