ABSTRACT

The HEMAP (Human Engineering Modeling and Performance) Lab is a joint effort between the Industrial and Human Engineering group and the KAVE (Kennedy Advanced Visualizations Environment) group. The lab consists of a sixteen-camera system that is used to capture human motions and operational tasks, through the use of a Velcro suit equipped with sensors, and then simulate these tasks in an ergonomic software package known as Jack. The Jack software is able to identify the potential risks/...Read more on the last page.

ANTICIPATED BENEFITS

To NASA funded missions:
Improved ground processing for missions for improved human performance.
Read more on the last page.
DETAILLED DESCRIPTION

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TECHNOLOGY DETAILS

Human Engineering Modeling And Performance Lab (HEMAP) Study

Technology Maturity

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Applied Research, Development, Demo & Test

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This technology is categorized as a hardware system for other applications

- Technology Area
  - TA11 Modeling, Simulation, Information Technology & Processing (Primary)
  - TA06 Human Health, Life Support & Habitation Systems (Secondary)
  - TA13 Ground & Launch Systems Processing (Additional)

CAPABILITIES PROVIDED

HEMAP model is to improve design, performance and safety of ground processing tasks.

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IMAGE GALLERY

Human Engineering Modeling And Performance Lab (HEMAP) Study
ABSTRACT (CONTINUED FROM PAGE 1)

hazards.