

Research Activities

The Ames HCI Group contributes to the development of measurably better NASA software through careful application of HCI methods. We follow an iterative process that consists of user research, interaction design, and usability evaluation. It is commonly assumed that HCI is exclusively focused on the interface. We are focused on the users and their goals in order to build the right tool which means that we are focused on functionality as well as interface.

Mixed-Initiative Planning

Planning for space operations is complex and requires consideration of many kinds of information. Tools built to support planning must balance power and usability, and must offer some level of integration with other tools and information sources that support a mission.

Collaborative Decision Making

We study how to build tools to manage data, facilitate communication, and support decision making in the aerospace domain. We place a particular emphasis on understanding how decision support systems can be integrated with the various processes and organizational structures present at NASA.

New Concepts in HCI for Aerospace and Planetary Exploration

In collaboration with Carnegie Mellon University, we explore emerging technologies and concepts that may shape the future of space exploration. Example domains include: Human Performance Modeling, Wearable Computing, Human-Robot Interaction, and Planetary Operations.

MSL Curiosity
SMC-IT Workshop

The Applied HCI Group is part of the Human-Systems Integration Division part of the Exploration Technology Directorate.

We work at the Ames Research Center for NASA.

Curator: Don Kalar NASA Official: Matthew Sharpe

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Last Updated: August 2, 2012

