

Title: Human-Machine Interface (HMI) for Unmanned Aviation
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Abstract: The unmanned aircraft systems (UAS) community is progressing towards greater levels of autonomy in the belief that removing humans from the UAV control loop will significantly reduce both labor costs and the frequency of human error. However, other considerations may outweigh these theoretical benefits. Two years ago, at CERl's 1st Human Factors workshop, this author discussed the continued need for human control of unmanned systems and presented a summary of Human-Machine Interface (HMI) issues that were not being addressed by UAS designers. This year's presentation will review the issues presented in 2004, provide an update on the progress made to date and highlight opportunities for both academia and industry to solve remaining issues of concern.