

Conformal Flight Path Symbology For Head Up Displays

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@inproceedings{Ververs1998ConformalFP, title={Conformal Flight Path Symbology for Head-Up Displays: Defining the Distribution of Visual Attention in Three-Dimensional Space}, author={P. Ververs}, year={1998} } P. Ververs Published 1998 Engineering An extensive investigation of the format for head-up ...

[PDF] Conformal Flight Path Symbology for Head-Up Displays ...

The study was designed to investigate the format for symbology on HUDs and the performance effects of using conformal and partially conformal symbology to support the pilots' tasks. In addition, two different methods were investigated for supporting the pilots' transition between the task of flying and the task of landing.

Conformal flight path symbology for head-up displays ...

Conformal Flight Path Symbology for Head-Up Displays: Defining the Distribution of Visual Attention in Three-Dimensional Space . By Patricia May Ververs. Abstract. 193 p.Thesis (Ph.D.)--University of Illinois at Urbana-Champaign, 1998.Theories of allocation of attention were used to interpret the experimental findings. Attention was found to be ...

Conformal Flight Path Symbology for Head-Up Displays ...

Conformal Flight Path Symbology for Head-Up Displays: Defining the Distribution of Visual Attention in Three-Dimensional Space: Author(s): Ververs, Patricia May: Doctoral Committee Chair(s): Wickens, Christopher D. Department / Program: Psychology: Discipline: Psychology: Degree Granting Institution: University of Illinois at Urbana-Champaign: Degree: Ph.D. Genre:

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Conformal Flight Path Symbology For Head Up Displays

Location of flight symbology was manipulated head-up vs. head-down while controlling for optical distance and symbology format. Pilots were assigned to one of two symbology sets, conformal and non-conformal. Each pilot flew half of the trials with the symbology presented in a head-up location and half with the symbology located head-down.

Conformal Symbology, Attention Shifts, and the Head-Up ...

symbology is non-conformal in nature. The command-guidance cue is similar to the command-guidance symbology commonly used for maintaining flight path in the air [5]. The inner circle, the command-guidance cue, moves left and right in relation to the outer circle (fixed aircraft reference symbol) based on taxiway centerline deviation and deviation rate.

HUD Symbology for Surface Operations: Command Guidance vs ...

Head-up display is one of the important subsystems of aircraft avionics suite for enhancing pilot situational awareness for smooth and safe gate-to-gate operations especially during takeoff,...

(PDF) DEVELOPMENT OF HUD SYMBOLOGY FOR ENHANCED VISION SYSTEM

Conformal versus nonconformal symbology and the head-up display Conformal versus nonconformal symbology and the head-up display Long, Jeffry 1994-06-10 00:00:00 ABSTRACT Thirty-two pilot subjects flew instrument approaches in a visually high-fidelity simulator. Location of flight symbology was manipulated while controlling for optical distance and symbology format.

Conformal versus nonconformal symbology and the head-up ...

In two experiments we examined a number of related factors postulated to influence head-up display (HUD) performance. We addressed the benefit of reduced scanning and the cost of increasing the number of elements in the visual field by comparing a superimposed HUD with an identical display in a head-down position in varying visibility conditions. We explored the extent to which the ...

Superimposition, Symbology, Visual Attention, and the Head ...

the displayed symbols and their real-world referents are called conformal HUDs. Thus a conformal HUD with a flight-path symbol can explicitly show the pilot where the aircraft is going relative to the surrounding world. In contrast, a pilot flying with conventional flight instruments must infer the aircraft ' s flight path

HUD With a Velocity (Flight-Path) Vector Reduces Lateral ...

The results revealed that, for flight path control, there was generally a cost associated with head-down location. The magnitude of this cost was relatively larger for conformal than for non-conformal symbology. Head-up presentation resulted in faster transition from instrument to visual flight references, but slower response to the far domain ...

Conformal versus nonconformal symbology and the head-up ...

Method and apparatus for conformal runway alignment on a head up display ... The preferred application is for head up display systems during instrument flight conditions but can also be used on head down displays to provide proper correlation between the synthetic runway and the flight path vector symbol. PTO PTO PDF Espace: Google: link PDF ...

Method and apparatus for conformal runway alignment on a ...

In both applications, 2D symbology was used to provide flight data such as airspeed, attitude, altitude, and heading. The 3D symbols were used to mark safe landing zone height and area over the ...

(PDF) HUD Symbology for Surface Operations: Command ...

Because the GHD is highly integrated with the Garmin flight deck, consistent symbology is utilized between both systems so pilots experience a near-seamless transition when flying with the primary flight display (PFD) or with the GHD.

Garmin Head-Up Display Takes Flight on Cessna Citation ...

HONG KONG -- Benson Wong Wai-kwok took his first-ever flight on Dragonair -- the predecessor to Cathay Dragon -- 27 years ago, forgoing the train and flying from Beijing back to his native Hong ...

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