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Methods for the Development of Shipboard Habitability Design Criteria. A Report on Subjective Response to Lighting and Color in Interior Space: A Study of Ships' Messing Areas Jul 1974 66 pages

Authors: Craig McArt; Hugo Blasdel; Sami Hassid; CALIFORNIA UNIV BERKELEY DEPT OF ARCHITECTURE

Full Text

This study investigates the perceptual and affective aspects of **lighting** and color applications in the messing areas of Navy ships by means of a literature survey and four **experiments**. The literature survey summarizes current work on the influence of color and **lighting** on the occupants of an interior space, and on the occupants perception of size, distance, temperature and ... a demountable scale model which was constructed to allow for variation in color scheme and **lighting** arrangement. Further, the study examines methods for the identification of user requirements and ...

Heliport Lighting - Technology Research Nov 1998 45 pages

Authors: Ralph d. Kimberlin; J. P. Sims; Thomas E. Bailey; SCIENCE APPLICATIONS INTERNATIONAL CORPARLINGTON VA

Full Text

This document reports on the initial phase of a program to develop a cost-effective heliport **lighting** system for Global Positioning System (GPS) helicopter approaches. The investigation into **lighting** technologies shows that many of the currently available technologies would be effective. These include: ... strobes, cold cathode strobes, identification beacons and point light sources. Results showed that furture **experiments** with helicopter GPS approach **lighting** arrays should refine the geometric pattern of the light sources, the spacing of the light sources ...

Experiments in Multiple-Baseline Stereo Aug 1992 37 pages

Authors: Tomoharu Nakahara; Takeo Kanade; CARNEGIE-MELLON UNIV PITTSBURGH PA SCHOOL OF COMPUTER SCIENCE

Full Text

This paper presents the results of our **experiments** with a unique multiple-baseline stereo technique. This algorithm for producing precise, unambiguous depth maps from a set of multiple stereo pairs was developed by Okutomi and Kanade. Early versions of ... to perform well under controlled conditions in the Calibrated Imaging Laboratory (CIL). in this paper, the algorithm is further applied to complex outdoor scenes with variable **lighting** conditions and large depth ranges. While Okutomi and Kanade used stereo pairs acquired by moving a camera horizontally, we also investigated the use of stereo ...

Altitude Cuing Effectiveness of Terrain Texture Characteristics in Simulated Low-Altitude Flight Mar 1995 48 pages

Authors: Harold D. Warner; Gary L. Serfoss; David C. Hubbard; DAYTON UNIV OH RESEARCH INST

Full Text

Two **experiments** were conducted to determine the altitude cuing effectiveness of various terrain texture characteristics in simulated low- altitude flight. In Experiment 1, we compared the effects of ... used, direction of altitude change, and two levels of texture contrast that simulated normal daytime and dawn/dusk **lighting** on the detection of change in altitude. We again observed that descents were more discriminable than ascents, but unlike the first experiment, performance did not vary as a function of texture. Further, simulated dawn/dusk terrain **lighting** did not adversely affect performance.

Long Duration Exposure Facility (LDEF) Contamination Study Oct 1993 16 pages

Authors: Karen P. Scott; ARIZONA UNIV TUCSON OPTICAL SCIENCES CENTER

Full Text

... this portion of the contamination project was to provide early documentation of the contamination level on LDEF **experiments** before shipment and disassembly by the principle investigators (PI). 35% of experiment trays located ... were performed with a Model BHMJ Nomarski microscope which had also darkfield and oblique **lighting** capabilities. The optical measurements were documented by video and 35-mm cameras that could be attached ... of film (24 exposure) were taken. A full list of all trays and **experiments** observed is presented in Appendix C. Due to the high volume of data, a short 10-min. Video has ...

Fast, Reliable Head Tracking Under Varying Illumination Aug 1999 8 pages

Authors: Marco La Cascia; Stan Sclaroff; BOSTON UNIV MA DEPT OF COMPUTER SCIENCE

Full Text

... as a texture mapped cylinder. Tracking is formulated as an image registration problem in the cylinder's texture map image. To solve the registration problem in the presence of **lighting** variation and head motion, the residual error of registration is modeled as a linear combination of texture warping templates and orthogonal illumination templates. Fast ... precise initial fit of the model; the system is initialized automatically using a simple 2D face detector. The only assumption is that the target is facing the camera in the first frame of the sequence. **Experiments** in the tracking are reported.

Infrared Methods for Daylight Acquisition of LEO Satellites Mar 2004 128 pages

Authors: Joel E. Nelson; AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OH SCHOOL OF ENGINEERING AND MANAGEMENT

Full Text

... orbiting (LEO) satellites: the LEO Raven. Tracking LEO objects presents several new challenges, most notably the speed of the satellite relative to the star- field and the **lighting** conditions. The current system works in the visible light band that requires terminator tracking conditions where the ground station is in the dark and the satellite is solar ... , the first LEO Raven is being designed to use infrared light bands for daylight tracking. This thesis presents the results of risk- reduction daylight astrometry **experiments** using the Maui Space Surveillance Site's Daylight Acquisition Sensor.

Creation of Visible Artificial Optical Emissions in the Aurora by High- Power Radio Waves Feb 3, 2005 5 pages

Authors: Todd R. Pedersen; Elizabeth A. Gerken; AIR FORCE RESEARCH LAB HANSCOM AFB MA SPACE VEHICLES DIRECTORATE

Full Text

... has been envisaged since the early days of radio exploration of the upper atmosphere, with proposed applications ranging from regional night-time street **lighting** to atmospheric measurements. Weak optical emissions have been produced for decades in such ionospheric "heating" **experiments**, where they serve as key indicators of electron acceleration, thermal heating, and other effects of incompletely understood wave-particle interactions in the plasma under conditions ...

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