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Nota di contenuto Cognitive Approaches in HCl Design -- Towards Cognitive-Aware

Multimodal Presentation: The Modality Effects in High-Load HCI --Supporting Situation Awareness in Demanding Operating Environments through Wearable User Interfaces -- Development of a Technique for Predicting the Human Response to an Emergency Situation -- A Dynamic Task Representation Method for a Virtual Reality Application -- An Investigation of Function Based Design Considering Affordances in Conceptual Design of Mechanical Movement -- CWE: Assistance Environment for the Evaluation Operating a Set of Variations of the Cognitive Walkthrough Ergonomic Inspection Method -- The Use of Multimodal Representation in Icon Interpretation -- Beyond Emoticons: Combining Affect and Cognition in Icon Design -- Agency Attribution in Human-Computer Interaction -- Human-UAV Co-operation Based on Artificial Cognition -- Development of an Evaluation Method for Office Work Productivity -- Supporting Cognitive Collage Creation for Pedestrian Navigation -- Development of a Novel Platform for Greater Situational Awareness in the Urban Military Terrain -- The User Knows: Considering the Cognitive Contribution of the User in the Design of Auditory Warnings -- Interaction and Cognition -- The Influence of Gender and Age on the Visual Codes Working Memory and the Display

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Sommario/riassunto

Vehicle -- Critical Interaction Analysis in the Flight Deck -- Understanding the Impact of Rail Automation -- Cognitive Workload as a Predictor of Student Pilot Performance -- Direct Perception Displays for Military Radar-Based Air Surveillance -- A Selection of Human Factors Tools: Measuring HCI Aspects of Flight Deck Technologies.

This book constitutes the refereed proceedings of the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2009, held in San Diego, CA, USA, in July 2009, within the framework of the 13th International Conference on Human-Computer Interaction, HCII 2009, together with 10 other thematically similar conferences. The 66 revised papers presented were carefully reviewed and selected from numerous submissions. The book has been split into the following four topical sections: cognitive approaches in HCI design, interaction and cognition, driving safety and support, and aviation and transport.