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Nota di contenuto	Part 1: Cognitive Processes and Performance in High-Stress Environments: Speech Analysis -- Multimodal Recognition of the Stress when Performing Cognitive Tasks under Limited Time Conditions -- Evaluating Cause-Effect Relationships in Accident Investigation Using HFACS-DEMATEL -- Impact of Startle Reflex on Performance, Face Temperature and Brain Activity -- A Measurement Tool of Airline

Transport Pilot’s Psychological Competency and its Application -- A Method for Estimating Human Respiratory Rate and Heart Rate Using Sparse Spectrum Analysis -- Competency Evaluation of Chinese Pilots Based on Human Factors Analysis Model -- Diagnosing Cognitive Control with Eye-Tracking Metrics in a Multitasking Environment -- Pilots' Workload in the Cockpit with Onboard Tangible Information System -- Sleep Deprivation-Induced Alterations in Mood States Correlate with Changes in Spontaneous Brain Activity -- Effects of Individual Factors and Recall Direction on Working Memory Span -- The Experiment Study on EEG Characteristics of Different Personality Errors under Consequence Stress -- Part 2: Decision-Making Support and Automation: Neural Correspondence to Environmental Uncertainty in Multiple Probability Judgment Decision Support System -- Situational Awareness and Decision-Making in Maritime Operations: A Cognitive Perspective -- Report of the Working Group to Identify Future Challenges Faced by the Implementation of Resource Management in Remote and Distributed Teams -- Plan and Goal Recognition System for Adaptive Pilot Assistance in Tactical Helicopter Operations -- Study on Collision Risk Assessment of Free Flight Based on CNS Performances -- EBT Training Effectiveness and Evaluation -- Exploring Functionalities for an Intelligent Pilot Advisory System in Normal Operation -- Predicting Runway Configurations at Airports through Soft Voting Ensemble Learning- Single Pilot Operations - Who Should Do What? Allocating Aviation Tasks to the Performing Cooperators.

Sommario/riassunto

This two-volume set LNAI 14692–14693 constitutes the thoroughly refereed proceedings of the 21st International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2024, held as part of HCI International 2024,held in Washington, DC, USA, during June 29 - July 4, 2024. The total of 1271 papers and 309 posters included in the HCII 2024 proceedings was carefully reviewed and selected from 5108 submissions. The papers included in the HCII-EPCE two-volume set were organized in topical sections as follows: Part I: Cognitive Processes and Performance in High-Stress Environments; Decision-Making Support and Automation. Part II: Engineering Psychology and User Experience; Human Factors in Aviation. .