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Nota di contenuto	-- Cognition in Aviation. -- Effects of Flight Experience, Power Distance and the Role in The Cockpit on Pilots' Situation Awareness. -- Assessing Human Factors in the Transition to Liquid Hydrogen (LH2) as a Sustainable Aviation Fuel: A Systematic HFACS Analysis of Hydrogen Incidents Across Industries. -- Application of People Analytics for Reducing Human-Related Cyber Risk in the Context of Air Traffic Managers. -- Strategic Human Resource Management, Training and

Design for Future Flight Operations. -- Evaluation of Fixed-Wing Pilot Strategies in Startle and Surprise Events: A Survey Study. -- Correlation Analysis of Facial Expression, Physiological Features and Core Competency in Pilot Simulator Training. -- Design and Develop Human Factors-Driven Safe Altitude for eVTOLs Operation in Regional Air Mobility. -- Application of Generative AI for Aviation Safety Report Analysis from the Resilience Engineering Perspective. -- Gaps and Challenges in Automation Assessment to Support Human-Centric Aviation Certification. -- Bias Influence on AI Accuracy: The Case of Air Traffic Controllers' Experience. -- A Comparison of Underload and Overload upon Situation Awareness in Commercial Aviation: Combining Subjective, Objective, and Physiological Measurements. -- Construction of Behavioral Patterns Based on the System Monitoring Task in the Pilot Competency Testing Platform. -- A Design Evaluation of Text and Graphical Explanations from a Conceptual Intelligent Assistant in Urban Air Traffic Management. -- The Application of Eye Movement Analysis in the Study of Remote Tower Controller Workload. -- Towards Task-Aware Intervention when Supervising Unmanned Aerial Vehicles: System Requirements Analysis for Human Multitasking-Adaptive Assistance. -- User Centered Interface Design for Human Autonomy Teaming in Air Traffic Control: A Case Study . -- Flight Scheduling for Hub Airports Under Different Runway Configurations Based on the Imperial Competition Algorithm. -- Human–AI Teaming in the Urban Air Mobility Coordinator Work Position: A Proof-of-Concept Design. -- The Impact of Event Preview on Pilot Attention Allocation During a Multitasking Test. -- Analysis of Human Factors Risk Based on Data of Unsafe Events in Flight. -- A Rule-Based Simulation Platform for Pilot Operation Decision Making. -- Research on the Detection and Recognition of Aircraft Targets in Airport Flight Area under Various Complex Weather Conditions. -- Cognition in Space. -- Effects of Task Complexity and Time Pressure on Teleoperation of a Space Manipulator. -- The Impact of Simulated Lunar Dynamic Lighting Conditions on Object Information Recognition and Visual Perception. -- The Cognitive Performance of Chinese Characters Complexity and Layout Elements with Dark Patterns on Spacecraft Interfaces. -- Simulating the Effect of MR Interface Background Color on Task Performance and Mood under Extremely Dark Light Conditions on a Space Station. -- Effects of Virtual Healing Space on Restoration in a Space Station Environment.

Sommario/riassunto

This two-volume set constitutes the thoroughly refereed proceedings of the 22nd International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2025, held as part of HCI International 2025, held in Gothenburg, Sweden, during June 22–27, 2025. Two volumes of the HCII 2025 proceedings are dedicated to this year's edition of the EPCE conference. The first volume centers around a diverse array of interconnected themes related to human performance, workload and situational awareness in the use of complex interactive applications and environments, as well as the role of cognitive psychology on designing and evaluating interactive systems and investigating computer-supported as in collaboration and teaming. The second volume focuses on issues related to Cognitive Psychology in the demanding contexts of aviation and space.
