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Collana	Lecture Notes in Artificial Intelligence ; ; 10906
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Soggetti	User interfaces (Computer systems) Computer organization Artificial intelligence Computer security User Interfaces and Human Computer Interaction Computer Systems Organization and Communication Networks Artificial Intelligence Systems and Data Security
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Mental Workload and Human Error -- Design and Evaluation of a Workload-adaptive Associate System for Cockpit Crews -- The Influence of Culture on Vigilance Performance and Subjective Experience -- The Impact of Metacognitive Monitoring Feedback on Mental Workload and Situational Awareness -- A Heterarchical Urgency-Based Design Pattern for Human Automation Interaction -- A Multidimensional Workload Assessment Method for Power Grid Dispatcher -- Task-load Evaluation Method for Maintenance Personnel Based on the JACK Simulation -- The Identification of Human Errors in the Power Dispatching based on the TRACER Method -- Ergonomic Evaluation Study of Occupant Function Allocation for Riot Vehicle Based on Task Load -- Effect of Fatigue and Nervousness of Tower Controller on the Control Efficiency -- Situation awareness, training and team

working -- Dynamic Prediction Model of Situation Awareness in Flight Simulation -- The Effect of Thirty-Six Hour Total Sleep Deprivation on Spatial Cognition and Alertness. -Human-Centered Design of Flight Mode Annunciation for Instantaneous Mode Awareness -- Inter-sector Backup Behaviors in Parallel Approach ATC: the Effect of Job Satisfaction -- Quantitative study of Alertness During Continuous Wakefulness under the Effect of Nervous Activity -- Tracking Provenance in Decision Making Between the Human and Autonomy -- Cyber Officer Profiles and Performance Factors -- Displaced Interactions in Human-Automation Relationships: Transparency over Time -- Using Perceptual and Cognitive Explanations for Enhanced Human-Agent Team Performance -- Crew Resource Management for Automated Teammates (CRM-A) -- An Integrated After Action Review (IAAR) Approach: Conducting AARs for Scenario-Based Training Across Multiple and Distinct Skill Areas -- How Shared Screen Affected Team Collaboration Task, A Case Study of Ergonomics Experiment on Team Situation Awareness -- Effect of Different Information Push Mechanism on Driver's Situation Awareness -- Psychophysiological measures and assessment -- Mental Workload Estimation from EEG Signals using Machine Learning Algorithms -- Psycho-Physiological Evaluation of the Pilot: a Study Conducted with Pilots of the French Air Force -- Variation in Pupil Diameter by Day and Time of Day -- Computer-Based Neuropsychological Assessment: a Validation of Structured Examination of Executive Functions and Emotion -- The Mapping between Hand Motion States Induced by Arm Operation and Surface Electromyography -- Short Paper: Damage Mechanism and Risk Control on Kid's Sunglasses -- Affective Recognition Using EEG Signal in Human-robot Interaction -- Research on test of Anti-G suits airbag pressure -- Interaction, Cognition and Emotion -- The Effects of Risk and Role on Users' Anticipated Emotions in Safety-Critical Systems -- Comparison of Intellectus Statistics and Statistical Package for the Social Sciences - Differences in User Performance based on Presentation of Statistical Data -- Comparative Study of Laptops and Touch-Screen PCs for Searching on the Web -- A pilot Study on Gaze-based Control of a Virtual Camera using 360°-Video Data -- Efficiency and User Experience of Gaze Interaction in an Automotive Environment -- Investigation of Factors Affecting the Usability Evaluation of an Adaptive Cruise Control System -- Accent and Gender Bias in Perceptions of Interactive Voice Systems -- Tangible User Interface -- Populations Stereotypes for Color Associations -- Presentation of Personal Health Information for Consumers: An Experimental Comparison of Four Visualization Formats -- Micro and Macro predictions: Using SGOMS to predict phone app game playing and Emergency Operations Centre responses -- Natural Interaction in Video Image Investigation and its Evaluation -- An Experiment Study on the Cognitive Schema of Trajectory in Dynamic Visualization -- Cognition in Aviation and Space -- Playbook for UAS: UX of Goal-Oriented Planning & Execution -- Augmented Reality in a Remote Tower Environment based on VS/IR Fusion and Optical Tracking -- Network Re-Analysis of Boeing 737 Accident at Kegworth Using Different Potential Crewing Configurations for a Single Pilot Commercial Aircraft -- Human Performance Assessment of Multiple Remote Tower Operations Simultaneous Take-off and Landing at Two Airports -- CONTACT: a Human Centered Approach of Multimodal Flight Deck Design and Evaluation -- A System for Evaluating Pilot Performance based on Flight Data -- Pilot Performance Assessment in Simulators: Exploring Alternative Assessment Methods -- Now you see it, now you don't: A Change Blindness Assessment of Flight Display Complexity

and Pilot Performance -- Experimental Evaluation of a Scalable Mixed-Initiative Planning Associate for Future Military Helicopter Missions -- Flight Safety: ESL flight Crew Member Use of Crew Alerting and Information Systems -- The Preliminary Application of Observer XT (12.0) in a Pilot-Behavior Study -- Tablet-based Information System for Commercial Aircraft: Onboard Context-Sensitive Information System (OCSIS) -- Modeling and Simulating Astronaut's Performance in a Three-level Architecture -- Risk Cognition Variables and Flight Exceedance Behaviors of Airline Transport Pilots.

Sommario/riassunto

This book constitutes the proceedings of the 14th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2018, held as part of the 20th International Conference, HCI International 2018, which took place in Las Vegas, Nevada, in July 2018. The total of 1171 papers and 160 posters included in the 30 HCII 2018 proceedings volumes was carefully reviewed and selected from 4346 submissions. EPCE 2018 includes a total of 57 papers; they were organized in topical sections named: mental workload and human error; situation awareness, training and team working; psychophysiological measures and assessment; interaction, cognition and emotion; and cognition in aviation and space.
