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Nota di contenuto	Table of Contents – Part I.-Driving and Aviation Safety -- Human Centered Design of a Pre-collision System -- Causal Attribution and Control: Between Consciousness and Psychological Half-Shadow Application to Flight Operations -- Attentional Biases during Steering Behavior -- A Validation Approach for Complex NextGen Air Traffic Control Human Performance Models -- Personality and Attitudes as Predictors of Risky Driving Behavior: Evidence from Beijing Drivers -- Effects of Sleep Deprivation on Pilot's Cognitive Behavior in Flight Simulation -- Towards Early Status Warning for Driver's Fatigue Based on Cognitive Behavior Models -- Simulating the Impact of Mental Models on Human

Automation Interaction in Aviation.-Ergonomics Study of Direct and Indirect Visibility Evaluation at Uncontrolled Intersections Based on Three-Dimensional Computer Simulation -- Prediction of Drowsy Driving Using Behavioral Measures of Drivers – Change of Neck Bending Angle and Sitting Pressure Distribution -- Effectiveness of Automotive Warning System Presented with Multiple Sensory Modalities -- Proposal of Automotive 8-directional Warning System That Makes Use. of Tactile Apparent Movement -- Evaluation of Drivers Interaction with Assistant Systems Using Criticality Driven Guided Simulation -- Effects of Spaceflight Operation Complexity and Training on Operation Error -- Predicating the Safety of Airport Approaches Using a Cognitive Pilot Model -- Human Factors and Digital Human Modeling in Healthcare -- Supporting Conversation for People with Dementia by Introducing a Computer-Based Third Element to the Interaction -- “Using Digital Interactive Television to Promote Healthcare and Wellness Inclusive Services” -- Homecare Risk Management: Nursing Issues Related to Technology -- Facilitators’ Intervention Variance and Outcome Influence When Using Video Games with Fibromyalgia Patients -- The Causal Analysis of Requested Alterations for Pressure Garments -- Towards Enhancing the Acoustic Models for Dysarthric Speech -- Supporting a Participant-Centric Management of Obesity via a Self-improving Health Game -- Feedback-Based Self-training System of Patient Transfer -- A Comparative Analysis of the Educational Effectiveness of Leaflet and Website for Low-Literate Patients – A Case Study of Immigrant Mothers in Taipei -- Effect Evaluation of Recreational Coloring Carried Out at Pay Nursing Home -- A Study for Conducting Waves by Using the Multi-channel Surface EMG -- Implementing Scenarios as an Evaluation Method of the Patient-Physician Interaction in Decision Aids -- Plantar Pressure Gradient Angles to Evaluate Risk of Diabetic Foot Ulcer -- Explicit Tracking in the Diagnostic Process for Hand Dermatological Practices -- Ideal Mode Selection of a Cardiac Pacing System -- Development of a Measurement and Evaluation System for Bed-Making Activity for Self-training -- Usability Problems in Patient- and Clinician-Oriented Health Information Systems: What Are They and How Do They Differ? -- Safety of the Human Environment -- Aml-Technology at Work – A Sociological Perspective Covering Aspects of Occupational Safety and Health (OSH) -- Bayesian Affordance-Based Agent Model for Wayfinding Behaviors in Evacuation Problems -- A Sustainable Human Centered Design Framework Based on Human Factors -- Putting in Perspective Human-Machine System Theory and Modeling: From Theoretical Biology to Artifacts Integrative Design and Organization -- Friction Measurements in a Hand Tool Factory -- Development of Human Balance Assessment System with Continuous Center of Gravity Tracking -- Constructing Ergonomic Safety Modelling for Evaluating New Designs of Child Car Seats -- How Could This Have Happened? Unintentional Injuries of Young Children at Home -- Usability of Portable Fire Extinguisher: Perspectives of Ergonomics and Intuitive Use -- Adaptive User-Centered Design for Safety and Comfort of Physical Human Nursing – Care Robot Interaction -- Investigation of an Agent-Based Modeling on Crowd Evacuation and Its Application to Real Buildings.

Sommario/riassunto

This two volume set (LNCS 8025-8026) constitutes the refereed proceedings of the Fourth International Conference on Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management, formerly International Conference on Digital Human Modeling, DHM 2013, held as part of the 15th International Conference on Human-Computer Interaction, HCII 2013, held in Las Vegas, USA in July 2013, jointly with 12 other thematically similar conferences. The

total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This two-volume set contains 91 papers. The papers in this volume focus on the following topics: digital human modeling and ergonomics in working environments; ergonomics of work with computers; anthropometry, posture and motion modeling.
