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Titolo	Advances in Human Factors and Ergonomics in Healthcare and Medical Devices : Proceedings of the AHFE 2017 International Conferences on Human Factors and Ergonomics in Healthcare and Medical Devices, July 17–21, 2017, The Westin Bonaventure Hotel, Los Angeles, California, USA / / edited by Vincent Duffy, Nancy Lightner
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Descrizione fisica	1 online resource (XV, 633 p. 208 illus.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 590
Disciplina	006.3
Soggetti	Computational intelligence Occupational health services User interfaces (Computer systems) Human-computer interaction Medical informatics Computational Intelligence Occupational Health User Interfaces and Human Computer Interaction Health Informatics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Increasing patient safety through resilient design: Using human factors engineering and environmental support mechanisms to reduce potentials of hospital acquired infection -- An ergonomic evaluation of preoperative and postoperative workspaces in ambulatory surgery centers -- An ergonomic evaluation of preoperative and postoperative workspaces in ambulatory surgery centers -- Evidence of a symptom cluster: The impact of mindfulness meditation on self-reported stress, fatigue, pain, and sleep among U.S. military service members and veterans -- Evaluation of effect on cognition response to time pressure by using EEG -- A pilot study evaluating the utility, acceptability, and

feasibility of an abbreviated mindfulness meditation program before and during army warfighting training -- Learning effects of perturbation to postural control in diabetics with neuropathy -- Considering ergonomics in the accident and emergency department: Possible or not -- Superficial electromyography, motion analysis and triggered-stereo cameras technologies applied to ultrasound system user interface evaluation -- Case study of integrated ergonomic assessment of a cart-based high-end ultrasound system -- A RGB-D sensor based tool for assessment and rating of movement disorders -- A comprehensive approach for physical rehabilitation assessment in multiple sclerosis patients based on gait analysis -- Investigation of human factors engineering methods used in medical device procurement process -- Usefulness of skin punch tools for corneal biopsy.

Sommario/riassunto

This book discusses the latest advances in human factors and ergonomics, focusing on methods for improving quality, safety, efficiency, and effectiveness in patient care. By emphasizing the physical, cognitive, and organizational aspects of human factors and ergonomics applications, it presents various perspectives, including those of clinicians, patients, health organizations, and insurance providers. The book describes cutting-edge applications, highlighting best practices for staff interactions with patients, as well as interactions with computers and medical devices. It also presents new findings related to improved organizational outcomes in healthcare settings, and approaches to modeling and analysis specifically targeting those work aspects unique to healthcare. Based on the AHFE 2017 International Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, held on July 17–21, 2017, in Los Angeles, California, USA, the book is intended as a timely reference guide for both researchers involved in the design of healthcare systems and devices and for healthcare professionals working to deliver safe and effective health service. Moreover, by providing a useful survey of cutting-edge methods for improving organizational outcomes in healthcare settings, the book also represents a source of inspiration for healthcare counselors and international health organizations.