

1. Record Nr.	UNINA9910411936903321
Titolo	Advances in Physical, Social & Occupational Ergonomics : Proceedings of the AHFE 2020 Virtual Conferences on Physical Ergonomics and Human Factors, Social & Occupational Ergonomics and Cross-Cultural Decision Making, July 16–20, 2020, USA // edited by Waldemar Karwowski, Ravindra S. Goonetilleke, Shuping Xiong, Richard H. M. Goossens, Atsuo Murata
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-51549-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVIII, 578 p. 199 illus., 132 illus. in color.)
Collana	Advances in Intelligent Systems and Computing, , 2194-5365 ; ; 1215
Disciplina	620.82
Soggetti	Industrial Management Personnel management Ethnology Culture Human Resource Management Regional Cultural Studies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Comparison of joint angle measurements from three types of motion capture systems for ergonomic postural assessment -- Quantitative assessment of trunk flexion in nurses using wearable inertial sensor: A pilot study -- Comparing the ergonomics of gestural interfaces while running on a treadmill -- 'On the analysis of the relationship between alkaline water usage and muscle fatigue recovery -- Posture assessment and subjective scale agreement in picking tasks with low masses -- Evolution of a work-related musculoskeletal disorder risk assessment tool. The case of CERA -- Physical load and preventive measures in metal manufacturing industry -- Causes of work related musculoskeletal disorders in the textile industry.
Sommario/riassunto	This book reports on cutting-edge findings and developments in physical, social and occupational ergonomics. It covers a broad

spectrum of studies and evaluation procedures concerning physical and mental workload, work posture and ergonomic risk. Further, it reports on significant advances in the design of services and systems, including those addressing special populations, for purposes such as health, safety and education, and discusses solutions for a better and safer integration of humans, automated systems and digital technologies. The book also analyzes the impact of culture on people's cognition and behavior, providing readers with timely insights into theories on cross-cultural decision-making, and their diverse applications for a number of purposes in businesses and societies. Based on three AHFE 2020 conferences (the AHFE 2020 Virtual Conference on Physical Ergonomics and Human Factors, the AHFE 2020 Virtual Conference on Social & Occupational Ergonomics, and the AHFE 2020 Virtual Conference on Cross-Cultural Decision Making), it provides readers with a comprehensive overview of the current challenges in physical, social and occupational ergonomics, including those imposed by technological developments, highlights key connections between them, and puts forward optimization strategies for sociotechnical systems, including their organizational structures, policies and processes. .
