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# Rula Rapid Upper Limb Assessment

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Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)

Convergence of Ergonomics and Design

Physical Ergonomics and Human Factors

A Robotic Hand that Utilizes Ergonomic Evaluation as Feedback to Improve Human Robot Collaboration in Soldering Applications

An Evaluation of the Rapid Upper Limb Assessment (RULA) Method for Use by Non-ergonomists in Supervisory Positions in Industry

Productivity with Health, Safety, and Environment

Working Postures and Movements

Research and Innovation Forum 2022

Occupational Safety and Hygiene II

Technology Enabled Ergonomic Design

Occupational Safety and Hygiene III

Advances in Physical, Social & Occupational Ergonomics

Safety and Reliability - Safe Societies in a Changing World

Advances in Human Factors and Ergonomics in Healthcare and Medical Devices

Contemporary Ergonomics

Integrating Ergonomic Analysis Functionality with an Immersive Environment

Worker and Public Health and Safety

An Ergonomic Assessment of Employees Operating Multiple Computers at Their Workstation at Company XYZ

Occupational Ergonomics

Physical and Biological Hazards of the Workplace

Examining the Relationship Between Rapid Upper Limb Assessment's (RULA) Postural Scoring System and Selected Physiological and Psychophysiological Measures

The Occupational Ergonomics Handbook

Visual Posture Observation Error and Training

Proceedings of Mechanical Engineering Research Day 2018

An Ergonomic and Human Factors Comparison Between Manual and Telerobotic Simulated Endoscopic Surgery

Proceedings of the 7th International Conference on Kansei Engineering and Emotion Research 2018

Ergonomics Of Working Postures

Musculoskeletal Disorders in Electronic Frame Manufacturing

Advances in Human Aspects of Transportation

Handbook of Human Factors and Ergonomics Methods

A Study of the Reliability of R.U.L.A. (Rapid Upper Limb Assessment) and Its Application in the Food Processing and Packaging Industry

Work-Related Musculoskeletal Disorders Wmsds

Analysis and Assessment of an Ergonomic Computer Chair

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An Evaluation of the Rapid Upper Limb Assessment Method (RULA) for Use by Non-ergonomists

Work Study and Ergonomics

Advanced Research in Technologies, Information, Innovation and Sustainability

Contemporary Ergonomics 1984-2008

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## **SIMPSON KEIRA**

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*Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)* Springer Nature

The objective of this study was to perform an ergonomic and human factors comparison between manual and telerobotic simulated endoscopic surgery. Methods: To evaluate and compare the ergonomics of endoscopic surgery using manual and telerobotic techniques, 13 participants without experience as primary surgeons in endoscopic surgery were selected to perform a set of simulated tasks at random. The tasks consisted of passing a pompom through rings, suturing, running a 32-in ribbon, and cannulation. The Job Strain Index (JSI) and Rapid Upper Limb Assessment (RULA) were used for ergonomic evaluation. Participants completed a questionnaire comparing intuitiveness and mental stress. Results: JSI and RULA scores for all four tasks demonstrated that the telerobotic technique is ergonomically more favorable than the manual technique. The telerobotic technique is as intuitive and no more stressful than the manual technique. Conclusions: Telerobotic endoscopic surgery is ergonomically more favorable, equally intuitive, and no more mentally stressful than manual endoscopic surgery.

*Convergence of Ergonomics and Design* Springer Nature

The aim of this study was to assess and evaluate an ergonomic chair and also determine if the protocol used for this study should be recommended for evaluation of such chairs. Subjects (n = 30) were evaluated while carrying out 3 different computer related tasks to simulate routine activities the chair will be subjected to. A body discomfort survey and questionnaire were used to obtain subjective data from test subjects. Participants were asked to rate their general discomfort and discomfort at various anatomical locations on a scale of 0-10, indicating no discomfort and extreme discomfort respectively. An electromyograph (EMG) was used to measure and record muscle activity; Root Mean Square (RMS) values generated were used as objective data and analyzed accordingly. The Rapid Upper Limb Assessment (RULA) was used to evaluate the most dominant working postures to determine if the chair being assessed provided the appropriate support required to correct or prevent poor posture while carrying out computer related tasks. Using data collected, the 400-D hydraulic chair (Chair A) was compared to another randomly selected ergonomic chair (Chair B). A Comparison of chair A to chair B served as one of the methods used in analyzing the ergonomic chair. Differences in means and variances were noted in this study. No significant correlation could be established between population demographics, RMS values, and RULA scores (-0.6 > r

*Physical Ergonomics and Human Factors* CRC Press

The papers published in Occupational Safety and Hygiene III cover the following topics:- Occupational safety- Risk assessment- Safety management- Ergonomics- Management systems- Environmental ergonomics- Physical environments- Construction safety, and- Human factors. The contributions are based on research carried out at universities and other resea

*A Robotic Hand that Utilizes Ergonomic Evaluation as Feedback to Improve Human Robot Collaboration in Soldering Applications* CRC Press

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.

*An Evaluation of the Rapid Upper Limb Assessment (RULA) Method for Use by Non-ergonomists in Supervisory Positions in Industry* Springer

This book features research presented and discussed during the Research & Innovation Forum (Rii Forum) 2022. As such, this book offers a unique insight into emerging topics, issues and developments pertinent to the fields of technology, innovation and education and their social impact. Papers included in this book apply inter- and multi-disciplinary approaches to query such issues as technology-enhanced teaching and learning, smart cities, information systems, cognitive computing and social networking. What brings these threads of the discussion together is the question of how advances in computer science - which are otherwise largely incomprehensible to researchers from other fields - can be effectively translated and capitalized on so as to make them beneficial for society as a whole. In this context, Rii Forum and Rii Forum proceedings offer an essential venue where diverse stakeholders, including academics, the think tank sector and decision-makers, can engage in a meaningful dialogue with a view to improving the applicability of advances in computer science.

*Productivity with Health, Safety, and Environment* Springer Nature

Completely revised and updated, Evaluation of Human Work is a compendium of ergonomics methods and techniques that is both broad and deep. The editors have once again brought together a team of world-renowned experts and created a forum for them to introduce their most valued techniques and methods. Almost every chapter has been revised and several new chapters have been added. See what's new in the Third Edition: Sociotechnical design of work systems Team design and evaluation Learning from failures through a joint cognitive systems perspective The Analysis of organizational processes Techniques in user-centered design Increased understanding of

the nature of knowledge and knowledge management in contemporary systems Environment surveys Systems for near miss reporting and analysis The one thing that has remained unchanged from the first and second editions is that this text is produced NOT as a cookbook of ergonomics methods. The editor places ergonomics methodology in context, and each chapter carefully describes the background to method development in that area and the application of methods and tools. Exploring the topic of ergonomics/human factors from a 'doing it' perspective, the book serves as a guide to what ergonomics can offer industry, business, or human service professionals and a reference for practicing ergonomists.

**Working Postures and Movements** CRC Press

This book discusses the latest advances in the research and development, design, operation, and analysis of transportation systems and their corresponding infrastructures. It presents both theories and case studies on road and rail, aviation, and maritime transportation. Further, it covers a wealth of topics, from accident analysis, intelligent vehicle control, and human-error and safety issues to next-generation transportation systems, model-based design methods, simulation and training techniques, and many more. Special emphasis is placed on smart technologies and automation in transport, as well as the user-centered, ergonomic, and sustainable design of transportation systems. The book, which is based on the AHFE 2020 Virtual Conference on Human Aspects of Transportation, held on July 16–20, 2020, mainly addresses the needs of transportation system designers, industrial designers, human-computer interaction researchers, civil and control engineers, as well as vehicle system engineers. Moreover, it represents a timely source of information for transportation policy-makers and social scientists whose work involves traffic safety, management, and sustainability issues in transport.

**Research and Innovation Forum 2022** Springer Nature

This volume comprises select proceedings of the International Conference on Humanizing Work and Work Environment organized by the Indian Society of Ergonomics (HWWWE2019). The book presents research findings on different areas of ergonomics for developing appropriate tools and work environment considering capabilities and limitations of working people for maximum effectiveness on their performance. This volume will be of interest to academics, professionals and practitioners in the field of ergonomics.

**Occupational Safety and Hygiene II** CRC Press

Completely updated version this classic reference covers both physical hazards and biological agents Provides updated information on protecting workers from proven and possible health risks from manual material handling, extremes of temperature and pressure, ionizing and non-ionizing (magnetic fields) radiation, shiftwork, and more Details major changes in our understanding of biological hazards including Ebola, Chikungunya, Zika, HIV, Hepatitis C, Lyme disease, MERS-CoV, TB, and much more All infectious diseases have been updated from an occupational health perspective Includes practical guidance on to how to set up medical surveillance for hazards and suggests preventive measures that can be used to reduce occupational diseases

**Technology Enabled Ergonomic Design** CRC Press

Safety and Reliability – Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference, ESREL 2018 in Trondheim, Norway, June 17-21, 2018.

The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include: - foundations of risk and reliability assessment and management - mathematical methods in reliability and safety - risk assessment - risk management - system reliability - uncertainty analysis - digitalization and big data - prognostics and system health management - occupational safety - accident and incident modeling - maintenance modeling and applications - simulation for safety and reliability analysis - dynamic risk and barrier management - organizational factors and safety culture - human factors and human reliability - resilience engineering - structural reliability - natural hazards - security - economic analysis in risk management Safety and Reliability – Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making.

**Occupational Safety and Hygiene III** CRC Press

Occupational Safety and Hygiene II contains selected papers from the International Symposium on Occupational Safety and Hygiene (SHO2014, Guimarães, Portugal, 13-14 February 2014), which was organized by the Portuguese Society for Occupational Safety and Hygiene (SPOSHO). The contributions focus on selected topics, which include (but is not limited to): Occupational safety Risk assessment Safety management Ergonomics Management systems Environmental ergonomics Physical environments Construction safety, and Human factors The contributions in Occupational Safety and Hygiene II are mainly based on research carried out at universities and other research institutions, but also on practical studies developed by Occupational Health & Safety (OHS) Practitioners within their companies. Accordingly, this book will be a helpful text to get acquainted with the state-of-the-art of the research within the mentioned domains, as well as with some practical tools and approaches that are currently used by OHS professionals in a global context.

**Advances in Physical, Social & Occupational Ergonomics** John Wiley & Sons

An Evaluation of the Rapid Upper Limb Assessment (RULA) Method for Use by Non-ergonomists in Supervisory Positions in Industry An Evaluation of the Rapid Upper Limb Assessment Method (RULA) for Use by Non-ergonomists A Study of the Reliability of R.U.L.A. (Rapid Upper Limb Assessment) and Its Application in the Food Processing and Packaging Industry Examining the Relationship Between Rapid Upper Limb Assessment's (RULA) Postural Scoring System and Selected Physiological and Psychophysiological Measures Handbook of Human Factors and Ergonomics Methods CRC Press **Safety and Reliability – Safe Societies in a Changing World** CRC Press

Physical Ergonomics and Human Factors Proceedings of the 13th International Conference on Applied Human Factors and Ergonomics (AHFE 2022), July 24–28, 2022, New York, USA

**Advances in Human Factors and Ergonomics in Healthcare and Medical Devices** Springer Nature

This volume presents selected papers presented during the 18th International Conference on

Humanizing Work and Work Environment (HWWE 2020). The book presents research findings on different areas of ergonomics for developing appropriate tools and work environment considering capabilities and limitations of working people for maximum effectiveness on their performance. The book is divided into several sections focusing on different ergonomic research activities currently being undertaken at both national and international levels. The volume will be of use to researchers, practitioners and students working in different fields of ergonomics.

Cambridge University Press

This book covers the fundamental concepts of work study and ergonomics in a single volume. It discusses the theories of human physiology and cognitive sciences, and evaluates the application of these theories to design a work environment that optimizes work potential and reduces threats of work-related disorders. It provides strategies to design effective work processes and a congenial work environment in order to enhance human well-being and efficiency. The book also explains the ergonomic tools and techniques including biomechanics, work posture assessment tools, anthropometry and work physiology. Using live examples from the industry, the author discusses the principles of work study including string diagram, method study, work sampling and man-machine system. The book demonstrates why it is important to 'fit the job to the man' rather than continuing with conventional practices that 'fit the man to the job'.

*Contemporary Ergonomics* Springer Nature

The two-volume Proceedings set CCIS 1675 and 1676 constitutes the refereed proceedings of the Second International Conference, ARTIIS 2022, held in Santiago de Compostela, Spain, during September 12-15, 2022. The 72 papers included in these proceedings were carefully reviewed and selected from 191 submissions. These papers were categorized into 2 technical tracks, i.e., Sustainability and Ethics, Security, and Privacy.

**Integrating Ergonomic Analysis Functionality with an Immersive Environment** Springer

This book on "Worker and Public Health and Safety: Current Views" brings together current scholarly work and opinions in the form of original papers and reviews related to this field of study. It provides important and recent scientific reading as well as topical medical and occupational information and research in areas of immediate relevance, such as chronic and occupational diseases, worker safety and performance, job strain, workload, injuries, accident and errors, risks and management, fitness, burnout, psychological and mental disorders including stress, therapy, job satisfaction,

musculoskeletal symptoms and pain, socio-economic factors, dust pollution, pesticides, noise, pathogens, and related areas.

**Worker and Public Health and Safety** MDPI

Work related musculoskeletal disorders, or WMSDs, have become a major problem in many industrialised countries. It was previously thought that the number of repetitive jobs would decline in the future, leading to a decline in the number of WMSDs: however, this has not been the case. Some government agencies expect WMSDs to be one of the major work-related disorders into the new Millennium. This book contains evaluated scientific information that will help prevent WMSDs, derived from original research and field experience via a Canadian Government sponsored project on work related musculoskeletal disorders. The expert group's goal was twofold: the first objective was to examine the work relatedness of WMSDs in the light of existing literature, and the second was to explore and synthesize information, avenues and approaches that could help in the prevention of WMSDs.

*An Ergonomic Assessment of Employees Operating Multiple Computers at Their Workstation at Company XYZ* AHFE International

This book is based on an international symposium on the Ergonomics of Working Postures, at Zadar. It explores fairly specific areas of occupational ergonomics with the purpose of drawing together major current trends.

**Occupational Ergonomics** Centre for Advanced Research on Energy

This book presents the proceedings of the Joint Conference of the Asian Council on Ergonomics and Design and Southeast Asian Network of Ergonomics Societies (ACED SEANES), held on December 2-4, 2020. By highlighting the latest theories and models, as well as cutting-edge technologies and applications, and by combining findings from a range of disciplines including engineering, design, robotics, healthcare, management, computer science, human biology and behavioral science, it provides researchers and practitioners alike with a comprehensive, timely guide on human factors and ergonomics. It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance, while at the same time promoting the health, safety and wellbeing of individuals. The proceedings include papers from researchers and practitioners, scientists and physicians, institutional leaders, managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies, domains and productive sectors.

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