

Table of Contents

Part I: Quality of Working Life

New Ways of Working: A Proposed Framework and Literature Review	3
<i>Merle Blok, Liesbeth Groenesteijn, Christiaan van den Berg, and Peter Vink</i>	
Beyond the Technology Acceptance Model: Elements to Validate the Human-Technology Symbiosis Model	13
<i>Éric Brangier and Sonia Hammes-Adelé</i>	
The Interaction Effect of Posture and Psychological Stress on Neck-Shoulder Muscle Activity in Typing: A Pilot Study	22
<i>Wei-Ying Chou, Bi-Hui Chen, and Wen-Ko Chiou</i>	
Management Standardization versus Quality of Working Life	30
<i>Przemysław Drożyner, Paweł Mikołajczak, Jarosław Szuszkiewicz, and Małgorzata Jasiulewicz-Kaczmarek</i>	
Human-Computer Interaction in Office Work: Evaluation of Interaction Patterns Using Office Equipment and Software during Data Entry and Navigation	40
<i>Ernesto Filgueiras, Francisco Rebelo, and Fernando Moreira da Silva</i>	
Preventive and Pro-active Ergonomics Influence on Maintenance Excellence Level	49
<i>Małgorzata Jasiulewicz-Kaczmarek and Przemysław Drożyner</i>	
Effects of Meeting Room Interior Design on Team Performance in a Creativity Task	59
<i>Elsbeth de Korte, Lottie Kuijt, and Rick van der Kleij</i>	
LED Office Lighting to Promote Performance and Well-Being	68
<i>Katrin Moeller, Vincent Grote, Katharina Keller, Dieter Lorenz, Maximilian Moser, and Tran Quoc Khanh</i>	
Is the Presence of a Companion Animal Dog Beneficial for Computer Operators?	78
<i>Rie Takeshima and Iiji Ogawa</i>	
Analysis on Flight Fatigue Risk and the Systematic Solution	88
<i>Wang Lei and Sun Ruishan</i>	

Part II: Health and Well-Being

Healthcare and Security: Understanding and Evaluating the Risks	99
<i>Aubrey Baker, Laurian Vega, Tom DeHart, and Steve Harrison</i>	
The Disability-Simulator: Simulating the Influences of Disabilities on the Usability of Graphical User Interfaces	109
<i>Kai Breiner, Tobias Wüchner, and Malte Brunnlieb</i>	
Advancing Critical Care in the ICU: A Human-Centered Biomedical Data Visualization Systems	119
<i>Anthony Faiola and Chris Newlon</i>	
A Comparative Study of Children's eHealth Design between East and West: A Case Study of Children's Health Websites in China, Taiwan, the UK, and the US	129
<i>Yah-Ling Hung and Catherine Stones</i>	
Visually Exploring Multivariate Trends in Patient Cohorts Using Animated Scatter Plots	139
<i>Alexander Rind, Wolfgang Aigner, Silvia Miksch, Sylvia Wiltner, Margit Pohl, Felix Drexler, Barbara Neubauer, and Nikolaus Suchy</i>	
Emerging Triage Support Environment for Dementia Care with Camera System	149
<i>Taro Sugihara and Tsutomu Fujinami</i>	
Nonvisual Effects of Led Coloured Ambient Lighting on Well-Being and Cardiac Reactivity: Preliminary Findings	159
<i>Michel Varkevisser, Roy J.E.M. Raymann, and David V. Keyson</i>	

Part III: Interactive Devices and Interfaces

The Effect of Vibrotactile Feedback on Novice Older Adults in Target Selection Tasks	171
<i>Bora Üzümler and Mehmet Göktürk</i>	
Multi-Resolution-Display System for Virtual Reality Setups	180
<i>Jürgen Grüninger, Hilko Hoffmann, Uwe Kloos, and Jens Krüger</i>	
Alternative Workstations May Be New But Are They Better?	190
<i>Alan Hedge</i>	
Improving the Online Video Chat Experience	199
<i>Asim Kadav, Chelsea Wanta, Nai-Wen Claire Yu, Kyung Lee, and Enid Montague</i>	

DeskTop: A Design Guideline to Creating a Multi-touch Desk Prototype	209
<i>Jerome McClendon, Joshua Ekandem, Austen Hayes, Amy Ulinski, and Larry F. Hodges</i>	
Changing Color over Time	218
<i>Dragan Sekulovski, Ingrid Vogels, Ramon Clout, and Malgorzata Perz</i>	
<i>SmartHeliosity: Emotional Ergonomics through Coloured Light</i>	226
<i>Oliver Stefani, Milind Mahale, Achim Pross, and Matthias Bues</i>	
All in Hand Keyboard Designing and Researching Based on Ergonomics	236
<i>Zhenya Wang, Heshan Liu, Song Hao, and Yandong Wang</i>	
Author Index	245