Communication, Technology and Aging

Opportunities and Challenges for the Future

Neil Charness
Denise C. Parks
Bernhard A. Sabel
Editors

SPRINGER PUBLISHING COMPANY

Contents

Contributors *vii*

Preface *ix*

Part I Overview

1 **Aging and Communication: Human Factors Issues** 1
Neil Charness

2 Over-Accommodations and Under-Accommodations to Aging 30
Susan Kemper

3 Design Challenges Associated with Longevity: The View From Industry 47
Craig Spiezle and Gary Moulton

4 The Internet and Older Adults: Design Challenges and Opportunities 60
Sara J. Czaja and Chin Chin Lee

Part II Communication and Sociocultural Issues

5 Culture, Aging, and Cognitive Aspects of Communication 81
Trey Hedden and Denise C. Park

6 Aging, Sensory Loss, and Social Functioning 108
Hans-Werner Wahl and Clemens Tesch-Römer

7 The Impact of Internet Use Over Time on Older Adults: A Field Experiment 127
Karra L. Bikson and Tora K. Bikson

Part III Training and Compensation

8 Aging, Communication, and Interface Design 153
Lila F. Laux

9 Face Memory Skill Acquisition 169
Reinhold Kliegl, Doris Philipp, Matthias Luckner, and Ralf Th. Krampe

10 A Systems Approach for Training Older Adults to Use Technology 187
Wendy A. Rogers, Regan H. Campbell, and Richard Pak

11 Aging, Vision, and Brain Plasticity: Restoring Lost Visual Functions by Computer-Based Training 209
Dorothe A. Poggel, Tilman Schulte, Erich Kasten, and Bernhard A. Sabel

Index 227