Age-Differentiated Work Systems
Contents

Age-Differentiated Work Systems: Introduction and Overview
to a Six-Year Research Program in Germany ....................... 1
Christopher M. Schlick, Ekkehart Frielin and Jürgen Wegge

Age-Differentiated Work Systems Enhance Productivity
and Retention of Old Employees ....................................... 25
Thomas Zwick, Christian Göbel and Jan Fries

Development and Evaluation of Working-Time Models
for the Ageing Workforce: Lessons Learned from the KRONOS
Research Project .......................................................... 45
Peter Knauth, Dorothee Karl and Kathrin Gimpel

Effects of an Ageing Workforce on the Performance
of Assembly Systems ..................................................... 65
Gert Zülch, Martin Waldherr and Marcel Becker

Age Diversity and Team Effectiveness ............................... 89
Birgit Claudia Ries, Stefan Diestel, Meir Shemla,
Susanne Christina Liebermann, Franziska Jungmann,
Jürgen Wegge and Klaus-Helmut Schmidt

Age Differences in Motivation and Stress at Work ................ 119
Guido Hertel, Markus Thielgen, Cornelia Rauschenbach, Anna Grube,
Christian Stamov-Roßnagel and Stefan Krumm

Age-Related Differences in the Emotion Regulation
of Teachers in the Classroom .......................................... 149
Anja Philipp and Heinz Schüpbach
Successful Aging Strategies in Nursing: The Example of Selective Optimization with Compensation .......................... 175
Andreas Müller, Barbara Heiden, Matthias Weigl,
Jürgen Glaser and Peter Angerer

Assembly Tasks in the Automotive Industry: A Challenge for Older Employees .................................................. 201
Ekkehart Frieling, Daniel Kotzab, José Alonso Enríquez Díaz
and Alina Sytch

Capability Related Stress Analysis to Support Design of Work Systems ............................................................ 227
Holger Rademacher, Ralph Bruder, Max Bierwirth, Dorothee Müglich,
Andrea Sinn-Behrendt and Kurt Landau

Field Study of Age-Critical Assembly Processes in the Automotive Industry .................................................. 253
Kerstin Börner, Christian Scherf, Bianca Leitner-Mai
and Birgit Spanner-Ulmer

Age-Related Differences in Critical Driving Situations: The Influence of Dual-Task Situations, S-R Compatibility
and Driving Expertise .................................................. 279
Gisa Aschersleben, Katrin Arning and Jochen Müsseier

Age-Related Changes of Neural Control Processes and Their Significance for Driving Performance .................. 299
Melanie Hahn, Nele Wild-Wall and Michael Falkenstein

Integrating Training, Instruction and Design into Universal User Interfaces .................................................. 319
Michael Sengpiel, Malte Sönksen and Hartmut Wandke

Ergonomic Design of Human–Computer Interfaces for Aging Users .................................................. 347
Christopher M. Schlick, Sebastian Vetter, Jennifer Bützler,
Nicole Jochems and Susanne Mütze-Niewöhner

Age-Related Variations in the Control of Electronic Tools .................................................. 369
Herbert Heuer, Mathias Hegele and Miya Kato Rand