

## Contents

---

Preface.....	9
<i>Dick de Waard, Karel Brookhuis, René van Egmond, and Theo Boersema</i>	
<b>Safety &amp; Transport</b>	
A study of driver visual behaviour while talking with passengers, and on mobile phones.....	11
<i>Rachel. K. Smith, Toni Luke, Andrew M. Parkes, Peter C. Burns, &amp; Terry C. Lansdown</i>	
Visual distraction of paper map and electronic system based navigation.....	23
<i>Toni Luke &amp; Nick Reed</i>	
Interaction between car drivers: a diary study .....	35
<i>Maura Houtenbos, Marjan Hagenzieker, &amp; Andrew Hale</i>	
The number of participants required in occlusion studies of in-vehicle information systems (IVIS) .....	39
<i>Nick Reed, Nikki Brook-Carter, &amp; Simon Thompson</i>	
User friendly terminology for driver assistance systems .....	49
<i>Marion Wiethoff, Alan Stevens, &amp; Nikki Brook-Carter</i>	
Designing out terrorism: human factors issues in airport baggage inspection .....	63
<i>Alastair G. Gale, Kevin Purdy, &amp; David Wooding</i>	
Visual strain of the underground train driver.....	67
<i>Hilda Herman</i>	
HUMANIST: Networking in the European Union for a human-centred design of new driver support systems.....	69
<i>Sascha M. Sommer</i>	
Different congestion indications on dynamic route information displays.....	73
<i>Ilse M. Harms, Matthijs Dicke, &amp; Karel A. Brookhuis</i>	
The relation between seat belt use of drivers and passengers.....	81
<i>Erik Nuyts &amp; Lara Vesentini</i>	
An exploratory study on crew actions as a precondition to use remote experts for preventing shipping disasters.....	93
<i>Elsabé J. Willeboordse, Wilfried M. Post, &amp; Anthony W.K. Gaillard</i>	
Does Automatic Identification System information improve efficiency and safety of Vessel Traffic Services? .....	97
<i>Erik Wiersma &amp; Wim van 't Padje</i>	
<b>Risk &amp; Design</b>	
Turn on the lights: investigating the Inspire voice controlled smart home system .	105
<i>Heleen Boland, Jettie Hoonhout, Claudia van Schijndel, Jan Krebber, Sebastian Möller, Rosa Pegam, Martin Rajman, Mirek Melichar, Dietmar Schuchardt, Hardy Baeskow, &amp; Paula Smeele</i>	
Is there such a thing as a mental representation for interface layouts? .....	121
<i>Francesco Di Nocera, Michela Terenzi, Giovanni Forte, &amp; Fabio Ferlazzo</i>	

Risk assessment in industry and offices.....	129
<i>Piia Tint &amp; Karin Reinhold</i>	
Improvement of risk management in the marble industry.....	135
<i>Abdelaziz Tairi &amp; Ahmed Cherifi</i>	
Prevention of Repetitive Strain Injuries (RSI) at Delft University of Technology ..	139
<i>Marijke C. Dekker &amp; Kineke Festen-Hoff</i>	
Application of Human Factors Engineering to an Italian ferryboat .....	153
<i>Antonella Molini, Stefania Ricco, Manuela Megna, &amp; Dario Boote</i>	
Observed risk awareness in user centred design .....	157
<i>Freija van Duijne, Heimrich Kanis, Andrew Hale, &amp; Bill Green</i>	
Iteration in design processes.....	173
<i>Daniëlle M.L. Verstegen</i>	
<b>Alarms &amp; Sound</b>	
Acceptance of mobile phone text messages as a tool for warning the population ..	187
<i>S. (Simone) Sillem, J.W.F. (Erik) Wiersma, &amp; B.J.M. (Ben) Ale</i>	
Ways of representing sound.....	201
<i>Kirsteen Aldrich, Judy Edworthy, &amp; Elizabeth Hellier</i>	
The effect of phonetic features on the perceived urgency of warning words in different languages.....	205
<i>Mirjam van den Bos, Judy Edworthy, Elizabeth Hellier, &amp; Addie Johnson</i>	
A contextual vision on alarms in the intensive care unit.....	219
<i>Adinda Freudenthal, Marijke Melles, Vera Pijl, Addie Bouwman, &amp; Pieter Jan Stappers</i>	
The influence of perceptual stability of auditory percepts on motor behaviour.....	235
<i>René van Eegmond, Ruud G.J. Meulenbroek, &amp; Pim Franssen</i>	
<b>Anthropometry</b>	
Working postures and physical demands on a utility vehicle assembly line.....	247
<i>Laura K. Thompson, Thorsten Franz, &amp; Heinzpeter Rühmann</i>	
Ergonomic rucksack design for elementary school students in Indonesia to minimise low back pain .....	251
<i>Johanna Renny Octavia Hariandja, Bagus Arthaya, &amp; Nana Suryani</i>	
Comparison of genetic and general algorithms of MLPs in posture prediction based on 3D scanned landmarks.....	263
<i>Bing Zhang, Imre Horváth, Johan F.M. Molenbroek, &amp; Chris Snijders</i>	
The integration of anthropometry into computer aided design to manufacture and evaluate protective handwear.....	275
<i>Gavin Williams, Simon Hodder, George Torrens, &amp; Tony Hodgson</i>	
Enhancing the use of anthropometric data.....	289
<i>Johan Molenbroek &amp; Renate de Bruin</i>	
<b>Usability &amp; Performance</b>	
Differential usability of paper-based and computer-based work documents for control room operators in the chemical process industry.....	299
<i>Peter Nickel &amp; Friedhelm Nachreiner</i>	

Analogue presentation of flight parameters on a head-up display .....	315
<i>Antoine J.C. De Reus &amp; Harrie G.M. Bohnen</i>	
The effects of party line communication on flight task performance.....	327
<i>Helen Hodgetts, Eric Farmer, Martin Joose, Fabrice Parmentier,     Dirk Schaefer, Piet Hoogeboom, Mick van Gool, &amp; Dylan Jones</i>	
Yellow lessens discomfort glare: physiological mechanism(s).....	339
<i>Frank L. Kooi, Johan W.A.M. Alferdinck, &amp; David Post</i>	
<b>Automation &amp; Trust</b>	
Psychophysiological predictors of task engagement and distress .....	349
<i>Stephen H. Fairclough &amp; Louise Venables</i>	
Consequences of shifting from one level of automation to another: main effects and their stability .....	363
<i>Francesco Di Nocera, Bernd Lorenz, &amp; Raja Parasuraman</i>	
The Ergonomics of Attention Responsive Technology .....	377
<i>Alastair G. Gale, Kevin Purdy, &amp; David Wooding</i>	
ACC effects on driving speed – a second look .....	381
<i>Nina Dragutinovic, Karel A. Brookhuis, Marjan P. Hagenzieker, &amp; Vincent A.W.J. Marchau</i>	
<b>Medical Systems</b>	
Ergonomics in surgery .....	387
<i>Martine A. van Veelen &amp; Richard H.M. Goossens</i>	
The use of colour on the labelling of medicines .....	397
<i>Ruth Filik, Kevin Purdy, &amp; Alastair Gale</i>	
Data display in the operating room.....	401
<i>Noemi Bitterman, Gideon Uretzky, &amp; Daniel Gopher</i>	
Simulation and assessment of a North Sea rescue vessel.....	405
<i>Alistair Furnell, Matthew Mills, &amp; Paul Crossland</i>	
<b>Aviation</b>	
Task analysis, subjective workload and experienced frequencies of incidents in an airport control tower .....	417
<i>Clemens M. Weikert &amp; Suzanne A. van Ham</i>	
Measuring head-down time via area-of-interest analysis: operational and experimental data.....	427
<i>Brian Hilburn</i>	
Aviation incident reporting in Sweden: empirically challenging the universality of fear .....	437
<i>Kyla Steele &amp; Sidney Dekker</i>	
Effects of workload and time-on-task effects on eye fixation related brain potentials in a simulated air traffic control task .....	451
<i>Ellen Wilschut, Piet Hoogeboom, Ben Mulder, Eamonn Hanson, &amp; Berry Wijers</i>	
Fz theta divided by Pz alpha as an index of task load during a PC-based air traffic control simulation.....	465
<i>Matty Postma, Jan Schellekens, Eamonn Hanson, &amp; Piet Hoogeboom</i>	

Designing safety into future Air Traffic Control systems by learning from operational experience .....	471
<i>Deirdre Bonini &amp; Tony Joyce</i>	
<b>Management</b>	
How do we find safety problems before they find us?.....	479
<i>John A. Stoop</i>	
Developing a safety culture in a research and development environment:	
Air Traffic Management domain .....	493
<i>Rachael Gordon &amp; Barry Kirwan</i>	
Moving closer to Human Factors integration in the design of rail systems:	
a UK regulatory perspective .....	505
<i>Deborah Lucas</i>	
Problems of limited context in redesign of complex situations in infrastructures...	513
<i>Ellen Jagtman &amp; Erik Wiersma</i>	
Acknowledgement to reviewers.....	527