Poster Sessions (updated January, 4th)

Date: 13/02
Congress Hall
Time: 01:00 – 06:00pm

Area: Activity Theories for Work Analysis and Design

Safety Barrier-Operator interaction in Health-Care Systems
Tiziana C. Callari | Re, A | Di Franco, M

Area: Aerospace Human Factors and Ergonomics

The passing of the shift in aircraft maintenance - a task that produces deaths
Campos, Reginaldo; MARTINS, Edgard; SOARES, Marcelo
1 Department of Design, Federal University of Pernambuco, Brazil 2Department of Design, Federal University of Pernambuco, Brazil

Area: Aging

A individually tailored programme decreased long-term sickness absence among aging food factory workers
Nygard, C | Siukola, A | Huhtala, H | Virtanen, P

Influences of Tactile-Dot Height and Tip Radius of Curvature on the Operational Performance of Cellular Phones
Wataru Toyoda, Kouki Doi and Hiroshi Fujimoto
1Waseda University, Japan 2Department of Teacher Training and Information, National Institute of Special Needs Education, Japan 3Waseda University, Japan

Influences of the Edge Radius of Curvature of Tactile Dots and Bars on their Discriminability
Wataru Toyoda, Kouki Doi and Hiroshi Fujimoto
1Waseda University, Japan, 2Department of Teacher Training and Information, National Institute of Special Needs Education, Japan 3Waseda University, Japan

A literature review of major perceptual, cognitive, and/or physical test batteries for older drivers
Marc D. Gentzler and Janan A. Smither
1Department of Psychology, University of Central Florida, USA 2Department of Psychology, University of Central Florida, USA

Examining the Impact of Age and Multitasking on Motorcycle Conspicuity
Movement-in-Depth, Cognitive Impairment, and Crash Risk
Janan Al-Awar Smither, Marc C. Gentzler and Robert S. Kennedy
^aDepartment of Psychology, University of Central Florida, USA ^b RSK Assessments, USA

Area: Agriculture

Study of postures in sugarcane cutters in the Pontal of Paranapanema-SP, Brazil
Iracimara de Anchieta Messias, Emico Okuno
^aDepartment of Planning, Paulista State University, Brazil ^dDepartment of Nuclear Physics, University of São Paulo, Brazil

Postural analysis of workers in a typical meat processing company in Brazil
Wemerton Luis Evangelista, Ilda de Fátima Tinoco, Amaury Paulo de Souza- M.S., Ph Luciano José Minette- M.S., D.S. ; Fernando da Costa Baeta ; Emilia Pio da Silva- M.S., D.S. ; Luciana Aparecida de Oliveira- B.S. in Home Economics
^aFederal Institute of Minas Gerais, Brazil ^cFederal University of Viçosa, Brazil ^dForest Engineering Department, Federal University of Viçosa, Brazil

Area: Anthropometry

On the road toward the development of clothing size standards and safety devices for Chilean workers
Esteban Oñate, Felipe Meyer and Jorge Espinoza
^aUniversity of Concepcion, Chile

A study of automotive workers anthropometric physical characteristics from México northwest
Karla Lucero-Duarte, Enrique de la Vega-Bustillos, Francisco López-Millán
^aCemagref: Research Unit - Technologies for safety and performance of agricultural equipment, France ^bUniversity Paris Sud XI, France ^cArts et Metiers ParisTech, France
Anthropometric data of adult wheelchair users for Mexican population
Karla Lucero-Duarte, Enrique de la Vega-Bustillos, Francisco López-Millán, Selene Soto-Félix

Analysis of the Suitability of Furniture University - Anthropometric Characteristics of User
Amanda S. Castilho, Camila de Cássia A. Leme and Rosimeire S. Padula

A Practical Approach to the Assessment of Manual Handling Equipment for Cargo: Multinational Abrasives in Brazil
João Barbosa Neto, Eduardo Aparecido Centeio, Fernando de Sampaio Siqueira, Rosimeire Simprini Padula

Anthropometry of Algerian elderly
Bouabdallah, L.

Area: Auditory Ergonomics
A study on the influence of headphones in auditory perceptual function
Yoshinori HORIE and Takashi TORIIZUKA

Effects of placement point of background music on shopping website
Chien-Jung Lai and Chia-Chi Chiang

Area: Building and Construction
Critical analysis about solutions and models of solar shades in non-residential buildings from tropical regions.
Castañon. J.A.B., Caldeira, L.F.D., Gervásio, M.F., Brum, F.M.

Mass of materials: The impact of designers on Construction Ergonomics
John Smallwood

Ergonomic study in furniture manufacturing facilities
Amaury Souza | Minetti, L | de moraes, A | Zama e Santiago, M

Abandonment and accessibility in railway historical buildings: Central do Brasil and Leopoldina Railstation
BRASIL, C.C.G., COSTA, A.M., CASTAÑON, J.A.B.
Ergonomics in built environment: wayfinding and airports
Lucia Ribeiro | Mont’Alvão, C

The question of the ergonomic use of virtual models
CASTAÑON, J.A.B., SARAIVA, T.S., ARAUJO, T.T.
Department of Transport, Federal University of Juiz de Fora, Brazil

Area: Ergonomics Analysis of Work and Training

Differences in cashiers work technique regarding wrist movements when scanning groceries
Palm Petera,b, Johansson Elin, Kjellberg Katarinã and Josephson Malin
aDepartment of Medical Sciences Occupational and Environmental Medicine, Uppsala University, Sweden. bDepartment of Occupational and Public Health Sciences, University of Gävle, Sweden. ãDepartment of Public Health Sciences, Karolinska Institute, Sweden.

Differences in workstyle behaviors between cashiers regarding use of idle time
Peter Palm | Kjellberg, K | Josephson, M | Johansson, E

Ergonomics analyses of five joineries located in Florianópolis-SC, using the LEST Method.
Lizandra Lupi García Vergara, Carolina Schwinden García, Felipe Vergara Miranda
aProduction and Systems Department, Federal University of Santa Catarina, Brazil

Experimental indicators of ergonomic wellness and quality of life: salivary and hair cortisol.
P. L. Espositoa, A. Cominb, T. Pericb, M. Montillo, M. Mascoloc, G. Tubarod and A. Prandib
aUniversity of Udine, Italy bDepartment of Food Science, University of Udine, Italy cDepartment of Neurology, Hospital of San Giorgio, Italy dDepartment of Civil Engineering and Architecture, University of Udine, Italy

Increased of brazilian productivity in the slaughterhouse sector: a review
Márcia Rosângela Buzanello and Antônio Renato Pereira Moro
aFederal University of Santa Catarina, Brazil bState University of West of Paraná, Brazil cFederal University of Santa Catarina, Brazil dFederal University of Santa Catarina, Brazil

The ergonomic process of an automotive company in Brazil: a study case
Carolina Bustos, Daniela Fischer, Lucimara Ballardina and Rudolf Nielsena
aProcesses and Environments Ltda.

Ergonomic risks in mining companies: A study in Paraiba/Brazil
aDepartment of Industrial Engineering, Federal University of Campina Grande, Brazil bDepartment of Industrial Engineering and Management, University of Porto, Portugal cDepartment of Food Engineering, Federal University of Grande Dourados, Portugal

The challenges of interdisciplinary education and its application on teaching ergonomics
Letícia Holtz Barbosa and Maria Helena Câmara Pinheiro
aPhysiotherapy Department, University Center Barão de Mauá, Brazil bPsycology Department, University of Ribeirão Preto, Brazil

Job satisfaction among control room operators of electrical systems
Amanda A Silva Macaia, Elaine C Marquezé, Lúcia Rotenberg, Frida Marina Fischer, Claudia R C Moreno

Environmental Health Department, University of São Paulo, Brazil

Analysis of the Ergonomic Usage of the ARMflex® in the Odontological Area

Cynthia Casagrande Matos, Alda Milagres de Assis, Lucas Viana Quites and Daniela Casagrande Matos.

University of Ouro Preto, Brazil

The Structuring of an Ergonomics Program as a Center of Occupational Health Component in a Public Health Institution

Suzana S. M. Lugão, Simone L. S. I. Ricart, Renata M.S. Pinheiro, and Waldney M. Gonçalves.

Oswaldo Cruz Foundation (FIOCRUZ), Brazil

Analysis of working conditions focusing on biological risk: firefighters in Campo Grande, MS, Brazil

Luciana Contrera-Moreno, Sonia Maria Oliveira de Andrade, Ana Rita Coimbra Motta-Castro, Alexandra Maria Almeida Carvalho Pinto, Frederico Reis Pouso Salas and Alcione Cavalheiros Faro Stief.

Federal University of Mato Grosso do Sul, Brazil

Ergonomic analysis of the work conditions of porters and owners of the Supply Center of Campinas, SP

Tatiana Giovanelli Vedovato, Maria Inês Monteiro, Valéria Aparecida Masson.

State University of Campinas, Brazil

Validity of heart-rate based measurements of oxygen consumption during work with light and moderate physical activity

Eva Bernmark, Mikael Forsman, Gunilla Pernold and Christina Wiktorin.

Department of Public Health Sciences, Karolinska Institute, Sweden

Regulation in work and decision-making in the activity of Public Prosecutors in SC

Beatriz Marcondes de Azevedo, Roberto Moraes Cruz.

Department of Production Engineering, Santa Catarina Federal University, Brazil

Finding the Team for Mars: A Psychological and Human Factors Analysis of a Mars Desert Research Station Crew

Benjamin D. Sawyer, P.A. Hancock, John Deaton and Peter Suedfeld.

Psychology Department, University of Central Florida, USA

UBC Department of Psychology, Vancouver

ERGONOMIC ANALYSIS FOR INTEGRATION OF INDUSTRIAL CHAIRS: A CASE STUDY IN A PERNAMBUCO’S SWIMWEAR MANUFACTURER

Carlos Vilar | Soares, M

Wood, management and dust: Analysis of the Context of Production of Goods and Services (CPGS) of an academic woodwork

Isabella von Mühlen Brandalise, Paula Macedo César and Clara Cristina de Souza Rêgo.
Maximum force levels in different positions of shoulder and elbow.
Castro C. a, De la Vega E. b, Báez G. c and Carrasco F. d.

Industrial Design Department, University of Brasilia, Brazil.

Development of the Workflow Line Systems for Support on KAIZEN
Yuki MIZUNO a,b, Toshihiko ITO c, Toru YOSHIIWA b, Satoshi YOMOGIDA c, Koji MORIO d, Kazuhiro SAKAI b.

Lean Six Sigma applied to Ergonomics
Eduardo Santos | Lima, C

Ergonomics and the Inclusion of Disabled People in the Brazilian job market

New guidelines for health care for alcohol and drug users and the real work: possible contributions of ergonomics to the restructuring of work and competence development
Daniela Tonizza de Almeida a and Eliza Helena de Oliveira Echternacht b.

SUPPORT SYSTEM FOR MANAGEMENT OF SHARES ERGONOMIC
Raphael Pacheco da Rocha a, Mario Cesar Rodriguez Vidal a.

Ergonomic evaluation of the preparation of cuttings and minicuttings for eucalyptus seedling production, with the use of scissors
Eduarda Gabriela Santos Cunha a, Amaury Paulo de Souza b, Luciano José Minette c.

Slope effect on pushing forces
Turpin-Legendre E., Meyer J.P.

Statistical precision of categorical PATH observations of trunk posture.
Jennie Jackson a, Laura Punnett b and Svend Erik Mathiassen a.
Ports Reestructuring: What Has Changed after the Brazilian Law 8.630/93
Isaac Andrade | Maciel, R | Fontenelle, M | Matos, T

Analysis of the workload of bank tellers of a Brazilian public institution
Simoni S. Serikawa\textsuperscript{a}, Ana Carolina S. Albieri\textsuperscript{a}, Gustavo P. Bonugli\textsuperscript{a}, Marina F. Greghi\textsuperscript{a}
\textsuperscript{a} SENAC UNIVERSITY CENTER, Brazil

Body postures versus production requirements - the case of a fiberglass parts factory
Silva, V\textsuperscript{a}; Pereira, B\textsuperscript{b}; Maria, R\textsuperscript{b} and Chagas, T\textsuperscript{c}
\textsuperscript{a}University Center of Patos de Minas, Brazil \textsuperscript{b}Federal Institute of Education, Science and Technology of Minas Gerais, Brazil \textsuperscript{c}Federal University of Ouro Preto, Brazil

A novel wearable measurement system for ambulatory assessment of joint loading in the occupational setting
Gert Faber\textsuperscript{a,b}, Chien-Chi Chang\textsuperscript{c}, Idsart Kingma\textsuperscript{b}, Jack T. Dennerlein\textsuperscript{a}
\textsuperscript{a}Department of Environmental Health, Harvard School of Public Health, USA \textsuperscript{b}VU University, The Netherlands \textsuperscript{c}Liberty Mutual Research Institute for Safety, USA

Using practical ergonomic evaluations in the restaurant industry to enhance safety and comfort: A case study
Marc D. Gentzler\textsuperscript{a} and Janan A. Smither\textsuperscript{b}
\textsuperscript{a}Department of Psychology, University of Central Florida, USA \textsuperscript{b}Department of Psychology, University of Central Florida, USA

Ergonomic Assessment of Porridge Roaming Sale System
Braga\textsuperscript{a}, J.; Cardoso\textsuperscript{b}, V.; Abreu\textsuperscript{c}, A.; Didoné\textsuperscript{c}, L.; Evangelista\textsuperscript{c}, M. and Serra\textsuperscript{c}, F.
Federal University of Amazonas, Brazil

Effects of a Labor Gym program in mental workload of workers from rectory of UNIOESTE
Isabele Maia Galvão\textsuperscript{a}; José Mohamud Vilagrá\textsuperscript{b}; Helenara Salvati Bertolossi Moreira\textsuperscript{c}; Antônio Renato Pereira Moro\textsuperscript{d}; Roberto Moraes Cruz\textsuperscript{e}; Pedro Ferreira Reis\textsuperscript{f}; Mauricio Bertolossi Moreira\textsuperscript{g}
\textsuperscript{a}State University of West of Paraná – UNIOESTE \textsuperscript{b}State University of West of Paraná – UNIOESTE and Assis Gurgacz – FAG \textsuperscript{c}State University of West of Paraná – UNIOESTE \textsuperscript{d}Federal University of Santa Catarina – UFSC \textsuperscript{e}PPGEP/ UFSC \textsuperscript{f}Physical educator acting at Labor Gym area

Area: Ergonomics for Children and Educational Environments

Analysis on the relationship between the school furniture and the work surface lighting and the body posture of public Middle School students from João Pessoa, Paraíba, Brazil
Luiz Bueno da Silva\textsuperscript{a}, Eliza Juliana da Costa Eulálio\textsuperscript{b}, Antonio Souto Coutinho\textsuperscript{c}, Elaine Victor Gonçalves Soares\textsuperscript{d} and Roberta de Lourdes Silva dos Santos\textsuperscript{e}
\textsuperscript{a}Industrial Engineering Department, Federal University of Paraíba, Brazil.

The "Posture Pad": An Ergonomic Posture Feedback Device
Rhonda Epstein | Epstein, E | Colford, S | Walsh, M | Loyer, B | Jakobs, K

Ergonomic Considerations in School Environments - The Need for Widening the Scope
Kapila Jayaratne
Ministry of Health, Sri Lanka

FURNITURE DIMENSIONS AND POSTURAL OVERLOAD FOR SCHOOLCHILDREN’S NECK AND UPPER LIMBS
Mariana Batistão | Coury, H | Moriguchi de Castro, C | Hansson, G | Sato, T | Sentanin, A

Ergonomic adequacy of the baby nursery of child development center located in UFSC - Florianópolis
Lizandra Garcia Lupi Vergara and Lucie Elisa Ribet
Production and Systems Engineering Department, Federal University of Santa Catarina, Brazil

Sleep patterns and sleepiness of working college students
Liliane Teixeira, Arne Lowden, Andrea Aparecida da Luz, Samantha Lemos Turte, Daniel Valente, Roberto Jun Matsumura, Leticia Pickersgill de Paula, Meire Yuri Takara, Roberta Nagai-Manelli and Frida Marina Fischer
National School of Public Health, FIOCRUZ, Brazil
Stress Research Institute, Stockholm University, Sweden
Department of Environmental Health, School of Public Health, University of São Paulo (USP), Brazil

Global Healthy Backpack Initiatives
Kapila Jayaratne, Karen Jacobs and Dulitha Fernando
Ministry of Health, Sri Lanka
Department of Occupational Therapy, Boston University, USA
Department of Community Medicine, University of Colombo, Sri Lanka

Date: 14/02
Congress Hall
Time: 01:00 – 06:00pm

Area: Ergonomics in Design

MANUAL BAMBOO CUTTING TOOL
Mariana Pereira Bezerra (1) Walter Franklin Marques Correia (2) Fabio Ferreira da Costa Campos (3)
(1)Federal University of Pernambuco, Brazil; (2)Federal University of Pernambuco, Brazil;
(3)Federal University of Pernambuco, Brazil

The correlation between thermal comfort in buildings and fashion products
Aline Giesel, Patrícia de Mello Souza
Department of Design, State University of Londrina, Brazil
Department of Design, State University of Londrina, Paulista State University, Brazil

The Incubator Hospital from the viewpoint of Ergonomic
Stephany Martins de A. Souza; Vânia Maria Batalha Cardoso
Federal University of Amazonas, Brazil
Federal University of Amazonas and Ergodesign Service of University Hospital Getúlio Vargas, Brazil

Usability of Car Stereo
Razza, Bruno Montanari, Paschoarelli, Luis Carlos
Department of Design and Fashion, Maringa State University, Brazil
São Paulo State University, Brazil
THE SUITABILITY OF THE DESIGN OF HANDBAGS TO THE TROPICAL CLIMATE
Camila Osugi Cavalcanti de Alencar¹ and Jorge Boueri²
¹University of São Paulo, Brazil ²University of São Paulo, Brazil

Seniors and Technology, ergonomic needs and design considerations
Claudia Isabel Rojas Rodríguez
Pedagogical and Technological University of Colombia, Colombia

Inclusive design in the implementation of projects for schools modernization in Portugal - case studies
Lígia Lopes³, Carlos Aguiar⁴, Fernando Moreira da Silva⁵
³CIAUD, Research Centre in Architecture, Urban Planning and Design, Faculty of Architecture, Technical University of Lisbon ⁴FEUP, Faculty of Engineering, University of Porto ⁵CIAUD - Research Centre in Architecture, Urban Planning and Design, Faculty of Architecture, Technical University of Lisbon

User-Centered Design (UCD) applied to the Identification and Modification of Un sustainable Practices.
Mercado Colin Lucila⁶, Rodea Chávez Alejandro⁷
⁶Department of Design Theory and Process, Autonomous Metropolitan University, Mexico ⁷National Autonomous University of Mexico, Mexico

Perceptual aspects of the use of faucets (taps)
Lívia F. de A. Campos⁸, Luis Carlos Paschoarelli⁹
⁸Paulista State University, Brazil

Colour, Vision and Ergonomics
Cristina Pinheiro⁸, Fernando Moreira da Silva⁹
⁸Technical University of Lisbon, Portugal ⁹Technical University of Lisbon, Portugal

A proposal for an ergonomic redesign for a mixer Mondial B-02
SILVA JUNIOR, Adilson J.⁸ and BARROS, Bruno⁹
⁸Federal University of Pernambuco, Brasil ⁹Federal University of Pernambuco, Brazil

Cognitive Ergonomics and Production Information Systems under the gaze of interdisciplinary Design or Industrial Design
Luciene Bulhões Mattos⁸
⁸Federal Institute of Education, Science and Technology of Bahia – IFBA, Bahia, Brazil

Postmen Activity's Analysis
Fabiola Reinert⁸, Cristina Lucio⁹
⁸Department of Mechanical Engineering, Santa Catarina Federal University, Brazil ⁹Design and Fashion Department, Maringa State University, Brazil

Analysis of ergonomic furniture made of wood and sub-products from renewable forests
Luciana Aparecida de Oliveira, B.S. in Home Economics⁸, Amaury Paulo de Souza, Ph.D.⁹, Patricia Bhering Fialho, D.S.⁹, Luciano José Minette, D. S.⁹, Fernanda Freitas Costa de Torres, D. S.⁹
⁸,⁹Forest Engineering Department, Federal University of Viçosa, Brazil ⁹Federal Center of Technological Education of Minas Gerais, Brazil ⁹Farroupilha Federal Institute, Brazil
Design considerations to improve cognitive ergonomic issues of unmanned vehicle interfaces utilizing video game controllers
P. Oppold; M. Rupp; M. Mouloua; P.A. Hancock; and J. Martin
Psychology Department, University of Central Florida, USA

An Evaluation of Keyboard Interface Types on Driver Distraction
Audrey Fok | Sawyer, B | Hancock, P | Mouloua, M

Area: Ergonomics in Manufacturing

Macroergonomic intervention for work design improvement and raw materials waste reduction in a small footwear components company in Rio Grande do Sul-Brazil
Renata Cornelli a and Lia Buarque de Macedo Guimarães b
 a,b Graduate Program in Industrial Engineering, Federal University of Rio Grande do Sul, Brazil

Study about upper limb on highly repetitive work in maquila operations
Lopez-Millan Francisco; De la Vega, Enrique; Rodriguez, Manuel; Ayala, Armando
 a Technological Institute of Cd. Juarez, Mexico b Technological Institute of Hermosillo, Mexico

ERGONOMIC STUDY OF AN OVEN OPERATOR WORK POST IN AN OVEN CERAMIC INDUSTRY IN PERNAMBUCO
Carlos Vilar | Colaço, G | Silva, J | Oliveira, J

Ergonomics aspects and productivity in a Production line: a case study
João Camarotto | Vanalle, R | Lopes, M

Preponderance and possible factors associated to musculoskeletal symptoms in metals industry workers
Eunice Tokars a, Antonio Renato Pereira Moro a, Gabriel Grabner dos Santos b
 a Federal University of Santa Catarina, Brazil b Physiotherapist in Curitiba, Brazil.

The Ergonomics Approach for Thin Film Transistor-Liquid Crystal Display Manufacturing Process
Chih-Wei Lu a, Chia-Chun Yao b, Chein-Wen Kuo b
 a Industrial and systems Engineering Department, Chung Yuan Christian University, Taiwan
 b Graduate Institute of Occupational Safety and Heath, Kaohsiung Medical University then University, Taiwan

Area: Healthcare Ergonomics

Interface of drug use
N.O. Ludescher a, R.R. Vergilio a, C.C. Lucio a,b, J.E.G. Santos b
 a,b Design and Fashion Department, Maringa State University, Brazil b São Paulo State University, Brazil

The Effect of Visualization Method on the Performance of Simulated Microsurgery Tasks
Denny Yu 1, Michael E. Sackllah 1, Charles B. Woolley 1, Steven J. Kasten 2, Daniel Kim 1, Cooper Green 1 and Thomas J. Armstrong 1


Static load in the nursing profession; the silent killer?
Knibbe, J.J., N.E.Knibbe
LOCOmotion, The Netherlands.

An International Validation Study of the Care Thermometer: a tool supporting the quality of ergonomic policies in health care
Knibbe, J.J., N.E.Knibbe
LOCOmotion, The Netherlands.

Flying through the Hospital: efficiency and safety of an ergonomic solution
Knibbe, J.J., N.E.Knibbe, E.Waaijer
LOCOmotion, The Netherlands

The gap between prescribed work and real work.
Andréa Trierweiller | Azevedo, B | Silveira, A | Sepúlveda, G

Ergonomics in the operating room
Jenny Greemark Simonsen, Inger Arvidsson and Catarina Nordander
Department of Occupational and Environmental Medicine, University Hospital, Sweden

COMPARISON OF INDEX OF ABILITY TO WORK (ICT) AMONG WORKERS OF FIXED SHIFTS AND SHIFTS WITH RELAY
Luciana Duarte Satler de Oliveira and Sarina Occhipinti Magalhães
\(^a\)FUMEC University, Brazil \(^b\)Federal University of Minas Gerais, Brazil

EVALUATION OF THE HEALTH RISKS TO GARMENT WORKERS IN THE CITY OF XAMBRÊ – PR, BRAZIL.
Marco Antônio Sant’Ana and Fabrício Kovalechen
\(^a\)ERGOSALUTE, Brazil \(^b\)Paranaence University, Brazil

Designing the Care Environment in Hospitals and Nursing homes: a pilot for a new and reliable method for determining the optimum space to live in and work in
Knibbe, J.J., E.Waaijer
LOCOmotion, The Netherlands.

THE EFFECTS OF TYPES OF VISUALIZATIONS ON THE PERFORMANCE AND LEVEL OF DISCOMFORT OF MICROSCOPIC SURGEON
Daniel Kim | Yu, D | Armstrong, T | Woolley, C | Sackllah, M | Kasten, S | Green, C

The influence of an abdominal support for a dental stool in the distributions and electrical activity of the longissimus and the superior trapezius muscle in dentists
Custódio RAR, Brandão JGT and Amorim JBO
\(^a\)Department of Mechanical, State University of São Paulo, Brazil \(^b\)Department of Biosciences and Oral Diagnosis, State University of São Paulo, Brazil

Assessments of patients with a 5-category or a 3-category practical classification system: validity and practicality
Knibbe, J.J., N.E.Knibbe, E.Waaijer
LOCOmotion, The Netherlands.
The Businesscase for Ergonomic Changes in Health Care: calculating and predicting financial outcome for ergonomic changes and innovations in health care: interactive businesscase modelling
Knibbe, J.J., N.E.Knibbe
LOCOMotion, Research in Health Care, The Netherlands.

Study on workloads of human care worker with the introduction of IT system - The characteristics of work loads by observational research and the suggestions for KAIZEN - Yuki MIZUNO a,b, Toru YOSHIKAWA b, Fumiko MATSUDA b, Yuriko TAKEUCHI b, Nobuyuki MOTEGI a, Thor IKEGAMI c, Kazuhiro SAKAI b
aToyo Gakuen University Center for Liberal Arts, Japan bDepartment of Research, The Institute for Science of Labour, Japan cITI Consultancy, Japan

Experimental study of assistant aids and new nursing method in nursing care work
Nobuyuki MOTEGI a, Fumiko MATSUDA a, Yuriko TAKEUCHI a and Tetsuo MISAWA b
aInstitute for Science of Labour, Japan bChiba Institute of Technology, JAPAN

Human Factors Methods to Reduce Medication Error: Using Task Analysis in a Pediatric and Adult Pharmacy
Nicole E. Werner, Erik T. Nelson a and Deborah A. Boehm-Davis a
aPsychology Department, George Mason University, United States.

Ergonomics Assessment of Dental Clinic Room at Public Health System.
Eliel Soares Orenha a, Suely Mutti Carvalho Naressi a, Symone Cristina Teixeira a, Enzo Rosetti a, José Carlos Plácido da Silva b, Mariana Falcão Bormio b, Artemis Rodrigues Fontana b, Marcelo de Castro Meneghi b, Angélica Critiane Búlio Soares a and Jerome Rotgans d
aSocial and Infantile Clinics Department, Paulista State University, Brazil bDepartment of Industrial Design, Paulista State University, Brazil cDepartment of Social Dentistry, University of Campinas, Brazil dRWTH Aachen University, Germany

The ambivalence of the work of the hotel managers: an approach to ergonomics
Cyntia Maria de Gois Leite a, Ricardo José Matos de Carvalho, DSc. b
a,bFederal University of Rio Grande do Norte, Brazil

Area: Human Factors and Sustainable Development

Emotions and leadership. Reasons and impact of emotions in organizational context
Meike Siebert-Adzic
Department of Human and Organizational Engineering and System Design, University of Kassel, Germany

Harassment at work? Empowerment and autonomy as coping strategies of young workers
Samantha Lemos Turte a, Maria Eduarda Cavadinha Correa b, Andrea Aparecida da Luz a and Frida Marina Fischer a
aDepartment of Environmental Health, University of São Paulo, Brazil bDepartment of Maternal and Child Health, University of São Paulo, Brazil

The relationship between heart rate as an indicator of work hardness and results of dynamometry
Nasrin Sadeghi\textsuperscript{a}, Hamidreza Tolide-ie\textsuperscript{b}, Fatemeh Ghaderi\textsuperscript{c}
\textsuperscript{a}Department of Occupational hygiene, Gonabad University of Medical Sciences, Iran
\textsuperscript{b}Department of Public health, Gonabad University of Medical Sciences, Iran
\textsuperscript{c}Shiraz University of Medical Sciences, IRAN

The Municipal Solid Waste and the quality of life of collectors of recyclable materials in Juiz de Fora, Minas Gerais
Aline de Barros Pimenta\textsuperscript{a}, Sueli Maria dos Reis Santos\textsuperscript{b}, Maria Cristina Pinto de Jesus\textsuperscript{b}, Marcos Mantins Borges\textsuperscript{c}, Geraldo Luciano de Oliveira Marques\textsuperscript{d} e José Gustavo Francis Abdalla\textsuperscript{e}
\textsuperscript{a}Federal University of Juiz de Fora, Brazil \textsuperscript{b}Federal University of Juiz de Fora, Brazil
\textsuperscript{c}Federal University of Juiz de Fora, Brazil \textsuperscript{d}Federal University of Juiz de Fora, Brazil

\textbf{Area: Human Simulation and Virtual Environments}

Cognitive-ergonomics and instructional aspects of e-learning courses.
Rodrigues, Martha\textsuperscript{a}; Castello Branco, Iana\textsuperscript{a}; Shimioshi, José\textsuperscript{b}; Rodrigues, Evaldo\textsuperscript{b}; Monteiro, Simone\textsuperscript{a} and Quirino, Marcelo\textsuperscript{a}
\textsuperscript{a}University of Brasilia, Brazil \textsuperscript{b}University of Brasilia, Brazil

Task Analysis using an Inexpensive Marker Tracking System-Clinical Application
Russel Corvese | Armstrong, T | Nicholas, J | Woolley, C

The Ambient Intelligence for the sake of accessibility in residential projects: a proper study to the Brazilian scene
Castañon J.A.B., Maia, M.P.F., Silva, M.C.C.
Federal University of Juiz de Fora, Brazil

Augmented Reality Platform for Vehicle Interior Ergonomics Evaluation
Jing Xu, Fan Xumin, Qiu Shiguang
Shanghai Jiao Tong University, China

Proposal of Digital Interface for the System of the Air Conditioner’s Remote Control: analysis of the system of feedback
Raisa da Silva de Queiroz Pierre\textsuperscript{a}, Tarô Arthur Tavares Kawada\textsuperscript{b} and André Guimarães Fontes\textsuperscript{c}
\textsuperscript{a}Instituto de Ensino Superior FUCAPI – CESF, Brazil \textsuperscript{b}Instituto de Ensino Superior FUCAPI – CESF, Brazil
\textsuperscript{c}Instituto de Ensino Superior FUCAPI – CESF, Brazil.

\textbf{Area: Musculoskeletal Disorders}

The effects of exercise reminder software program on office workers’ perceived pain level, work performance and quality of life.
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Effect of finger interaction on individual finger: index finger
Yong-Ku Kong, Min-Tae Seo, Hyun-Sung Kang and Dae-Min Kim
Sungkyunkwan University, South Korea
Psychosocial indicators among aircraft maintenance workers with and without neck and shoulder musculoskeletal symptoms
Oliveira, A<sup>a</sup>; Nogueira, H<sup>b</sup>; Diniz, A<sup>b</sup> and Barbieri, D<sup>b</sup>
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Risk Factors, Clinical Features and Outcome of Treatment of Work Related Musculoskeletal Disorders in On-Site Clinics among IT Companies in India
Deepak Sharan<sup>1</sup>, Ajeesh PS<sup>2</sup>, Rameshkumar R<sup>3</sup> and Jeena Jose<sup>1</sup>
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Ergonomic recommendations when texting on mobile phones
Ewa Gustafsson
University of Gothenburg, Sweden

Applying a time-limit model of movement frequency to field data: is it possible?
Emmanuelle Turpin-Legendre, Jean-Pierre Meyer
National Institute for Safety and Research, France

Prevalence of cervicobrachial discomforts in elementary school teachers
Bruna Angela Antonelli<sup>a</sup>, Antonio Augusto de Paula Xavier<sup>b</sup>, Paulina Oenning<sup>b</sup>, Michel Henrique Baumer<sup>b</sup>, Tarcisio Fulgêncio Alves da Silva<sup>b</sup> and Luiz Alberto Pilatti<sup>b</sup>
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Prevalence of discomfort/pain complaints and related factors in dental professionals of the public health service in Araucária, Paraná state, Brazil
Rosimeire Sedrez Bitencourt<sup>a</sup> and Maria Isabel Ricardo<sup>b</sup>
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Exposure assessment in different occupational groups at a hospital using Quick Exposure Check (QEC) – A pilot study
Pernilla Ericsson<sup>a</sup>, Martin Björklund<sup>b</sup>,<sup>c</sup> and Jens Wahlström<sup>d</sup>
<sup>a</sup>Umeå University Hospital, Sweden <sup>b</sup>Department of Occupational and Public Health Sciences, University of Gävle, Sweden <sup>c</sup>Department of Community Medicine and Rehabilitation, Physiotherapy, Umeå University, Sweden <sup>d</sup>Department of Public Health and Clinical Medicine, Umeå University, Sweden

Musculoskeletal symptoms and work ability among agricultural machinery operators
Daniela Milani<sup>a</sup> and Maria Silvia Monteiro<sup>b</sup>
<sup>a</sup>University of São Carlos, Brazil <sup>b</sup>Nursing Department, Federal University of São Carlos, Brazil

MUSCULOSKELETAL SYMPTOMS IN WORKERS OF A TELECOM COMPANY
ANTUNES, Evelise Dias<sup>a</sup>, ARAÚJO, Célia Regina Alves de<sup>a</sup> and ABAGE, Zilda<sup>c</sup>
<sup>a</sup>Retory Department, Institute of Paraná, Brazil <sup>b</sup>Retory Department, Institute of Paraná, Brazil <sup>c</sup>Phisioterapy Departament, UNIANDRADE, Brazil

Musculoskeletal symptoms and workers’ perception about job factors in a pulp and paper industry
Marina Zambon Orpinelli Coluci<sup>a</sup>, Neusa Maria Costa Alexandre<sup>a</sup> and Thais de Freitas Pedrini<sup>a</sup>
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Physical Variation in Low-Load Work – Physiological Effects During Exposure & Recovery
Marcus Yung\textsuperscript{a} and Richard Wells \textsuperscript{a,b}
\textsuperscript{a}Department of Kinesiology, University of Waterloo, Canada \textsuperscript{b}Centre of Research Expertise for the Prevention of Musculoskeletal Disorders (CRE-MSD), Canada

The Relationship between Cognitive Load and Musculoskeletal Disorders: a Case Study.
Andréa Trierweiller | Cruz, R | Peixe, B | Azevedo, B | Silveira, A

Raising awareness of psychosocial factors in the occurrence of low back symptoms in developing countries
Baiduri Widanarko\textsuperscript{a,d}, Stephen Legg\textsuperscript{a}, Jason Devereux\textsuperscript{b}, Mark Stevenson\textsuperscript{c}
\textsuperscript{a}Massey University, New Zealand \textsuperscript{b}Department of Psychology, University College London, UK
\textsuperscript{c}EpiCentre, Massey University, New Zealand \textsuperscript{d}Department of Occupational Health and Safety, Indonesia University, Indonesia

Low back injuries related to nursing professionals working conditions: a systematic review
Roberta Schlossmacher\textsuperscript{a} and Fernando Gonçalves Amaral\textsuperscript{b}
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The physical workload analysis method: application of ergonomics standards for companies of any size
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Application of European and international standards in ergonomics for manual handling for lifting, moving and pushing/pulling
ZANA J-P*, MEYER J-P**, Turpin-Legendre E.**
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Cardiovascular and subjective strain during upper limb endurance tests
Turpin-Legendre E., Meyer J.P.
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Field data for "acceptable" frequency of repetitive task: data to support standardization work
Emmanuelle Turpin-Legendre, Jean-Pierre Meyer
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Stress and musculoskeletal discomfort among hydrocarbon industry workers in Mexico
R. Avila-Chaurand \textsuperscript{a}, L.R. Prado-León and E.L. González-Muñoz
\textsuperscript{a}University of Guadalajara, Mexico.

Analysis of the compensatory postures adopted by day caregivers through OWAS-Ovako Working Posture Analysing System
Helenara Salvati Bertolossi Moreira\textsuperscript{a}, Mauricio Bertolossi Moreira\textsuperscript{b}, José Mohamud Vilagra\textsuperscript{c}, Isabele Maia Galvão\textsuperscript{d} Abel Santos de Oliveira Júnior\textsuperscript{e} Andrea Cristina de Lima\textsuperscript{f}
\textsuperscript{a}State University of West of Paraná – UNIOESTE, Brazil \textsuperscript{b}Physical educator acting at Labor Gym area \textsuperscript{c}State University of West of Paraná – UNIOESTE \textsuperscript{d}State University of West of Paraná – UNIOESTE \textsuperscript{e}State University of West of Paraná – UNIOESTE, Brazil \textsuperscript{f}Physiotherapist
THE IMPORTANCE OF ERGONOMICS IN THE DESIGN CONCEPTUAL PROCESS: Daciano da Costa
– A Case Study on Practicing and Teaching
MOREIRA DA SILVA, Ana
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Area: Organizational Design and Management

Ergonomic and organizational analysis of an association of collectors of recyclable waste
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Consequences of Organizational Commitment in Abolished Company Sports Team - A Case Study in Japan-
Yuki HONDA, Yasuyuki HOCHI, Motoki MIZUNO
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A Study on the Relationship between Commitment of Club Activity and Vocational Readiness among University Students
takashi MIZUSAWA, Yasuyuki HOCHI and motoki MIZUNO
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Relationship between Collective Efficacy and Contextual Performance among University Athletes in Japan
Yasuyuki HOCHI, Motoki MIZUNO, Takahiro NAKAYAMA, Ikuyo KANNEKO and Kaoru KITAMURA
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A Longitudinal Study on the Effects of Team Building for University Baseball Team in Japan : From the View Point of Team Vitalization
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Relationship between State Anxiety and Success Rate in Game Performance, Coach’s Evaluation among Japanese University Volleyball Players
Kai YAMADA, Yuiiro KAWATA, Nobuyuki NAKAJIMA and Masataka HIROSAWA
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Construction of the integrated model for practical career support to the professional athletes
Motoki MIZUNO, Yasuyuki HOCHI, Mami INOUE, Ikuyo KANEKO, Yasuyuki YAMADA
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Using Balanced Scorecard (BSC) aproach to improve Ergonomics Programs
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Proposal for an integrative methodology to development the ergonomic program
Lopez-Millan Franciscoa, De la Vega Enriqueb, Lucero Duarte Karlab, Diaz Muro Marthaa
aTechnological Institute of Cd. Juarez, Mexico bTechnological Institute of Hermosillo, Mexico

Ports Modernization and its Influence on Trade Unions
Regina Heloisa Maciela, Taise Araújo Lopesa, Rosemary Cavalcante Gonçalvesa
aUniversity of Fortaleza, Brazil.

The Relationship between Perceived Quality and Divulgation Strategies of Products in the Electronic Marketplace
João Costaa and Milton Hornb
aFederal University of Santa Catarina, Brazil bFederal University of Santa Catarina, Brazil

Cognitive and Organizational Ergonomics in the Transition of the New Integrated Center of Control of an Oil Refinery: Human Reliability and Administration of Changes
Lucy M. S. Bua;b, Magda S.E.S. Puquirreb, Sandro A. Busoa, Érika L. Ogasawarab, Carolina R. Marcon Passeroa;b, Marcos C. Bianchia
aPetrobras, Petróleo Brasileiro SA., Brazil. bFisiotrab Ergonomia, Brazil

Area: Psychophysics in Ergonomics

Mind reading through the eyes: an fMRI study
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Daily rhythm of salivary IL-1ß, cortisol and melatonin in day and night workers
Érica Lui Reinhardta;b, Pedro Augusto Carlos Magno Fernandesa, Regina Pekelmann Markusc, and Frida Marina Fischera
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Association between repetitive work and occupational cold exposure
Márcia Rosângela Buzannela;b and Antônio Renato Pereira Moroc;d
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Physical health and work environment among farriers
Löfqvist, E | Pinzke, S

An Epidemiological Profile of Cashiers holders Carpal Tunnel Syndrome in a Grocery Store Chain
Costa. R.; Barros, R.a; Campos, D.; Lima, D.; Barbosa, Geórgia
aSalgado de Oliveira University, Brazil

Area: Safety & Health
Economic incentives and the epidemiological indicators can contribute to the reduction of occupational hazards?
Maria Luiza C.Comper\textsuperscript{a,b} and Rosimeire S. Padula\textsuperscript{b}
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Assessment of quality of sleep and sleepiness in workers with rotating shifts
Rosimeire Simprini Padula\textsuperscript{a} and Graciela Junqueira de Abreu\textsuperscript{b}
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DEVELOPMENT AND VALIDATION OF A SAFETY CLIMATE SCALE FOR THE TRUCKING INDUSTRY
Yueng-hsiang Huang, Dov Zohar, Michelle Robertson, Jin Lee, Angela Garabet, Lauren Murphy

Ergonomic Initiatives at Inmetro: measuring occupational health and safety
Drucker, L\textsuperscript{1}, Amaral, M\textsuperscript{1} and Carvalheira, C\textsuperscript{1}
\textsuperscript{1}National Institute of Metrology, Quality and Technology; Inmetro; Brazil

Quality of diet of working college students
Bartira Gorgulho\textsuperscript{a}, Dirce Maria Lobo Marchioni\textsuperscript{a}, Adriana Balian da Conceição\textsuperscript{b}, Josiane Steluti\textsuperscript{a}, Marina Hurga Mussi\textsuperscript{b}, Roberta Nagai-Manelli\textsuperscript{b}, Liliane Reis Teixeira\textsuperscript{a}, Andréa Aparecida da Luz\textsuperscript{b}, Frida Marina Fischer\textsuperscript{b}
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Ergonomic risks on the operational activities of Firefighters from Rio de Janeiro
Flávia Curi Vitari\textsuperscript{a}, Hilmar Soares Francisco\textsuperscript{b}, Márcia Gomide da Silva Mello\textsuperscript{a},
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The ruler of inclusion in the process people learning with visual disability
Eliane Mafra\textsuperscript{a}, Eduardo Concepcion Batiz\textsuperscript{b} and Marcelo Macedo\textsuperscript{c}
\textsuperscript{a}Tupy Superior Institute, Brazil \textsuperscript{b}Tupy Superior Institute, Brazil \textsuperscript{c}Tupy Superior Institute, Brazil.

Teachers’ sick leave due to mental and behavioral disorders and return to work
Amanda Aparecida Silva \textsuperscript{a}, Frida Marina Fischer\textsuperscript{a}
\textsuperscript{a}Environmental Health Department, University of São Paulo, Brazil

Work of gravediggers and health
Fernando Pinheiro\textsuperscript{a}, Frida Marina Fischer\textsuperscript{a} and Claudio José Cobianchi\textsuperscript{b}
\textsuperscript{a}Department of Environmental Health, University of São Paulo, Brazil \textsuperscript{b}Department of Psychology, Cruzeiro do Sul University, Brazil

Cognitive representation of the comprehension test of safety warnings using multivariate methods
Cardoso-Junior, M.M.\textsuperscript{a} and Scarpel, R.A.\textsuperscript{b}
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Changes in human cervical and lumbar spine curves while bicycling with different handlebar heights
Yi-Lang Chen and Kuo-Chang He
Department of Industrial Engineering and Management, Mingchi University of Technology, Taiwan
Identification of the mental workload of public employees in the administrative sector at a public university
Andressa Aline Sontag; José Mohamud Vilagra; Helenara Salvati Bertolossi Moreira; Antônio Renato Pereira Moro; Roberto Moraes Cruz; Pedro Ferreira Reis; Isabele Maia Galvão

What is safety culture and risk-taking like at a large steel manufacturing company?
Hasse Nordlöf

Attention Deficit/Hyperactivity Disorder’s Effects on Individuals’ Scan Paths During a Simulated Drive
J.R. Michaelis, D.S. McConnell, and J. A. Smither

Comparison of five approaches to keeping power line maintainers’ hands warm during work in the cold
Hunt, S.; and Wells, R.

A Method to Access Safety and Resilience in Radiopharmaceuticals Production Process
Cláudio H. S. Grecco, Mario C. R. Vidal, Isaac J. A. L. Santos and Paulo V. R. Carvalho

Screening stress factors survey in na institute of advanced studies: health and safety integrated plans
C.S. Fonseca; C.N. Gomes; F.S.Barros

Administrative rationality and coping strategies in shift work
Renato Rocha Lieber, Rodrigo Neiva Kwieska and Maurício Cesar Delamaro

QUANTITATIVE NOISE ANALYSIS AT TWO MARBLE FINISHING PLANTS IN OLINDA, PERNAMBUCO, BRAZIL
MELO NETO, Rútilo P. de; KOHLMAN RABBANI, Emilia R.; BARKOKÉBAS JUNIOR, Béda; LAGO, Eliane M. G. and FREITAS, Jonathas B. de A.

APPLICATION OF PRELIMINARY RISK ANALYSIS AT MARBLE FINISHING PLANTS IN RECIFE’S METROPOLITAN AREA
MELO NETO, Rútilo P. de and KOHLMAN RABBANI, Emilia R.
Pulmonary Function and exercise capacity in metal industry workers
Mônica V. Gonçalves, Rosane F. Bernarde, Luciana D. Chiavegato, Rosimeire S. Padula a
aCity of São Paulo University, Brazil

Study of Activities of Postmen Motorcyclists: a Look at Motorcycle Accidents
Lícia Maria Barreto do Nascimento, Gracielle Aparecida Orlando Bortolotto
Sé Social Service for Industry of Bahia – SESI a Social Service for Industry of Paraná – SESI

Area: Slips, Trips and Falls

Fatigue and Postural Instability in the Railroad Industry
Chip Wade, Andres, R. Garner, J

Use-Related Risk Analysis for Medical Devices Based on Improved FMEA
Long Liu, Shuai Ma, Zhu Wang and Ping Li
Tongji University, China; Tongji University, China; Shanghai East Hospital, China

Area: Transport

The profile of cyclists in the city of Juiz de Fora
Ugo Castaño, José A. B. Castaño and Marcio P. S. Santos
Federal University of Juiz de Fora, Engineering Faculty, Brazil; Federal University of Rio de Janeiro, (COPPE/ UFRJ), Brazil

In-depth analysis of road crashes involving powered two-wheelers vehicles: typical human functional failures and conditions of their production
Pierre Van Elslande, Jean-Yves Fournier and Magali Jaffard
IFSTTAR-MA, France

Mobility and Accessibility in Historic Cities
Carvalho, Ana Carla; Paschoalin, Rachel Filgueiras and Castaño, José Alberto
Department of Transportation, Federal University of Juiz de Fora, Brazil

Distractions N’ Driving: Video game simulation educates young drivers on the dangers of texting while driving
Haneen Saqer, Ewart de Visser, Jonathan Strohl, and Raja Parasuraman
Psychology Department, George Mason University, United States

Determining skill transferability of action games as a method to reduce in-vehicle phone distractions
M. Rupp, D.S. McConnell, and J.A. Smither
Psychology Department, University of Central Florida, USA

The effects of iPod and Text-Messaging Use on Driver Distraction: A Bio-Behavioral Analysis
M. Mouloua; A. Ahern; A. Quevedo; D. Jaramillo; E. Rinalducci; J. Smither; P. Alberti; and C. Brill
Psychology Department, University of Central Florida, USA; Department of Technology and Human Sciences, University of Technology of Compiègne, France; Department of Psychology, Old Dominion University, USA; Optimal Electro Physiology, USA

Area: Visual Ergonomics
Use of color lights for the detection of anomalies in quality systems
Báez G\textsuperscript{a}, De la Vega E\textsuperscript{b}, Castro C\textsuperscript{c} and Elizarraras R\textsuperscript{d}
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