

**LEGEND**

- Activity Theories for Work Analysis and Design
- Process Control
- Forensic Human Factors
- Professional Affairs
- Organizational Design and Management
- Work With Computing Systems - WWCS
- Human Simulation and Virtual Environments
- Aerospace Human Factors and Ergonomics
- Affective Design
- Ergonomics in Design
- Ergonomics in Design for All
- Anthropometry
- Auditory and Vocal Ergonomics
- Musculoskeletal Disorders
- Psychophysiology in Ergonomics
- Visual Ergonomics
- Ergonomics in Advanced Imaging
- Building and Construction
- Ergonomics in Manufacturing
- Transport Ergonomics and Human Factors (TEHF)
- Aging
- Agriculture
- Ergonomics for Children and Educational Environments
- Gender and Work
- Healthcare Ergonomics
- Safety & Health
- Slips, Trips and Falls
- Human Factors and Sustainable Development
- History and Stories of Human Factors
- Poster Session
- STP standing committee meeting
- Ergonomics in the Future world

Palazzo Congressi						
	Auditorium	Michelangelo	Brunelleschi	Raffaello	Botticelli	Galileo
09:00 11:15		<p><b>WORKSHOP</b> CHRONICLE WORKSHOP IN INTERVENTION AND EVALUATION RESEARCH AND PRACTICE <b>Chair:</b> Kirsten Bendix Olsen (New Zealand) <b>Presenter:</b> Hans Jørgen Limborg (Denmark)</p>	<p><b>WORKSHOP</b> SEDENTARY WORK, WHAT'S THE EFFECTIVENESS OF WORKPLACE INTERVENTIONS? <b>Chair:</b> Hermans Veerle (Belgium)</p>	<p><b>WORKSHOP</b> PROTOTYPING HMI FOR PARTIALLY AND HIGHLY AUTOMATED VEHICLES: A BALANCED HUMAN SYSTEMS INTEGRATION APPROACH <b>Chair:</b> Marcel Baltzer (Germany)</p>	<p><b>WORKSHOP</b> ERGONOMICS AS A DESIGN DISCIPLINE: REDESIGNING A LOCAL CONTROL ROOM IN AN OIL INDUSTRY <b>Chair:</b> Daniel Braatz( Brazil)</p>	<p><b>WORKSHOP</b> ENHANCING YOUR PRESENTATION COMPETENCIES – A CHALLENGING WORKSHOP <b>Chair:</b> Koningsveld Ernst and Maggie Graf</p>
11:15 13:30		<p><b>WORKSHOP</b> MUSCULOSKELETAL DISORDERS AS A FATIGUE FAILURE PROCESS: A NEW FOUNDATION FOR RISK ASSESSMENT <b>Chair:</b> Mark Schall (USA) <b>Presenter:</b> Sean Gallagher (USA)</p>	<p><b>WORKSHOP</b> PATIENT JOURNEY MAPPING <b>Chair:</b> Armagan Albayrak (Netherlands)</p>		<p><b>WORKSHOP</b> WORKSPACE LAB: GETTING AROUND USER INVOLVEMENT AND PLANNING PARTICIPATORY DESIGN <b>Chair:</b> Carolina Conceicao (Brazil) <b>Presenter:</b> Ole Broberg (Denmark)</p>	
13:30 14:00	BREAK					
14:00 15:30		<p><b>Observations in actual work situations: Is this method still a key part of ergonomics practices?</b> <b>Chair:</b> Catherine Delgoulet (France)</p> <ul style="list-style-type: none"> <li>• Observation methods in the context of interactive research (Eklund Jörgen)</li> <li>• Observations: cross-eyes between an ergonomist and an occupational psychologist (Simonet Pascal)</li> <li>• Methodologies and observation techniques in the practical exercise of research-intervention in ergonomics. Impressions from Chile (Maureira Fabiola)</li> <li>• What place and role of observation in ergonomics approaches? (Boccaro Vincent)</li> </ul>	<p><b>Digital Healthcare</b> <b>Chair:</b> Nicole Jochems (Germany)</p> <ul style="list-style-type: none"> <li>• Requirements for a sociotechnical support system for the critically ill – a qualitative study on the needs and expectations of patients, relatives and health professionals (Balzer Katrin)</li> <li>• How should “BIRDY” look and feel? Designing a new interaction device for intensive care patients based on user preferences (Kopetz Jan)</li> <li>• What do you need to know to stay healthy? – A national study on elderlies’ health information seeking behavior (Theis Sabine)</li> <li>• User diversity in the motivation for wearable activity tracking: a predictor for usage intensity? (Franke Thomas)</li> <li>• Text Input in Hospital Settings using IoT Device Ensembles (Schrader Andreas)</li> </ul>	<p><b>Disentangling the physical activity health paradox</b> <b>Chair:</b> Pieter Coenen (Netherlands)</p> <ul style="list-style-type: none"> <li>• Do highly active workers die prematurely of cardiovascular disease? A systematic review on the association of occupational physical activity with cardio-vascular mortality (Coenen Pieter)</li> <li>• Objectively measured sitting and standing are differentially associated with nocturnal autonomic modulation in workers (Hallman David)</li> <li>• Occupational physical activity and adverse health: is there an effect modifying role for psychosocial job resources? (Clays Els)</li> <li>• Occupational physical activity and risk for cardiovascular disease - The Activity®work consortium (Korshøj Mette)</li> <li>• Physical activity in Danish adults: accelerometer-based 24-hour measurements of sitting, standing, walking, running and cycling in the Copenhagen City Heart Study (Johansson Melker S.)</li> <li>• Sex differences in the association between occupational standing and sedentary leisure time among blue-collar workers (Lund Rasmussen Charlotte)</li> <li>• Standing and musculoskeletal complaints in healthcare (Vandeneede Jean-Baptist)</li> <li>• The joint association of musculoskeletal pain and domains of physical activity with sleep problems: cross-sectional data from the DPhacto study, Denmark (Skarpsno Eivind)</li> <li>• Work postures and 22-year incidence of acute myocardial infarction (Krause Niklas)</li> </ul>	<p><b>Ergonomics in Virtual Reality</b> <b>Chair:</b> Takashi Kawai (Japan)</p> <ul style="list-style-type: none"> <li>• Trends for immersion technologies and contents (Verly Jacques G.)</li> <li>• Some novel applications of VR in the domain of health (Grogna David)</li> <li>• Virtual Reality in Education: How Schools Use VR in Classrooms (Shibata Takashi)</li> <li>• Will cybersickness prevent the breakthrough of virtual reality? (Häkkinen Jukka)</li> <li>• Ergonomic Guidance for Virtual Reality Content Creation (Kawai Takashi)</li> </ul>	<p><b>Objective assessment of physical work exposure: how to measure, analyse and interpret data</b> <b>Chair:</b> Kaj Bo Veiersted (Norway)</p> <ol style="list-style-type: none"> <li>1. Introduction to the symposium. Measurement of physical work exposure: why and how? (Dr. Med. Kaj Bo Veiersted, Stami, Norway)</li> <li>2. Methods to measure physical work exposure: focus on arm elevation and sedentary work (Prof. Mikael Forsman, Karolinska Institutet, Sweden)</li> <li>3. Examples of technical measurements in the evaluation of dynamic workstations (PhD-student Vera Schellewald, Britta Weber, Rolf Ellegast, Institut für Arbeitsschutz der DGUV, Germany)</li> <li>4. How to parameterize physical work exposure (postdoc Nidhi Gupta, NRCWE, Denmark)</li> <li>5. Interpretation of physical work exposure data for different study purposes (PhD Reinier Könemann, Marjolein Douwes, TNO, The Netherlands)</li> <li>6. Action levels for the prevention of musculoskeletal disorders (Ergonomist PhD Inger Arvidsson, Henrik Enqvist, Occupational Environmental Medicine, Sweden)</li> </ol>
15:30 15:45	BRAIN REFRESH					
15:45 17:30	<p><b>OPENING CEREMONY</b> <b>Opening addresses</b> Riccardo Tartaglia IEA2018 Chair and Sara Albolino IEA2018 Co-chair</p> <p><b>Welcome addresses and Opening remarks:</b> Yushi Fujita, IEA President Francesca Tosi, SIE President Sebastiano Bagnara, Chair of Scientific Committee</p> <p>Cecilia Del Re, <i>Chancellor City of Florence</i> Luigi Dei, <i>Rector of the University of Florence</i> Shengli Niu, <i>ILO Senior Specialist on Occupational Safety and Health</i> Kazutaka Kogi, <i>ICOH Past-President</i> Francesco Draicchio, <i>Italian Agency for Risk Prevention (INAIL)</i> Peter Lachman, <i>ISQUA CEO</i></p>					
17:30 18:30	<p><b>PLENARY 1</b> <b>Healthcare, Innovation in healthcare</b></p> <ul style="list-style-type: none"> <li>• Human-centered design for patient safety (Carayon Pascale)</li> </ul> <p><b>Comments by:</b> Westbrook Johanna</p> <ul style="list-style-type: none"> <li>• Walking the tightrope between creativity and productivity: Culture, resilience and complexity science (Braithwaite Jeffrey)</li> </ul> <p><b>Comments by:</b> Costa Giovanni</p>					
18:30 19:30	<p><b>MYSTERIUM®</b> a creative performance by Antonio Artese</p>					
19:30 20:30	WELCOME COCKTAIL					

Palazzo Affari								Limonaia	
Masaccio	Beato Angelico	Ghiberti	Perugino	Cimabue	Leonardo	Donatello	Giotto	Dante	
<b>09:00</b> <b>11:15</b> <b>11:15</b> <b>13:30</b>	<b>WORKSHOP</b> COLLABORATIVE ROBOTICS AND ERGONOMICS <b>Chair:</b> Maurice Pauline (France) <b>Presenter:</b> Lars Fritzsche (Germany)	<b>WORKSHOP</b> ASSESSING BIOMECHANICAL RISK WITH EAWS - LEARN HOW TO APPLY THE INTERNATIONAL STANDARD: ERGONOMIC ASSESSMENT WORKSHEET <b>Chair:</b> Peter Kuhlang (Austria) <b>Chair:</b> Manuela Ostermeier (Germany)	<b>WORKSHOP</b> DESIGN FOR END OF LIFE <b>Chair:</b> Marieke Sonneveld (Netherlands) <b>Presenter:</b> Marijke Melles (Netherlands)	<b>WORKSHOP</b> DESIGNING WORK SYSTEMS USING THE ACD3 (ACTIVITY-CENTERED DESIGN) FRAMEWORK <b>Chair:</b> Lars-Ola Bligård (Sweden) <b>Presenter:</b> Cecilia Berlin (Sweden)	<b>WORKSHOP</b> EYE TRACKING METHODOLOGY IN SCREEN-BASED USABILITY TESTING <b>Chair:</b> Lin Wang (USA)	<b>WORKSHOP</b> HOW TO PERFORM AN ERGONOMIC WORKPLACE ANALYSIS? <b>Chair:</b> Deepak Sharan (India)	<b>WORKSHOP</b> IDENTIFYING CRITICAL SUCCESS FACTORS OF ERGONOMICS PROGRAMS. NECESSARY CONDITION ANALYSIS (NCA) AND ITS APPLICATION TO PREVENTION AND MANAGEMENT OF WORK-RELATED MUSCULOSKELETAL DISORDERS <b>Chair:</b> Jean Mangharam (Australia) <b>Presenter:</b> Jan Dul (-)	<b>WORKSHOP</b> ERGOCHECK: A SIMPLE TOOL FOR PRELIMINARY ASSESSMENT OF BIOMECHANICAL OVERLOAD AND OTHER MAIN RISK FACTORS In application of the ISO TR 12295 <b>Chair:</b> Daniela Colombini (Italy)	
<b>13:30</b> <b>14:00</b>	BREAK								
<b>14:00</b> <b>15:30</b>	<b>Ergonomic Design and Development of Healthcare Devices</b> <b>Chair:</b> Eui Jung (Korea, South) <ul style="list-style-type: none"> <li>A cross-cultural user evaluation of the prototype extremity MRI (Jung Eui)</li> <li>An Ergonomic Evaluation of Convex Probe Designs Using Objective and Subjective Measures (You Heecheon)</li> <li>An Ergonomic Grip Design Process for Vaginal Probe Based on Analyses of Benchmarking, Hand Data, and Grip Posture (You Heecheon)</li> <li>An ergonomic user interface design for a new extremity MRI focusing on the patient chair (Jung Eui)</li> <li>Ergonomic design of a Tube Head Unit (THU) for Radiologic Technologists in Digital X-Ray Environment (Gil Guk-Ho)</li> </ul>	<b>Epidemiological and Mechanistic Advances Furthering the Understanding of Human Vibration Exposures</b> <b>Chair:</b> Bernard Martin (France) <ul style="list-style-type: none"> <li>Low back pain and whole-body vibration: a systematic review and meta-analysis (Dahlgren Gunilla)</li> <li>Hand-arm vibration and the risk of vascular and neurological diseases – a systematic review and meta-analysis (Nilsson Tohr)</li> <li>Whole-body vibration and back-pain related work absence among heavy equipment vehicle mining operators (Barrero Lope)</li> <li>Seating Interventions and the Influence of Whole Body Vibration Exposures on Health Outcomes in Truck Drivers (Kim Jay)</li> <li>A Perspective on the often neglected effects on sensory-motor Systems (Martin Bernard)</li> <li>MUSCULOSKELETAL disorders among occupational drivers caused by whole body vibration and awkward posture (Raffler Nastaran)</li> </ul>	<b>Working and designing within the « Labs »</b> <b>Chair:</b> Pascal Beguin (France) <ul style="list-style-type: none"> <li>Characterisation of fab labs activities: issues for ergonomics? (Caroly Sandrine)</li> <li>Design and implementation of High Reliability Organizing based performance metrics in the context of the EU H2020 research project TARGET, aiming at developing VR/AR training environment for security critical agents (Vidal Renaud)</li> <li>ErgoMotion-lab - Motion and ergonomics analysis in work activities (Castillo Martinez Juan)</li> <li>Fablabs as a new deal ? Towards which “technical democracy” and working promesses ? (Goyon Marie)</li> <li>Innovative Labs and co-design (Duarte Francisco)</li> <li>Organization of an experimental workshop workspace on the example of ITMO University FabLab (Korpan Lidia)</li> <li>Simulation, prototyping and experimentation - the potential of the maker labs to achieving a design-driven HFE (Braatz Daniel)</li> <li>The 3D model as a participative tool in an ergonomic intervention in the oil and gas industry (Garotti Luciano)</li> <li>Workspace Lab: Planning participatory design (Conceicao Carolina)</li> </ul>	<b>Special Session SELF: Innovative Design Project and mutations of work. Activity based approaches: conceptual and methodological issues</b> <b>Chair:</b> Valerie Pueyo (France) <ul style="list-style-type: none"> <li>Contributions of ergonomics to the development of prevention projects (Garrigou Alain)</li> <li>Digitization projects: what place for old expert users? New ergonomics challenges (Carballeda Gabriel)</li> <li>Turning activity into a lever for integrating humans into the workplace: a transversal approach for innovative projects (Thierry Morlet)</li> <li>Innovation at work, lessons learned from a design for use – design in use approach (Folcher Viviane)</li> <li>Supporting professional transitions in innovative projects (Pueyo Valerie)</li> </ul>		<b>Applying the systems concept of Humans, Technology and Organization (HTO) in practice</b> <b>Chair:</b> Martina Berglund (Sweden) <ul style="list-style-type: none"> <li>A rose by any other name - connotations of HTO (Barchéus Fredrik)</li> <li>Application of the HTO concept for a powered pallet truck (Eklund Jörgen)</li> <li>From Safety I to Safety II: applying an HTO-perspective on supervisory work within aviation (Berglund Martina)</li> <li>HTO at Vattenfall (Barchéus Fredrik)</li> <li>Integrating Humans, Technology and Organisation (HTO) into European Railway Safety Management System (Kecklund Lena)</li> <li>Student's views of the human-technology-organisation concept (Karlton Johan)</li> <li>The interaction between human-technology-organisation subsystems in meat cutting (Karlton Johan)</li> </ul>	<b>Minimum exposure criteria and assessment tools for the determination of 'work-relatedness' for musculoskeletal disorders</b> <b>Chair:</b> Paulina Hernandez (Chile) <ul style="list-style-type: none"> <li>Experience from Italy (Violante Francesco)</li> <li>Job seniority and time of daily exposure to biomechanical risk factors in claims of work-related upper limb musculoskeletal disorders in Chile (Martínez Marta)</li> <li>Minimum exposure criteria and assessment tools for the determination of 'work-related' for musculoskeletal disorders: experience from France (Roquelaure Yves)</li> <li>Occupational diseases of the musculoskeletal system – the situation in Germany (Ochsmann Elke)</li> <li>Systematic reviews as evidence-base for Dutch guidelines to assess musculoskeletal disorders as occupational disease: examples of shoulder, knee and low back disorders (Van Der Molen Henk)</li> <li>Work-Related Upper Extremity Musculoskeletal Disorders and Low back pain in Japan (Izumi Hiroyuki)</li> </ul>		<b>Preventing MSDs among health care workers</b> <b>Chair:</b> Acran Salmen-Navarro (Venezuela) <ul style="list-style-type: none"> <li>A macroergonomic approach to prevent WMSDs in health workers: creating ergonomic culture and sustainability (Acran Salmen-Navarro)</li> <li>Theoretical impact of integrated prevention intervention among health care workers: knowledge from the Pays de la Loire Study (Yves Roquelaure)</li> <li>Using non-obtrusive sensors for ergonomics exposure assessment for healthcare workers (Lora Cavuoto)</li> <li>Prevention of Musculoskeletal Disorders in Health Care Workers by using exoskeleton (Gustavo Rosa)</li> <li>Healthcare WMSD Cochrane Reviews: What is new and what is coming next? (Yohama Caraballo-Arias)</li> </ul>
<b>15:30</b> <b>16:30</b>	BRAIN REFRESH								
<b>15:45</b> <b>17:30</b> <b>17:30</b> <b>18:30</b> <b>18:30</b> <b>19:30</b> <b>19:30</b> <b>20:30</b>	WELCOME COCKTAIL								

		Palazzo Congressi					
		Auditorium	Michelangelo	Brunelleschi	Raffaello	Botticelli	Galileo
08:30 09:30	<p><b>PLENARY 2</b> <b>Agriculture, Sustainability</b></p> <ul style="list-style-type: none"> <li>• Agricultural work in the 21st century: new trends and challenges (Abraão Roberto Funes)</li> </ul> <p><b>Comments by:</b> Rosecrance John</p> <ul style="list-style-type: none"> <li>• Ergonomics tools for addressing global problems of the twenty-first century (Thatcher Andrew)</li> </ul> <p><b>Comments by:</b> Falzon Pierre</p>						
09:30 09:45							
09:45 11:15	<p><b>Human Factors and Sustainable Development_01/Building and Construction</b> <b>Chair:</b> Arto Reiman</p> <ul style="list-style-type: none"> <li>• Designing underground workspaces: A human factors approach (Roberts Adam)</li> <li>• Francophone Ergonomic Psychology Contributions to Understanding the Fire Evacuation Process (Filosi Giovanni)</li> <li>• How Green is Ergonomics in India? (Sharan Deepak)</li> <li>• IH (Walker Guy)</li> <li>• Safety training parks – Cooperative initiatives to improve future workforce safety skills and knowledge (Arto Reiman)</li> </ul>	<p><b>Ergonomics in Design 08 / Others</b> <b>Chair:</b> Nancy Black</p> <ul style="list-style-type: none"> <li>• Design of an auxiliary implement for classical guitar positioning from a postural analysis in musicians (Valenzuela Sergio)</li> <li>• Ergo-etnography... Measurement of indicators of well-being and comfort through ethnographic research techniques (Rojas R Claudia Isabel)</li> <li>• Ergonomic intervention of risk factors related to manual handling of loads in the burial tasks conducted in 5 Park Cemeteries in Chile (Diaz Messen Ana Maria)</li> <li>• Ergonomics and Standards (Adaramola Samson)</li> <li>• Ergonomics evaluation of workstations for mechanical engineering companies with particular attention to older workers (Pistolesi Mattia)</li> <li>• Evaluation of neck motion due to change in working velocity based on feature extraction with motion division (Hiranai Kazuki)</li> <li>• The role of prototyping in ergonomic practice and research to anticipate new products and services (Liem André)</li> </ul>	<p><b>Ergonomics in Design 03 / Building and Construction</b> <b>Chair:</b> Giuseppe Mincoletti</p> <ul style="list-style-type: none"> <li>• An Ergonomic assessment and design intervention on Mud-Transfer Activity in brick making industry, India (Kundu Amar)</li> <li>• Design intervention for Brick Kiln Industry based on Ergonomic Study (Kundu Amar)</li> <li>• Ergonomics of a children's day hospital (Villarocco Vilma)</li> <li>• Ergonomics, environmental conditions and cognitive aspects: field research with furniture assemblers in São Paulo, Brazil (Midoes Andre)</li> <li>• Standardization the "Dynamic sign" for comfort and safe society (Sakata Reiko)</li> </ul>	<p><b>Ergonomics for Children and Educational Environments_01/Education and Training</b> <b>Chair:</b> Oronzo Parlangei</p> <ul style="list-style-type: none"> <li>• Wayfinding and Communication design and as strategic systems to improve the well-being of children in pediatric hospitals (Giraldi Laura)</li> <li>• Children's creativity at school : learning to produce multimedia stories (Laura Anastasio)</li> <li>• Development of a bow motion analysis system using Kinect (Kawamori Yuji)</li> <li>• Differences in Visual Attention Performance between Action Game Playing and Non-Playing Children (Chen Wei Ru)</li> <li>• Digital discrimination: an ergonomic approach to emotional education for the prevention of cyberbullying (Parlangeli Oronzo)</li> <li>• Effect of Redesigning School Furniture Based on Students' Anthropometry in North-West Nigeria (Adeyemi Ademola James)</li> <li>• Ergonomics checkpoints for educational environments (Schulze Lawrence)</li> </ul>	<p><b>Slips, trips and falls 04 / Surfaces</b> <b>Chair:</b> Yamaguchi Takeshi</p> <ul style="list-style-type: none"> <li>• Identification of the critical period in slip initiation (Chang Wen Ruey)</li> <li>• Analysis of footwear testing on melting and cold ice surfaces using SATRA whole shoe tester and ice tray (Li Yue)</li> <li>• Applying Ergonomics to Bathing Safety: Including adoption of unorthodox practices for slip-resistant underfoot surfaces of bathtubs plus dedicated showers and provision of effective points of control (Pauls Jake)</li> <li>• Distribution of the local required coefficient of friction in the shoe–floor contact area during straight walking (Yamaguchi Takeshi)</li> <li>• Effect of Groove Depth and Width and Surface Coating of Floor Sheets on Coefficient of Friction under Oil Lubrication (Shibata Kei)</li> <li>• Effect of Slopes and Walking Surfaces on the Gait of Older Adults (Li Yue)</li> <li>• Improving Slip Resistance on Ice: Surface-textured Composite Materials for Slip-resistant Footwear (Bagheri Z. Shaghayegh)</li> </ul>	<p><b>Human Factors and Sustainable Development_03/Others</b> <b>Chair:</b> Patrick Waterson</p> <ul style="list-style-type: none"> <li>• Analysis of Ergonomics in the Reuse and Recycling of Solid Materials in Brazilian Cooperatives (da Silva Hebert Roberto)</li> <li>• Communicating climate change data: what is the right format to change people's behaviour? (Thatcher Andrew)</li> <li>• Developing a framework for the integration of sustainability indicators with ergonomic indicators (Sarbat Irem)</li> <li>• Eco-productivity: A Useful Guide for Sustainability Decision-making (Saravia-Pinilla Martha Helena)</li> <li>• Ergonomics and technologies in waste sorting: usage and appropriation in a recyclable waste collectors cooperative (Luvizoto Rodrigues de Souza Renato)</li> </ul>	
11:15 11:30	BRAIN REFRESH						
11:30 13:00	<p><b>Human Factors and Sustainable Development_02/Manufacturing, Healthcare, Education and Training</b> <b>Chair:</b> Thomas Franke</p> <ul style="list-style-type: none"> <li>• A development scenario of the work area "intralogistics" under the influence of Industry 4.0 technologies and its evaluation on the basis of a Delphi study (Klapper Jessica)</li> <li>• How to assess mental workload quick and easy at work: A method comparison (Sebastian Mach)</li> <li>• Maintaining Sustainable Level of Human Performance with Regard to Manifested Actual Availability (Molan Marija)</li> <li>• Proposal for an academic training program in ergonomics that meets the minimum requirements of the CREE and is financially sustainable (Christian Voiro)</li> </ul>	<p><b>Prospective Ergonomics: Ideating and designing future things - PART 1</b> <b>Chair:</b> Eric Brangier (France)</p> <ul style="list-style-type: none"> <li>• User Innovation, Lead users and Crowdsourcing for the Design of new Products and Services: Why, What and How? (Brangier Eric)</li> <li>• Evaluating users' creativity for service and needs identification in the field of emerging technologies: a comparison of two methods and two production conditions (Jean-Marie Burkhardt)</li> <li>• Studies on the Use of Variations of 'Brainstorming' in Creative Design Situations (Bonnardel Nathalie)</li> <li>• Do virtual environments unleash everyone's creative potential? (Bourgeois-Bougrine Samira)</li> <li>• Analyzing interaction dynamics at the fuzzy front-end of innovation projects: a tool for prospective ergonomics (Nelson Julien)</li> </ul>	<p><b>Ergonomics in Design 11 / Healthcare 01 and Users' involvement</b></p> <ul style="list-style-type: none"> <li>• A Human-Machine-System Model of Paramedic Work to Enhance the Inclusion of HFE within the Development of the Canadian Standard for Paramedic Ground Emergency Response Vehicles &amp; Equipment (Yazdani Amin)</li> <li>• Monitoring Preterm Neonates' Oxygen Saturation in the First 10 Minutes After Birth: A Novel Auditory Display (Zestic Jelena)</li> <li>• State of Research in the Design and Development of Emergency Response Vehicles and Equipment: A scoping review (Yazdani Amin)</li> <li>• Development of an education scheme for improving perioperative nurses' competence in ergonomics (Tamminen-Peter Leena)</li> <li>• Information for users as a key system element to delivering a better healthcare service (Galindo Estupian Zuli)</li> <li>• The burning perception in hospital receptions (Moreira Maciel Ana Maria)</li> <li>• The effectiveness of cardiac rehabilitation patient education through various media (Tseng Chi-Ping)</li> </ul>	<p><b>Ergonomics for Children and Educational Environments_02/Education and Training</b></p> <ul style="list-style-type: none"> <li>• Human Factors/Ergonomics Education and Certification: The Canadian Experience (Nancy Black)</li> <li>• Incidence of psychosocial factors at work. A study in technical school teachers (Concepción Nicolás)</li> <li>• Increasing attentiveness' student with Autism Spectrum Disorder (ASD), Attention Deficit Hyperactivity Disorder (ADHD), or Typical Development (TD) using cognitive ergonomics through video games (Senjaya Philipo)</li> <li>• Influence of Varying Backpack loading and Velotypes on the Spatio-Temporal parameters of Gait and Energy Cost of Ambulation among Primary School Children in Nigeria (Ekehukwu Echezona Nelson Dominic)</li> <li>• Longitudinal comparison of street crossing times at controlled and uncontrolled crossings among groups interfacing and not interfacing with hand-held devices (Schulze Lawrence)</li> </ul>	<p><b>Psychophysiology in Ergonomics 03- Healthcare/others</b></p> <ul style="list-style-type: none"> <li>• The effects of playing music during surgery on the performance of the surgical team: a systematic review on published studies (Rastipisheh Pegah)</li> <li>• The feasibility of using heart rate variability to measure stress in occupational settings: lessons from healthcare (Walter Scott)</li> <li>• Mediating role of loneliness and organizational conflict between work overload and turnover intention (Aytac Serpil)</li> <li>• Quantifying the impact of submersion in water and breathing type on cognitive resource utilization (Goodenough Luke)</li> <li>• Adverse Workstyle and its correlation with other ergonomic risk factors in Work Related Musculoskeletal Disorders (Sharan Deepak)</li> </ul>	<p><b>Human Factors and Sustainable Development_04/Others</b> <b>Chair:</b> Klaus Zink</p> <ul style="list-style-type: none"> <li>• Hydrogen Energy Technologies' acceptance review and perspective: toward a Prospective Ergonomics approach (Antoine Martin)</li> <li>• An Improved Design of Calico Grocery Eco Bag (Gutierrez Alma Maria Jennifer)</li> <li>• An in-depth analysis of workers' attitudes towards an underground facility in USA (Venugopal Vinita)</li> <li>• Democracy Does Cause Migration (Azad Kalam)</li> <li>• Urban solid waste and disaster risk: a case study in the city of natal, Brazil (Minor Costa Ataíde de Almeida Louizy)</li> </ul>	
13:00 13:15	BRAIN REFRESH						
13:15 14:45	<p><b>Applying human factors to medical device design</b> <b>Chair:</b> Peter Buckle (United Kingdom)</p> <ul style="list-style-type: none"> <li>• Designing medical devices for interruptive healthcare environments (Walne Simon)</li> <li>• Designing medical devices for unmet healthcare needs. An ergonomist's perspective (Buckle Peter)</li> <li>• Investigating user needs and integration of Remote Measuring Technologies into Clinical Practice (Lang Alexandra)</li> <li>• Providing Care to Children with Medical Complexity in the Home: Identifying Interactions between Medical Devices and the Physical Environment (Nadia Doutecheva)</li> <li>• The role of user trust in in-vitro diagnostics and medical device design (Borsci Simone)</li> </ul>	<p><b>Prospective Ergonomics: Ideating and designing future things - PART 2</b> <b>Chair:</b> ROBERT Jean-Marc (Canada)</p> <ul style="list-style-type: none"> <li>• An interview process to anticipate future needs. First analysis of an approach to explore future user experiences in the fields of business travel and tourism (Brangier Eric)</li> <li>• Exploring New Usages of Journey Maps: Introducing the Pedagogical and the Project Planning Journey Maps (Sperano Isabelle)</li> <li>• The Guided Imaginary Projection, a new methodology for prospective ergonomics (Alline Anaïs)</li> <li>• Using prospective ergonomics to identify opportunities from recent technological advances in AI: the case of a West African bank (Prevost Marie-Claude)</li> <li>• Extending Systems Design Tools to Facilitate Systemic Innovation in Prospective Ergonomics (Liem Andre)</li> </ul>	<p><b>The scales and dimensions of collective activity</b> <b>Chair:</b> Francoise Detienne (France)</p> <ul style="list-style-type: none"> <li>• A conceptual framework of collective activity in constructive ergonomics (Sandrine Caroly)</li> <li>• Digital Sketching for distant collaborative diagnosis in neurosurgery : an experimentation (Stéphane Safin)</li> <li>• Ideologically-embedded design (Francoise Detienne)</li> <li>• The effect of virtual environment and user-designer collaboration on the creative co-design process (Samira Bourgeois-Bougrine)</li> </ul>	<p><b>Ergonomics for Children and Educational Environments_03/Education and Training</b> <b>Chair:</b> Oronzo Parlangei</p> <ul style="list-style-type: none"> <li>• Pediatric Ergonomics: analysis of primary school children's well being using their designs (Salerno Silvana)</li> <li>• Playful learning for kids with Special Educational Needs (Terenzi Benedetta)</li> <li>• Serious Game as a creative tool to approach the history of design (Patti Isabella)</li> <li>• Ergonomics Teaching Concept at Technical Universities on the basis of Warsaw University of Technology (Kossobudzka-Górska Aneta)</li> <li>• The Differences Between Bowling as among adult members of society in Japan and the Bowling of Japanese Students (Okado Kohei)</li> </ul>	<p><b>Psychophysiology in Ergonomics 01- Transport</b> <b>Chair:</b> Luke Goodenough</p> <ul style="list-style-type: none"> <li>• Occupational Health, Work pattern and Psychological factors association with Accidents occurrence among the Non-Government (NG) city bus drivers of Kolkata, India (Dev Samrat)</li> <li>• A Holistic Approach to Operator System Comfort (Frohriep Susanne)</li> <li>• Maximum acceptable work time for the upper and lower limbs tasks (Velásquez Juan Carlos)</li> </ul>	<p><b>Ergonomics in Design 10 / Others</b> <b>Chair:</b> Giuseppe Mincoletti</p> <ul style="list-style-type: none"> <li>• Design and ergonomics in the medical sector: A methodology to evaluate the ergonomics performances for anesthesia workstations (Pistolesi Mattia)</li> <li>• Development of vibrational information interface based on a structured development process concept (Lutherdt Stefan)</li> <li>• Ergonomics and Design: neonatal transport incubator for premature or pathological newborn transportation (Iacono Ester)</li> <li>• Evaluation of usability of two therapeutic ultrasound equipment (Castro Luna Sandra Karina)</li> <li>• Individual differences in the contact pressure on the dorsal surface of the foot during gait (Takesue Shin)</li> <li>• Seating, Mobility and Health: Towards a Pro-mobility Community (Coman Robyn)</li> <li>• The emotion of light instrument for wellness (Spennato Alessandro)</li> </ul>	
14:45 15:00	BRAIN REFRESH						
15:00 16:00	<p><b>PLENARY 3</b> <b>Creativity, Musculoskeletal</b></p> <ul style="list-style-type: none"> <li>• The importance of chance and interactivity in creativity (Kirsh David)</li> </ul> <p><b>Comments by:</b> Paci Daló Roberto</p> <ul style="list-style-type: none"> <li>• Biomechanical overload and prevention of WMSDs: actual and future challenges (Occhipinti Enrico)</li> </ul> <p><b>Comments by:</b> Rosal Gustavo</p>						
16:00 17:00	<p><b>TRIENNIAL AND FELLOW AWARD SESSION</b> <b>Chair:</b> Yushi Fujita (Japan)</p> <p><b>Chair:</b> Eric Min-yang Wang (Taiwan)</p> <ol style="list-style-type: none"> <li>1. Distinguished Service Award (Fujita Yushi)</li> <li>2. Outstanding Educators Award (Min-yang Wang Eric)</li> <li>3. Promotion of Ergonomics in IDCs (Fujita Yushi)</li> <li>4. Ergonomics Development Award (Min-yang Wang Eric)</li> <li>5. Human Factors and Ergonomics Prize (Fujita Yushi)</li> <li>6. IEA/Elsevier John Wilson Award (Bazin Timo)</li> <li>7. Presidents award (Fujita Yushi)</li> <li>8. all the Fellow awards (12 fellow award winners) (Min-yang Wang Eric)</li> </ol>						
17:00 17:15	BRAIN REFRESH						
17:15 18:45	<p><b>Human Factors and Sustainable Development_05 / Others</b> <b>Chair:</b> Ivan Bolis</p> <ul style="list-style-type: none"> <li>• Design of a sustainable system for harvesting energy from humans, based on the piezoelectric effect in places of high mobilization of people (Saavedra-Robinson Luis A.)</li> <li>• Development of edema and its reduction by compression stockings during prolonged standing – a laboratory study (Robert Seibt)</li> <li>• Emotions as regulators of an intangible system: guidelines for designing a device for social sustainable improvement (Montagner Flavio)</li> <li>• Ergonomics, Sustainability and Corporate Social Responsibility: A review towards integrating pathways (Pinheiro Silva João Alexandre)</li> <li>• Networks and cities in a dynamic society (Searle Hayden)</li> <li>• Telecommuting in academia – associations with staff's health and well-being (Heiden Marina)</li> <li>• Traffic System Resilience: The Relationship with Driving Skills and Traffic Climate (Tumer Eco)</li> </ul>	<p><b>Ergonomics in Design 09 / Others</b> <b>Chair:</b> Mattia Pistolesi</p> <ul style="list-style-type: none"> <li>• A Year in the Life of an Ergonomics Consultancy (Lovegrove John)</li> <li>• Adapting Furniture to the Child – Ergonomics as a Main Tool in a Design Project (Salvador Cristina)</li> <li>• Cognitive Engineers' Multifaceted Role in Participatory Design Processes (Drivalvo Sotiria)</li> <li>• HSI implementation in complex system design process (Yaniv Yakir)</li> <li>• Human Factors and Ergonomics design principles and guidelines: helping designers to be more creative (Tiradentes Souto Virginia)</li> <li>• Integrated Product Gestalt Design Method for the Analysis and Definition of Interface Elements regarding Exterior and Interior (Daniel Holder)</li> </ul>	<p><b>Ergonomics in Design 17 / Others</b> <b>Chair:</b> Alessandra Rinaldi</p> <ul style="list-style-type: none"> <li>• An analysis of usability issues on fashion m-commerce websites' product page (Bozzi Faya Carolina Marianna)</li> <li>• Development of an interactive system that censes the air quality in parking lots, indicating situations of health risks (Rodea Chavez Alejandro)</li> <li>• Form of the space in between objects (Francisco Ginja Luis Miguel)</li> <li>• Similarity, Time and Creativity (Choi Byoung Hyun)</li> <li>• Keeping the Users in Mind: Investigations of Applicable Gaze Gesture Sets and Gaze Control Interaction Design Parameters (Jenke Marcus)</li> <li>• Industrial Design Modeling for Smart Jewelry (Choong Soo Li)</li> <li>• Human Factors &amp; Ergonomics contribution to the pre-conceptual design phase of new systems: the case of innovative small reactors (Coûx Stanislas)</li> </ul>	<p><b>Healthcare 15/ MSD</b> <b>Chair:</b> Karen Sogaard</p> <ul style="list-style-type: none"> <li>• Does use of patient transfer technique in nursing homes reduce mechanical work exposure and shoulder and/or low back pain? (Veiersted Kaj Bo)</li> <li>• Muscle activity and fatigue by various moving elements during standing work (Rucker Lisa)</li> <li>• The effect of a passive trunk exoskeleton on metabolic costs during lifting and walking (Baltrusch Saskia)</li> <li>• Work related musculoskeletal disorders (WRMSDs) among Algerian hospital staff members (Houda Kherbache)</li> <li>• Effective Musculoskeletal Disorders Prevention (Adaramola Samson)</li> </ul>	<p><b>Psychophysiology in Ergonomics 02- Miscellanea</b> <b>Chair:</b> Scott Walker</p> <ul style="list-style-type: none"> <li>• Dynamic adjustment of interpersonal distance in cooperative task (Kinoo Yosuke)</li> <li>• Evaluation of the Index of Cognitive Activity (ICA) as an Instrument to Measure Cognitive Workload under Differing Light Conditions (Lisa Fromm Rehaye)</li> <li>• Measuring experience and competence by means of electrodermal activity – The model of experience-dependent somatic activation (Heine Tobias)</li> <li>• Multiple Factors Mental Load Evaluation on Smartphone User Interface (Li Meng)</li> <li>• Psychophysiological Cueing &amp; The Vigilance Decrement Function (Hancock Gabriella)</li> <li>• Time Perception as a Measure of Psychological Flow: A Meta-Analysis (Kaplan Alexandra)</li> </ul>	<p><b>Standardisation in Ergonomics</b> <b>Chair:</b> Frener Peter (Germany)</p> <ul style="list-style-type: none"> <li>• New aspects and items for the standardization in the field of ergonomics (Prof Stowasser / Mr Hager / Mr Frener)</li> <li>• KAN – Best Practice: Platform for examples of ergonomic solutions (Corrado Mattiuzzo)</li> <li>• Anthropometry and ergonomics: Essential standards to design workstations and work situations (Mr Zana / Mr Bradmiller)</li> <li>• Standardization in ergonomics: For a consensus between design and prevention of MSDs around biomechanical principles (Mrs Ringelberg / Mr Zana)</li> <li>• Anthropometry and Biomechanics: actual work items and new methods (Yoshiyuki Kobayashi)</li> <li>• Safety of Machinery and ergonomics (Christoph Preußle)</li> <li>• CEN TR 16710-1: Feedback Method (Strambi Fabio)</li> <li>• Collaboration between employers and trade unions (Lupi)</li> </ul>	

Poster Session 1  
12:30 - 14:00

Passi Perduti  
Palazzo Congressi

Table with columns for time slots (08:30-09:30, 09:30-09:45, 11:15-11:30, 13:00-13:15, 13:15-13:30, 13:30-13:45, 14:45-15:00, 15:00-16:00, 16:00-17:00, 17:00-17:15, 17:15-18:45) and rows for locations (Palazzo Affari, Limonaia, Masaccio, Beato Angelico, Ghiberti, Perugia, Cimabue, Leonardo, Donatello, Giotto, Boccaccio, Dante). Each cell contains detailed abstracts of presentations, including titles, chairs, and key topics.

		Palazzo Congressi					
		Auditorium	Michelangelo	Brunelleschi	Raffaello	Botticelli	Galileo
08:30 09:30		<p><b>PLENARY 4</b>  <b>Aviation, Resilience</b>                      • Managing Humans: Understanding the Man - Man Interface (Kohli Samir)  <b>Comments by</b> Chialastri Antonio                      • Creativity in thinking about work: Can we imagine how work is done (Hollnagel Erik)  <b>Comments by</b> Chialastri Antonio</p>					
09:30 09:45		BRAIN REFRESH					
09:45 11:15		<p><b>KU SMITH AWARD SESSION</b>                      Presentation of the prizes (Smith Thomas)                      01 KU winner (TBD TBD)                      02 KU winner (TBD TBD)                      03 KU winner (TBD TBD)                      04 KU winner (TBD TBD)</p>	<p><b>Ergonomics/Design/Creativity in product innovation - Part 1</b>  <b>Chair:</b> Francesca Tosi (Italy)  <b>Opening session:</b> Gianni Perla                      • Applied Cognitive Work Analysis to inform the design of an interface of a novel neonatal resuscitation device (Lang Alexandra)                      • Innovative scenarios and products for sport outdoor: The challenge of design for citizens' wellness and health (Pistolesi Mattia)                      • Design for the lower limbs. A study for the development of an assistive robotic system for sensorimotor rehabilitation after stroke (Toso Francesca)                      • The development of an adaptive device for children with a hand impairment (Haring Erik)                      • The relation between chair (Shiraishi Mitsuaki)</p>	<p><b>50 Years of Applied Ergonomics - Part 1</b>  <b>Chair:</b> Patrick Dempsey (USA)  <b>Co-Chair:</b> Sarah Sharples (UK)                      • On the Role of Ergonomics at the Interface between Research and Practice (Dempsey Patrick)                      • Workload – a future paradigm for analysis and measurement (Sharples Sarah)                      • Beyond ConCA: Rethinking Causality and Construction Accidents (Harvey Eleanor)                      • The future of ergonomics: what are our goals in the larger context? (Hancock Peter)                      • Methodological and Conceptual Advances in Human-Centered Design: The Case of Pediatric Trauma Multi-Team Systems (Gurses Ayse)</p>	<p><b>Healthcare 14/ Occupational health</b>  <b>Chair:</b> Ruddy Facci                      • Designing therapeutic projects within multiprofessional health teams: integrating the dimension of work (Alonso Carolina)                      • Estimation Accuracy of Average Walking Speed by Acceleration Signals: Comparison among three different sensor locations (Kobayashi Yoshiyuki)                      • Evaluation of the remote control affordance of medicalized bed for people with mental disabilities getting older (PDO) (Chibaudel Quentin)                      • Occupational hazards: awareness and level of precautions among physiotherapists in selected health institutions in Lagos, Nigeria (Okafor Udoka Chris)                      • Relationship between Acceptance of Workforce Diversity and Mental Health Condition among Japanese Nurses (Yamada Yasuyuki)</p>	<p><b>Affective Design-01</b>                      • A Proposal of Model of Kawaii Feelings for Cosmetic Bottles (Laohakangvalvit Tipporn)                      • Employing behavioural economics to understand the impact of design on decision making (Christopoulos George)                      • How Designers can contribute to Education: Innovating educational systems through Design Thinking (Santos Joana)                      • Humans using or being? (Unger Unruh Gabriela)                      • The Study of Ergonomics Evaluation Method on Hardware and Software of Mobile Phones (Yu Yongweijian)</p>	<p><b>Human factor in aviation; co-adaptation between threats and solutions - PART 1</b>  <b>Chair:</b> Antonio Chialastri (Italy)  <b>Presenters:</b> Chialastri Antonio, Rea Alessandra, Bartoccini Francesca                      • Introduction: human factor and safety                      • Human performances and limitations in aviation                      • Teamwork: evolution of CRM</p>
11:15 11:30		BRAIN REFRESH					
11:30 13:00		<p><b>Symposium INAIL (Italian National Agency for Labour Risk Prevention) - PART 1</b>  <b>New challenges for back to work management and biomechanical risk assessment</b>  <b>Introduction:</b> Sergio Iavicoli and Francesco Draicchio                      • Development and validation of an integrated robotic platform for upper limb motor rehabilitation and visuomotor coordination in virtual reality scenarios including activities of daily living (S. Mazzoleni)                      • Modular motor control in trans-femoral amputees' gait (S. Ranaldi)                      • A bio-cooperative robotic system to ensure ergonomic posture during upper limb rehabilitation in occupational contexts (Scotto di Luzio Francesco)</p>	<p><b>Ergonomics/Design/Creativity in product innovation - Part 2</b>  <b>Chair:</b> Francesca Tosi (Italy)  <b>Opening session:</b> Imbesi Lorenzo                      • How does the seat cover influences the seat comfort evaluation? (Wegner Maximilian)                      • Cognitive ergonomics in architecture: creativity and ambience in children's healthcare spaces (Villaruoco Vilma)                      • Medical device design: What works best when it comes to integrating Human Factors and Ergonomics? (Vincent Chris)</p>	<p><b>50 Years of Applied Ergonomics - Part 2</b>  <b>Chair:</b> Sarah Sharples (UK)  <b>Co-chair:</b> Patrick Dempsey, (USA)                      • Belbin on Inspection: A 50-year Retrospective (Drury C. Gordon)                      • Situation Awareness in Future Autonomous Vehicles: Beware of the Unexpected (Endsley Mica)                      • New technologies in human factors and ergonomics research and practice as witnessed by Applied Ergonomics (Lin Jia-Hua)                      • Sociotechnical Principles for System Design Revisited (Waterson Patrick)                      • Human-Centered Design of Autonomous Systems (Boy Guy Andre)</p>	<p><b>Healthcare 09/ assessment tools and methods / Sports and Leisure</b>  <b>Chair:</b> Giorgio Cavassi and Giovanni Miranda                      • Assessing Symptoms of Excessive SNS Usage Based on User Behavior: Effective Factors Associated With Addiction Components (Intapong Ploypaiin)                      • Assessment of various Risk Factors causing Pressure Ulceration in people with Spinal Cord Injury – A Retrospective Study (Rawal Priyanka)                      • Comparative Analysis of Subjective Workload in Laparoscopy and Open Surgery using NASA-TLX (Miranda Giovanni)                      • Ergonomics systems mapping for professional responder inter-operability in Chemical, Biological, Radiological and Nuclear events (Hignett Sue)                      • Ranking key factors for activity assessment in surgical operating rooms (Janackovic Goran)                      • How Does the Peak Torque Produced during Eccentric Contraction Change regarding Velocity? (Khademi Sahar)                      • The impact of emotion regulation on mental health of Japanese university athletes (Kawata Yujiro)</p>	<p><b>Affective Design-02</b>                      • Emotional attributes of urban furniture (Buarque de Macedo Guimaraes Lia)                      • Exploring the relationship between materials and end-user personalities (Veelaert Lore)                      • Proposal of a methodological model for the design of a complex dynamic working environment in the forestry sector, to generate an emotionally light habitat (Alarcón Jimena)                      • Sedentary behaviour of office workers with long-term access to sit-stand workstations (Renaud Lidewij)                      • Token-based interaction: a promising alternative for the graphical user interface (Van Camp Marieke)</p>	<p><b>Human factor in aviation; co-adaptation between threats and solutions - PART 2</b>  <b>Chair:</b> Antonio Chialastri (Italy)  <b>Presenters:</b> Chialastri Antonio, Rea Alessandra, Bartoccini Francesca                      • Human-machine interaction                      • Ergonomics (physical, cognitive, social)                      • Automation: a threat or a resource?                      • Psychological resilience: pilot lifestyle</p>
13:00 13:15		BRAIN REFRESH					
13:15 14:45	LUNCH BREAK (12:00 - 14:30)	<p><b>Symposium INAIL (Italian National Agency for Labour Risk Prevention) - PART 2</b>  <b>New challenges for back to work management and biomechanical risk assessment</b>                      • Wearable sensors for biomechanical risk assessment (A. Ravanolo)                      • Biomechanical overload evaluation in manufacturing: a novel approach with sEMG and inertial motion capture integration (Monaco Maria Grazia Lourdes)                      • Conclusions</p>	<p><b>Ergonomics in Design 12 / Healthcare 02</b>  <b>Chair:</b> Mattia Pistolesi                      • Designing solutions for healthcare system problems - LUFT Incentive Spirometer: study of case (Xavier Macedo de Azevedo Flávia)                      • Enhancing the Usability of a Mobile App for Process Evaluation in a Participatory Ergonomics Healthcare Intervention (Chin Winnie)                      • Ergonomic design of interfaces for people with dementia (Ibenthal Elisabeth)                      • Ergonomics And Inclusive Design: The Habitat Project (Giuseppe Mincoletti)                      • Home environment and the elderly: Objects and products in relation to physical factors and their incidence in early dependence (Araya Leon Maria Jose)                      • Iteration in usability testing: Instructive interfaces of a dietary plan in diabetics (Diaz de Leon Zuloaga Carlos)</p>	<p><b>Ergonomics in Design 01 / Transport military</b>  <b>Chair:</b> Thomas Franke                      • A survey of user experience of two wheeler users in long-term interactions (Huang Fei-Hui)                      • Improving airplane boarding time by illumination guidance (Vink Peter)                      • Interior design adequacy of truck sleeper cabins in Brazil as to the use as temporary dwelling (Mello Ana Paula)                      • Relation of the density of occupation and the perception of concurrence in the sitm -metrolinea (Bernal Sofia)                      • Validity of using lab-based setup for evaluation of static factors in seating comfort of motorcycles (Velagapudi Sai Praveen)</p>	<p><b>Ergonomics in Design 14 / Healthcare</b>                      • Design for Empowerment, the Stigma-free Design Toolkit (Vaes Kristof)                      • Systemic body: ergonomics of the prevention (Victor Georgia)                      • Test Technology Research on Immersion Thermal Manikin (Wang Qian)                      • The Effects of Passive Ankle-Foot Orthotic Devices' Stiffness - Application and Limitation of 2D Inverted Pendulum Gait Model (Fu Qianyi)                      • Barriers and Facilitators for Implementing a Moving and Handling People Programme: An Exploratory Study (Lahti Hannele)                      • Ergonomic Intervention for Healthcare Workers and Patients: A Development of Patient Handling Device (Robielos Rex Aurelius)                      • Is observed resident handling associated with frequently measured low back pain? - A prospective workplace study among Danish eldercare workers in the DOSES cohort (Karstad Kristina)</p>	<p><b>HFE and green design of the built environment</b>  <b>Chair:</b> Andrew Thatcher (South Africa)  <b>Co-chair:</b> Erminia Attaianese                      • HFE in green buildings: protocols and applications (Attaianese Erminia)                      • HFE in protocols for green neighborhood and communities (Attaianese Erminia)                      • Do indoor plants improve performance outcomes?: using the Attention Restoration Theory (Adamson Kaylin)                      • Health and wellbeing in modern office layouts: the case of agile workspaces for green buildings (Laughton Keren-Amy)</p>	<p><b>Psychophysiology in Ergonomics</b>  <b>Chair:</b> Shinji Miyake (Japan)                      • Affective evaluation of a VR animation by physiological indexes calculated from ECGs (Ito Kodai)                      • Aging effect on physiological responses and task performance during mental task (Kuraoka Hiroyuki)                      • Development of chairs for noninvasive measurement of heartrate and respiration and its application (Ohsuga Mieko)                      • Development of intention inference algorithm based on EMG signals at judging directional of arrow cues (Takahashi Yuzo)                      • Evaluation of muscle load of hand and forearm during operation of cross-shaped switch by thumb (Ishibashi Motonori)                      • Relationships between autonomic nervous system indices derived from ECG signals (Kurosaka Chie)                      • Shared Ventilatory Drive as a Measure of Social Physiological Compliance during Team Decision making (Henning Robert)</p>
14:45 15:00		BRAIN REFRESH					
15:00 16:00		<p><b>PLENARY 5</b>  <b>Design, Interaction design</b>                      • Evidence-based design: The role of human factors in inspiring and informing the design process (Jenkins Daniel)  <b>Comment by</b> Hignett Sue                      • The More Things Change, The More They Stay The Same - Evolutions in Designing For Patients (Chapman Lorraine)  <b>Comments by</b> Perla Gianni</p>					
16:00 16:15		BRAIN REFRESH					
16:15 17:45		<p>ERGONOMICS IN THE FUTURE WORLD, NORTH ATLANTIC COUNTRIES  <b>Chairs:</b> Nancy Black, David Rempel, Waldemar Karwowski, Valery Rice</p>	<p>ERGONOMICS IN THE FUTURE WORLD, EASTERN EUROPE COUNTRIES  <b>Chairs:</b> Gyula Szabo</p>	<p>ERGONOMICS IN THE FUTURE WORLD, AFRICAN COUNTRIES  <b>Chair:</b> Andrew Todd</p>			
17:45 18:00		BRAIN REFRESH					
18:00 19:00		<p><b>Performance "MPE- mental protective equipment"</b>                      by Emma and Silvana Bagnato and Vladimiro Genchi (Gruppo ASA)</p>	TC Meeting - Activity Theories for Work Analysis and Design	TC Meeting - Work With Computing System WWCS	TC Meeting - Anthropometry	TC Meeting - Affective design	
19:00 20:00							
20:00 23:00		SOCIAL DINNER					



		Palazzo Affari									Limonaia
		Masaccio	Beato Angelico	Ghiberti	Perugino	Cimabue	Leonardo	Donatello	Giotto	Verrocchio	Dante
08:30 09:30											
09:30 09:45		BRAIN REFRESH									
09:45 11:15	<p><b>A partnership between citizens and healthcare organizations to assess and improve patient safety</b>  <b>Chair:</b> Giovanni Caracci (-)  <b>Chair:</b> Susan Sheridan (USA)</p> <ul style="list-style-type: none"> <li>The Italian program for hospital participatory assessment and improvement (Giovanni Caracci, Flavia Cardinali)</li> <li>Participatory assessment of patient safety: the hospital perspective (Ismaele Fusco)</li> <li>Participatory assessment of patient safety: the regional perspective (Emanuele Torri)</li> </ul> <p><b>How the results of the Participatory assessment program can contribute to patient safety monitoring and evaluation at national level</b> (Barbara Labela, Vanda Raho)</p>	<p><b>Is it all about posture? A closer look at neck and shoulder MSDs</b>  <b>Chair:</b> Harris-Adamson Carisa (USA)</p> <ul style="list-style-type: none"> <li>Biomechanical risk factors for musculoskeletal disorders of the neck and shoulder in a prospective cohort of production workers (Harris Carisa)</li> <li>Pain in the neck: A likely neuromuscular control issue: part I, the fatigue approach (Martin Bernard J.)</li> <li>Pain in the neck: A likely neuromuscular control issue: Part II, 2D trapezius contraction patterns (Martin Bernard J.)</li> <li>Scapular posture and shoulder muscle activity of a shoulder intensive job in commercial truck drivers (Lin Jia Hua)</li> <li>Occupational shoulder load in highly specialised job sectors and Intelligent Physical exercise Training as pain relieve (Sogaard Karen)</li> </ul>	<p><b>Activity Theories for Work Analysis and Design 01/ others /work and manufacturing</b>  <b>Chair:</b> Pascal Béguin</p> <ul style="list-style-type: none"> <li>Building a dialogical interface among different logics: a contribution of Ergonomic Work Analysis to the design process (Lipovaya Viktoriya)</li> <li>Ergonomic and psychosocial aspects of the maintenance activities of electrical energy transmission lines (Gemma Sandra)</li> <li>Making activity a lever to integrate Man at work: a transversal approach for innovative projects (Arnaud Tran Van)</li> <li>Maintenance of planning: the maintenance campaigns planning for Brazilian oil platforms (Béguin Pascal)</li> <li>The collective work in the Subsea Integrated Operations Centre: the formation of the ad hoc teams in the solution of unexpected situations (Maia Nora)</li> <li>Work situation in regard of a complex point of view related to activity and the perspective of long-term improvements (Sznelwar Laerte Idal)</li> </ul>	<p>Ergonomics challenges in the rapidly evolving digital world of children internationally  <b>Chair:</b> Leon Straker (Australia)</p> <ul style="list-style-type: none"> <li>How prevalent is mobile touch screen device use by children? (Leon Straker)</li> <li>What are the concerns of parents and educators about mobile touch screen device use by young children? (Leon Straker)</li> <li>What is the evidence that mobile touch screen device use is related to musculoskeletal risk in school children? (Paul Lee)</li> <li>What is the evidence that mobile touch screen device use is related to musculoskeletal and visual symptom risk in school children? (Leon Straker)</li> <li>What do teenagers and their parents think about mobile touch screen device use? (Siao Hui Toh)</li> <li>Can ergonomics interventions reduce musculoskeletal risk associated with mobile touch screen device use? (Karen Jacobs)</li> <li>What are the challenges faced by ergonomics in supporting wise use of mobile touch screen devices by children? (Grace Szeto)</li> </ul>	<p><b>Musculoskeletal Disorders 10 /AI/Physiological studies</b>  <b>Chair:</b> Yves Roquelaur</p> <ul style="list-style-type: none"> <li>Do workers with previous disabling neck-shoulder symptoms show higher trapezius muscle activity during computer use? (Huysmans Maaike)</li> <li>Evaluating the load integration method of cumulative loading using an eccentric muscle model (Huangfu Rong)</li> <li>Hand force and posture estimations of the distal upper extremity using surface electromyography and inertial measurement units (Carisa Harris-Adamson)</li> <li>Impacts of typing on different keyboard slopes on the deformation ratio of the median nerve (Loh Ping Yeap)</li> <li>Investigation of sensitivity of OWAS and DIN EN 1005 4 to assess workload of static working postures by surface electromyography (Hellig Tobias)</li> <li>Motor control with assistive force during isometric elbow flexion (Muraki Satoshi)</li> <li>Prolonged standing, lumbar spine movements and low back pain – a laboratory study (Wall Rudolf)</li> <li>Assessment of Muscular Strength Recovery for Backpacking Tasks (Chen Ying)</li> </ul>	<p><b>Organizational Design and Management 05/Transport/ Organizational Design for transport</b>  <b>Chair:</b> Rikke Seim</p> <ul style="list-style-type: none"> <li>An exploratory study of the issues of a professionalization to the industrial safety in a large French railway company (Marquet Audrey)</li> <li>Perspectives on Autonomy - Exploring Future Applications and Implications for Maritime Industries (Mallam Steven)</li> <li>Prediction of workload and staffing in train dispatching on track yards: application of the WASCAL-tool in the design process of a track yard (Zeilstra Melcher)</li> <li>The making of robust schedules: Strategies to dealing with uncertainties (FLAMMARD Laetitia)</li> <li>Voluntary safety leader at the sharp-end: From controlled safety to creative safety at an expressway maintenance site (Shigemori Masayoshi)</li> </ul>	<p><b>Ergonomics in Design for AII-04</b>  <b>Chair:</b> Sagawa Ken</p> <ul style="list-style-type: none"> <li>A step towards inclusive design: comfortable maximum height of a bus step for elderly Mexican population (González Torres Paula Raquel)</li> <li>Allocation of function revisited: the use of animals in productive processes and systems (O'Neill David)</li> <li>Analysis of methods for evaluation of assistive technologies focused on computational access of people with cerebral palsy (Javier Carolina)</li> <li>Ergonomic considerations for the inclusive communication of low vision people in academic spaces (Rojas R Claudia Isabel)</li> <li>Examining Compensations for Individual Differences in a Robotic Arm Interface (Parkhurst Eva)</li> <li>Welfare Technology and Housing Solutions: European research (Villani Teresa)</li> </ul>	<p><b>International perspectives on the application of a standardised approach for multi-dimensional time and motion studies using WOMBAT to study work efficiency and safety</b>  <b>Chair:</b> Johanna Westbrook (Australia)</p> <ul style="list-style-type: none"> <li>The application of the Work Observation Method by Activity Timing (WOMBAT) to measure health care work in Australia (Johanna I Westbrook)</li> <li>A multi-site study of the work of Italian hospital clinicians using WOMBAT (Tommaso Bellandi and Michela Tanzini)</li> <li>Nurse's work and use of working time in specialized care in Finland (Minna Taam-Ukonen)</li> <li>Applying WOMBAT to measure work in the criminal justice system in the United States (Priscilla Hunt and Meagan Cahill)</li> </ul>	<p><b>Musculoskeletal pain as an outcome - how can we get better insight into the time course of musculoskeletal pain?</b>  <b>Chair:</b> Charlotte Rasmussen (Denmark)</p> <ul style="list-style-type: none"> <li>Cumulative pain intensity scores in repeated measurements of musculoskeletal pain among dental students (Fredrik Hellström)</li> <li>Latent trajectories of neck-shoulder pain over 1 year in workers (David Hallman)</li> <li>The course of musculoskeletal pain among eldercare workers – a one-year study with monthly measurements (Charlotte Rasmussen)</li> </ul>	<p><b>Ergonomics in Design 16 / Sports, Entertainment and Leisure, Agriculture, Fashion, Education and training</b>  <b>Chair:</b> Jorgen Frohm</p> <ul style="list-style-type: none"> <li>Analysis of ankle joint motion with different types of sports climbing shoes (Yun Myung Hwan)</li> <li>Analysis of foot pressure and toe spring in different portions of bobsleigh tracks to develop bobsleigh shoes specialized for Koreans in 2018 Pyeongchang Winter Olympics (Yun Myung Hwan)</li> <li>Ergonomic Design of a Drumstick Plucker (Shinde Dhanashri)</li> <li>Fashion Design methodology tools in products' development for people with disabilities and reduced mobility (Nakayama Gabriela)</li> <li>How to develop a HMI for an agricultural tractor focusing on the handling of various implements (Kaufmann Andreas)</li> <li>Perfect Fit Goggles (Benelli Elisabetta)</li> <li>Range of Rest Posture of human lower limbs (Naddeo Alessandro)</li> </ul>	
11:15 11:30		BRAIN REFRESH									
11:30 13:00	<p><b>Healthcare 07/ resilience and complexity of care</b>  <b>Chair:</b> Pierre Falzon  <b>Chair:</b> Sara Albolino</p> <ul style="list-style-type: none"> <li>Applying Human Factors methods to explore 'Work as Imagined' and 'Work as Done' in the Emergency Department's response to Chemical, Biological, Radiological, and Nuclear events (Razak Saydia)</li> <li>Challenges of Disposition Decision Making for Pediatric Trauma Patients in the Emergency Department (Hose Bat-Zion)</li> <li>Constructing quality of care in neurology: anticipation strategies of a team of nurses (Canales Nicolas)</li> <li>Identifying Work System Barriers and Facilitators to Resiliency of Informal Caregivers of Patients with Dementia (Weiler Dustin)</li> <li>Safety I and Safety II for Suicide Prevention – Lessons from How Things Go Wrong and How Things Go Right in Community-based Mental Health Services (Jun Gyuchan Thomas)</li> <li>Understanding resilience and adaptation in the blood transfusion process using employee accounts of problem resolution (Watt Alison)</li> </ul>	<p><b>Ergonomics aspects of sit-stand workstation use in modern offices - Part 1</b>  <b>Chair:</b> Stephen Bao (USA)</p> <ul style="list-style-type: none"> <li>Cognitive and Psychosocial assessment of sit or stand workstations (Caple David)</li> <li>Comparison of sit-stand workstation use and break time activities on muscle fatigues of the shoulder and low back (Bao Stephen)</li> <li>Dynamic interventions to reduce muscle fatigue induced by prolonged standing work (Tapia Paola)</li> <li>How long can workers stand standing? Evidence from a systematic review (Straker Leon)</li> <li>Muscular and vascular issues associated with Stand-sit work-rest cycles (Garcia Maria-Gabriela)</li> <li>The effects of sit, stand, and a sit-stand paradigm on changes in trunk stiffness and low-back discomfort (Srinivasan Divya)</li> <li>The Impact of Sedentary Exposure Driven Changes to the Office Workstation on Low Back Pain (Callaghan Jack)</li> <li>Where do we stand on sitting and cognitive function? Testing alternatives to sitting (cycling, standing and standing-with-movement) (Baker Richelle)</li> </ul>	<p><b>Activity Theories for Work Analysis and Design 02/ Manufacturing, Building and construction, Others</b>  <b>Chair:</b> Francisco Duarte</p> <ul style="list-style-type: none"> <li>Co-conception spaces: new organizations to support participatory projects (Marins Camila)</li> <li>Conceptual principles as intermediary object: case of an industrial unit (Lima Francisco)</li> <li>Ergonomics and architectural programming: a possible articulation? (Ferreira Rocha Soares Daniela)</li> <li>Pilot study of the psychosocial risk factors in logistics companies of the automotive industry in Mexico (Diaz Muro Martha Estela)</li> <li>Regulations performed by workers and insufficiency of prescribed rules and in real situations (Rocha Raimi)</li> <li>The human transition to ergonomics of ubiquitous autonomous work (Castillo Martinez Juan)</li> <li>The real richness in the production of semi-jewels: the work in factories in the city of limeira- brazil (Gemma Sandra)</li> </ul>	<p><b>Revising the IEA Core Competencies for Professional Ergonomists</b>  <b>Chair:</b> Maggie Graf (Switzerland)  <b>Chair:</b> Frederick Tey (Singapore)</p> <ul style="list-style-type: none"> <li>The History of the IEA Core Competencies and their Purposes (Frederick Tey)</li> <li>The proposed new IEA Core Competencies (Maggie Graf)</li> <li>An example of assisting ergonomists to meet the Core Competencies where there is no full course of ergonomics in a country (Christian Voirol)</li> <li>Moderated discussion with participants (Maggie Graf)</li> </ul>	<p><b>Return on Investment for Human Factors / Ergonomics Interventions</b>  <b>Chair:</b> Blake McGowan (USA)</p> <p><b>Speaker/Title -</b></p> <ul style="list-style-type: none"> <li>Industry Consultant - Communicating the Value of Ergonomics to Business Stakeholders (Blake McGowan)</li> </ul> <p><b>- Part 1: Strategic Value of Ergonomics/Human Factors for Organizations (Jan Dul)</b></p> <p><b>- Part 2: Strategic Value of Ergonomics/Human Factors for Organizations (Patrick Neumann)</b></p> <ul style="list-style-type: none"> <li>Sustainability and Long-Term Return on Investment of Occupational Ergonomics (Jay Kapellusch)</li> <li>- Part 1: Argumentation and Financial aspects for Innovative Ergonomics Projects (Christian Dahman)</li> <li>- Part 2: Argumentation and Financial aspects for Innovative Ergonomics Projects (Nela Murauer)</li> <li>Cost-Benefit Analysis in Aerospace Manufacturing - Industry Practitioner - Production and Product Decision-Making Tools and Examples (Rush Green)</li> </ul> <p><b>Return on Investment of Implementing Ergonomics Interventions—Three Case Studies (Emile Tompa)</b></p> <ul style="list-style-type: none"> <li>Cost Utility Analysis of Bus Seat Intervention (Pete Johnson)</li> </ul>	<p><b>Organizational Design and Management 06/Healthcare/ Organizational design for healthcare</b>  <b>Chair:</b> Peter Hoonaker</p> <ul style="list-style-type: none"> <li>A taxonomy of interactions in socio-technical systems: A functional perspective (Abreu Saurin Tarcisio)</li> <li>Comparative Workflow Analysis of Antibiotic Prescribing in Nursing Homes (Ramly Edmond)</li> <li>Current Status of Exercise Habits and Job Satisfaction of Nurses in Japan (Iwaasa Takumi)</li> <li>Designing for collaboration in hospitals (Hasle Peter)</li> <li>Citizens' participation for a better healthcare (Piloni Rita)</li> <li>Effectiveness of onsite occupational health clinics in management of work related musculoskeletal disorders in 12000 information technology professionals (Jerrish A. Jose)</li> <li>The effect of support from supervisor and colleagues between occupational stress and mental health among Japanese sport facilities workers (Park Myunghae)</li> </ul>	<p><b>International standards on Accessibility and Design for AII: background and evolution</b>  <b>Chair:</b> Isabella Steffan (Italy)  <b>Chair:</b> Ken Sagawa (Japan)</p> <ul style="list-style-type: none"> <li>The use and usability of standards to assist ergonomists to meet the needs of real end users (Gill Whitney)</li> <li>Accessibility of products and services following a Design for All approach in standards (Elizabeth O' Ferral)</li> <li>Accessibility with Design for All approach in the built environment: prEN 17210 (Isabella Tiziana Steffan)</li> <li>Accessible-design standards for consumer products developed in ISO/TC 159/SC 4/WG 10 (Kenji Kurakata)</li> <li>Accessibility standards in Japan - Historical overview and the future (Nana Itoh and Ken Sagawa)</li> <li>US Access Board and medical equipment accessibility (Daryle Gardner-Bonneau)</li> </ul>	<p><b>Gender, Work and Health in Ergonomics: Transformative approaches to foster health and equity -Part A</b>  <b>Chair:</b> Jessica Riel (Canada)  <b>Co-Chair:</b> Rima R. Habib (Lebanon)</p> <ul style="list-style-type: none"> <li>A Relational Look at Gender: Social Network Analysis Contribution to Understand Collective Dimensions of Work Activity (LeFrançois Mélanie)</li> <li>Development of a reflexive learning method aimed at the prevention of occupational injuries of male and female students (Vignat Margaux)</li> <li>Female working refugee children: a triple burden of vulnerability (Habib rima)</li> <li>Impact of a schedule management system on work/family balancing: the case of bus drivers (Probst Isabelle)</li> <li>Teaching with gender perspective oriented to the training of women students of Interactive Design and Interactive Technologies (Lucila Mercado Colin)</li> </ul>	<p><b>Applied ergonomics: French companies actively engaged</b>  <b>Chair:</b> Jean Pierre Zana (France)</p> <ul style="list-style-type: none"> <li>Ergonomics comes to the Arkema Group as part of a continuous progress initiative (Grivel Raphaële)</li> <li>For an appropriating approach of ergonomics by corporate stakeholders (Zana Jean Pierre)</li> <li>Hutchinson Chemille, illustration of improvements made to health and safety of operators (Zana Jean Pierre)</li> <li>Hutchinson engaged for MSD's prevention since 2006 (Zana Jean Pierre)</li> <li>The referents in applied ergonomics: deploying ergonomics on ARKEMA sites (Grivel Raphaële)</li> <li>NF X35-702 French standard and future ISO Technical Report - A guideline of prevention for design sorting centers for household and similar dry recyclable waste from separate collections (Fromont Eric)</li> <li>Standardization and MSD prevention: Validation of the French standard, NF X35-702, for the design of sorting cabins (Alves de Oliveira Horacio)</li> <li>"Man" at the center of the company: A Flexi France ergonomics approach (Coue Pierre-Henri)</li> </ul>	<p><b>Shift in Healthcare: how digital technology is impacting patient engagement</b>  <b>Chair:</b> Chapman Lorraine (Canada)</p> <ul style="list-style-type: none"> <li>My Diabetes Coach: Increasing patient engagement through digital therapeutics (Lorraine Chapman)</li> <li>eHealth4All Prize: Enhancing patient empowerment and engagement with digital technology (Gian Franco Gensini)</li> <li>With You Project: Digital solutions and services focused on lifestyles of the elderly population (Michele Bellani)</li> <li>Persons and Data protection: towards the edge of eHealth and wellness smart tools (Stefano Dalmiani)</li> </ul>	
13:00 13:15		BRAIN REFRESH									
13:15 14:45	<p><b>Novel technologies in solid organ transplantation: all that glitters is not gold</b>  <b>Chair:</b> Paolo De Simone (Italy)  <b>Co-chair:</b> Sabina De Geest  <b>Co-chair:</b> Juri Ducci</p> <ul style="list-style-type: none"> <li>Applying a human-centred design process to increase the acceptance of an interactive health technology to support solid organ transplant patients' medication adherence and lifestyle: the PICASSO-Tx project (Vanhoof Jasper)</li> <li>How can technology assist in measuring and managing medication adherence? (Vrijens Bernard)</li> <li>Interventions and technologies to improve medication nonadherence in older transplant patients (Russell Cindy)</li> <li>The impact of ventricular assist device on patients' quality of life (Kugler Christiane)</li> </ul>	<p><b>Ergonomics aspects of sit-stand workstation use in modern offices – Part 2</b>  <b>Chair:</b> Stephen Bao (USA)</p> <ul style="list-style-type: none"> <li>A focus on dynamic work rather than sit or stand postures (Caple David)</li> <li>Cardiovascular Effects of Using Sit-Stand Workstations (Rempel David)</li> <li>Developing a multidimensional model to predict lower leg edema in standing work – preliminary results (Steinheil Benjamin)</li> <li>Different users adopt different workstation sets up and postures within and across standing and sitting configurations (Dennerlein Jack)</li> <li>Don't just sit there: A comparison between discomfort in sitting to three alternate work positions (under-desk cycling, standing and standing-with-movement) (Baker Richelle)</li> <li>Effects of training in the use of sit-stand workstations: The role of user control (Robertson Michelle)</li> <li>One year workplace interventions using software prompts to increase and sustain electric sit-stand desk utilization via objectively monitored desk utilization software (Benden Mark)</li> <li>Performing sedentary work in alternating (sit/stand) body postures - Is there an effect on perceived workload? Study findings from two RCTs (short-term &amp; mid-term) (Schwartz Bernhard)</li> </ul>	<p><b>Activity Theories for Work Analysis and Design 03/ Education and Training, Healthcare experiences</b>  <b>Chair:</b> Valerie Pueyo</p> <ul style="list-style-type: none"> <li>Contributions of Activity Ergonomics to design a virtual tool for sharing mental health care (Alonso Carolina)</li> <li>Education in ergonomics in Brazil – some experiences from de Universities of São Paulo, Rio de Janeiro and Minas Gerais (Sznelwar Laerte Idal)</li> <li>Ergonomics: Your Safety and Health at Work... a case of Nigerian Building Site (John Ugbobor)</li> <li>The influences of the Ergonomic Work Analysis on the activities of an Equiotherapy center (Dondelli Boaretto Marcelo)</li> <li>Training Ergonomists in Portugal: 32 years of experience (Carvalho José Domingos)</li> <li>Using circular causality networks: a prerequisite for developing a psychosocial risk prevention and management plan (Christian Voirol)</li> </ul>	<p><b>Analysis of repetitive movements and working postures in complex and variable working cycles: OGRA checklist and TACOs method</b>  <b>Chair:</b> Daniela Colombini (Italy)</p> <ul style="list-style-type: none"> <li>Multitask analysis of UL repetitive movements by OGRA method: criteria and tools (Occhipinti Enrico)</li> <li>Multitask analysis of whole body working postures by TACOs: criteria and tools (Tasso Marco)</li> <li>Application Study: Biomechanical Overload in Physiotherapists (Sharan Deepak)</li> <li>Repetitive manual tasks risk assessment among supermarket workers: Proposal of an analysis model (Alvarez-Casado Enrique)</li> <li>Application study: biomechanical overload in agriculture (Colombini Daniela)</li> </ul>	<p><b>Musculoskeletal Disorders 11 /AI/Pathophysiological studies</b>  <b>Chair:</b> Roif Ellegast</p> <ul style="list-style-type: none"> <li>Identification of Magnetically-disturbed Inertial Measurement Unit Data Segments (Chen Howard)</li> <li>Low Back Pain (LBP) and Physical Work Demands (Serranheira Florentino)</li> <li>Quantifying Vertebral Endplate Degeneration Using the Concavity Index (Salar Meneke)</li> <li>The effects of rotating shift work on knee pain and knee osteoarthritis among retired Chinese workers (Zhou Min)</li> <li>The Relationship between MRI Parameters and Spinal Compressive Loading (Fathallah Fadil)</li> <li>Trapezius Muscle Activity Variation during computer work performed by individuals with and without chronic neck/shoulder pain (Srinivasan Divya)</li> <li>Can musculoskeletal pain and psychosocial factors predict car crash involvement? (Ratzon Navah)</li> <li>The influence of physiological breaks and work organization on musculoskeletal pain index of slaughterhouse workers (Gonçalves Amaral Fernando)</li> </ul>	<p><b>Ergonomics simulation tools in design and organizational change projects</b>  <b>Chair:</b> Ole Broberg (Denmark)</p> <ul style="list-style-type: none"> <li>A constructive framework to analyze collaborative activity in simulation workshops (Barcellini Flore)</li> <li>A framework of participatory ergonomics simulation (Broberg Ole)</li> <li>Contributions of simulation for developing new activities: simultaneous approach of activity and space in the case of a fire department situation room design process (Heddad Nadia)</li> <li>Event cross simulation: a tool for structuring debates on work, enhancing collective learning and improving safety management (Casse Christelle)</li> <li>Managerial simulation: a tool for designing management organization (Van Belleghem Laurent)</li> <li>Simulating work systems: anticipation or development of experiences? An activity approach (Béguin Pascal)</li> <li>Simulation in diagnosing and redesigning knowledge transfer systems in the offshore oil industry (Conceicao Carolina)</li> <li>Virtual simulations for incorporating ergonomics into design projects: opportunities and limitations of different media and approaches (Braatz Daniel)</li> </ul>	<p><b>Ergonomics in Design for AII-05</b>  <b>Chair:</b> Steffan Isabella Tiziana</p> <ul style="list-style-type: none"> <li>Framing human abilities and capabilities, on Swedish standardisation with a design for all approach (Andersson Jonas E.)</li> <li>Ergonomics and emergency response: an inclusive approach - Emergency preparedness and response to people with disabilities: the Italian National Fire fighters Corps experience (Manselli Luca)</li> <li>Diversity, Inclusion and Safety in case of fire - New fire safety regulation, recently adopted in Italy, enhances d the inclusion of people with special needs (Manselli Luca)</li> <li>Accessibility and visual contrast: a proposal for a better evaluation of this physical quantity (Steffan Isabella)</li> <li>A tactile tag to identify color of clothes for people with visual disabilities (Sagawa Ken)</li> <li>Helping to shape ethical, legal and social implications of the digital revolution through participation (Mertens Alexander)</li> </ul>	<p><b>Gender, Work and Health in Ergonomics: Transformative approaches to foster health and equity - part B</b>  <b>Chair:</b> Jessica Riel (Canada)  <b>Co-Chair:</b> Rima R. Habib (Lebanon)</p> <ul style="list-style-type: none"> <li>Challenges in implementing inclusive participatory OHS management approaches sensitive to gender and diversity issues (Jessica Riel)</li> <li>Gendered indicators in OHS: a number to convince and transform public policies (Chappert Florence)</li> <li>Self-management process after a work accident: a gender analysis (Santos Marta)</li> <li>"Let's talk about Gender." Reflection on Theoretical and Methodological Contributions of Gender Studies to Work Activity Analysis (Riel Jessica)</li> <li>When being a woman represents a major risk for commuting accidents? (Salerno Silvana)</li> </ul>	<p><b>Healthcare 05/ Design</b>  <b>Chair:</b> Francesca Tosi</p> <ul style="list-style-type: none"> <li>An Ergonomic Investigation Of Medical Device Design In Aortic Valve Resection And Implantation (Brangier Eric)</li> <li>Design and evaluation of an enhanced auditory display for measuring a patient's oxygen saturation (Paterson Estrella)</li> <li>Design, understanding and evaluation of connected devices in the field of health: contribution of cognitive psychology and ergonomics (Chanaud Noémie)</li> <li>External visual support helps people with lower memory spans to plan individualized medical treatments (Smith-Spark James)</li> <li>Improving Hand Hygiene Compliance with Patient Zone Demarcation (Yin Shanqing)</li> <li>The co-design process of a decision support tool for airway management (Stuart Marshall)</li> <li>The role of ergonomics in the design of a IV set for Neonatal Intensive Care (Albayrak Armagan)</li> </ul>		
14:45 15:00		BRAIN REFRESH									
15:00 16:00		BRAIN REFRESH									
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16:15 17:45	<p><b>ERGONOMICS IN THE FUTURE WORLD, ASIAN COUNTRIES</b>  <b>Chairs:</b> Rosemary R. Seva, Frederik Tey, Sung H. Han, Takashi Torizuka</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, NORTH MEDITERRANEAN COUNTRIES - Chairs:</b> Teresa Cotrim, Tommaso Bellandi</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, LATIN COUNTRIES - Chairs:</b> Paulina Hernandez, Paulo Antonio Oliveira, Octavio Lopez</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, SOUTHERN CROSS-SPEAKING COUNTRIES - Chair:</b> Jennifer Long, Dave Moore (TBC)</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, EUROPEAN GERMAN SPEAKING COUNTRIES - Chair:</b> Klaus Bengler</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, FRENCH SPEAKING COUNTRIES - Chair:</b> Sylvain Leduc</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, ENGLISH SPEAKING EU AND ENGLISH SPEAKING COMMUNITIES MIDDLE EAST</b>  <b>Chairs:</b> Brendan Ryan, Erwin Spekle (TBC)</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, NORDIC AND BALTIC SEA COUNTRIES</b>  <b>Chairs:</b> Gudmundur.B.Thorsteinsson, Jane B.Ahlin</p>	<p><b>ERGONOMICS IN THE FUTURE WORLD, BRICS Countries</b>  <b>Chairs:</b> Jonathan Davy, Wei Zhang, Arnab Jana, Jose Orlando</p>		
17:45 18:00		BRAIN REFRESH									
18:00 19:00	TC Meetings - Healthcare Ergonomics	TC Meeting - Human Factors in Robotics	TC Meeting - Visual Ergonomics	TC Meeting - ODAM Organizational Design and Management	TC Meeting - MSD	TC Meeting - Agriculture	TC Meeting - Design for All	TC Meeting - Human Factors and Sustainable Development	TC Meeting - Gender and Work		
19:00 20:00		BRAIN REFRESH									
20:00 23:00		SOCIAL DINNER									

		Palazzo Congressi								
		Auditorium	Michelangelo	Brunelleschi	Raffaello	Botticelli	Galileo	Pollaiuolo	Filarete	Verrocchio
08:30 09:30	<p><b>PLENARY SESSION 6</b></p> <ul style="list-style-type: none"> <li>Ergonomics in defence: world trends with reference to the emerging countries (Defence) MAJUMDAR DHURJATI</li> <li>Comments by Andrew Todd</li> <li>Translating theory into action (Quality in Healthcare) (PETER LACHMAN)</li> <li>Comments by Stavros Prineas and Francesco Venneri</li> </ul>									
09:30 09:45										
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09:45 11:15	<p><b>IEA/Liberty Mutual Lectures - awards and lectures</b></p> <p>Presentation of the medals (Antonio Sacchi)</p> <p>01 winner of 2016 (TBD TBD)</p> <p>02 winner of 2017 (TBD TBD)</p> <p>03 winner of 2018 (TBD TBD)</p>	<p><b>Creativity in Design of Products, Systems and User Interfaces: Theory, Methods and Applications PART 1: THEORY</b></p> <p><b>Chair:</b> Halimahtun Mohd Khalid (Malaysia)</p> <p><b>Co-Chair:</b> Ralph Bruder (Germany)</p> <ul style="list-style-type: none"> <li>Creativity in Teaching Design: A balance between the academic and intuitive approach (DEJEAN Pierre-Henri)</li> <li>Integrating Creativity and Human Factors in the Design of Engineering Curriculums (SEVA Rosemary)</li> <li>Creativity in Design: Using Ideas from Cognitive Linguistics (TAKASHI Torizuka)</li> <li>Team Cognitive Walkthrough: Fusing Creativity and Effectiveness for a Novel Operation (LEE Kok Hoo)</li> <li>Creativity in Design of Human Machine Cooperation (BRUDER Ralph)</li> <li>Creativity in Measuring Trust in Human-Robot Interaction Using Interactive Dialogs (MOHD KHALID Halimahtun)</li> </ul>	<p><b>Ergonomics in Manufacturing_ 03</b></p> <ul style="list-style-type: none"> <li>Analysis, Design and Evaluation of a Cyber-Physical Production System (CPPS) in sensor manufacturing. A Case Study (Muehlefelder Manfred)</li> <li>Designing a user-centered approach to improve acceptance of innovations on the shopfloor using Rogers' "Diffusion of Innovations" (Murauer Nela)</li> <li>A human postures inertial tracking system for ergonomic assessments (Greco Alessandro)</li> <li>Estimation of carrying load during manual material handling (Trkov Mitja)</li> <li>Operational strategies of regulation in a carpentry sector: impacts on the health, safety and efficiency of the system (Rocha Raoni)</li> <li>A technology corner for operator training in manufacturing tasks (Gilotta Silvia)</li> <li>Industrial Ergonomics - Angel Wings At 3 Storers. How a collaborative in-house redesign of crane control layout improved upper limb position for overhead crane drivers (James Katrina)</li> <li>Physical and Virtual Assessment of Passive Exoskeletons (Cavatorta Maria Pia)</li> </ul>	<p><b>Healthcare 08/ simulation</b></p> <p><b>Chair:</b> Marijke Melles</p> <ul style="list-style-type: none"> <li>Assessing Facial, Thermal and Eye Discomfort, Acceptability and Perceived Protective Efficiency of PAPRs in Simulated Healthcare Work Settings (Zhuang Ziqing)</li> <li>Design and development of a medical device (Artificial Ganglio) for AIDS in the treatment of lymphedema (Hernandez Graciela Pilar)</li> <li>Simulating the Impact of Patient Acuity and Staffing-ratios on Nurse Workload and Care Quality (Qureshi Sadeem)</li> </ul>	<p><b>Aerospace Human Factors and Ergonomics_03/Aerospace Chair:</b> Guy André Broy</p> <ul style="list-style-type: none"> <li>Comparison of the HEART and CREAM techniques used for evaluation of human reliability in health care systems (Zamanian Zahra)</li> <li>Ergonomic Evaluation of Bion-M, Foton-M and Resurs-P Space Systems (Tkachenko Aleksandr)</li> <li>Redesign of an Airplane Coffee Machines Tests Bench. Ergonomics and Continuous Improvement methodologies. Better together than on their own? (Carmo João)</li> <li>Seat comfort evaluation using facial expression recognition (Dantas Alves Silva Claccia Flavia Renata)</li> </ul>	<p><b>Building and Construction_01</b></p> <p><b>Chair:</b> Ann Marie Dale</p> <ul style="list-style-type: none"> <li>Construction ergonomics: Construction Health and Safety Agents' (CHSAs') perceptions and practices (Smallwood John)</li> <li>Ergonomic analysis and determinants of posture among nigerian building construction workers using the path method (Ekechukwu Echezona Nelson Dominic)</li> <li>Evaluation of participatory strategies on the use of ergonomic measures and costs (Van der Molen Henk)</li> <li>Thermal comfort differences with air movement between students and outdoor blue-collar workers (Ji Yu)</li> </ul>				
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11:30 13:00	<p><b>Human Simulation and Virtual Environments_02/0thers Chair:</b> Sascha Wischniewski</p> <ul style="list-style-type: none"> <li>An Augmented Reality application to support deployed emergency teams (Nunes Isabel L.)</li> <li>Application of virtual reality to improve ergonomic factors in a control room of a chemical industry (ZARE Mohsen)</li> <li>Contact Pressure Analysis for Wearable Product Design (Lee Wonsup)</li> <li>Gathering 3D body surface scans and anthropometrical data as part of an epidemiological health study – method and results (Bonin Dominik)</li> <li>Modeling the range of motion and the degree of posture discomfort of the thumb joints (Miyata Natsuki)</li> <li>Natural Reach-and-Grasp With Only 6-DOF Hand Tracking (Wan Huagen)</li> </ul>	<p><b>Creativity in Design of Products, Systems and User Interfaces: Theory, Methods and Applications / PART 2: METHODS</b></p> <p><b>Chair:</b> Halimahtun Mohd Khalid (Malaysia)</p> <p><b>Co-Chair:</b> Pawan Vora (USA)</p> <ul style="list-style-type: none"> <li>Storytelling at School with a Robot Playmate (MARTI Patrícia)</li> <li>Creativity in Uncovering Customer Expertise for Affective Design (HELANDER Martin)</li> <li>Affective Design of Display System for Older adults and Home Care Workers in the Smart Home Environment (CHANG Fangyuan)</li> <li>Creativity in Web Design (VORA Pawan)</li> <li>Comparison of Questionnaire Based and User Model Based Usability Evaluation Methods (LI Meng)</li> </ul>	<p><b>Ergonomics in Manufacturing_04</b></p> <ul style="list-style-type: none"> <li>Psychosocial Aspects of New Technology Implementation (Jones Dennis)</li> <li>Real-time monitoring of the posture at the workplace using low cost sensors (Tarabini Marco)</li> <li>Thumb plastic guard effect on the insertion of push pins using psycho-physics methodology (Coronado Alejandro)</li> <li>What can an Ergonomist do to manage dangerous substances better? (Opila Szabolc)</li> <li>An Ergonomic Program in a Chemical Plant of Rhodia/Solvay in Brazil (Azevedo Valmir)</li> <li>Passive Upper Limb Exoskeletons: an Experimental Campaign with Workers (Carnazzo Chiara)</li> </ul>	<p><b>Healthcare 02/ safety and health</b></p> <p><b>Chair:</b> Daraiseh Nancy</p> <p><b>Chair:</b> Valerie Pueyo</p> <ul style="list-style-type: none"> <li>Aerobic capacity and energetic expenditure of primary caring women in assistance of children and young people with severe motor disability (Escobar Galindo Carlos Manuel)</li> <li>Effects of "blue-regulated" full spectrum LED lighting in clinician wellness and performance, and patient safety (Perez Octavio)</li> <li>Noise Exposure on Pediatric Psychiatry Units (Daraiseh Nancy)</li> <li>Prevention of onycholysis during cancer treatment using an active local cooling device: comparison of three different cooling strategies (De Boeck Muriel)</li> <li>Relationship between pressure and shear on skin oxygen tension in relation to discomfort and tissue damage (Hendriks Helleke)</li> </ul>	<p><b>Auditory and Vocal Ergonomics</b></p> <ul style="list-style-type: none"> <li>Designing MultiModal Interaction - A Basic Operations Approach (Karlsson MariAnne)</li> <li>Development of Fuzzy Data Envelopment Risk Analysis Applied to Auditory Ergonomics Risks Management of Contact Center Agents in the Philippines (Li Richard)</li> <li>Ergonomics and acoustics in music education (Giliberti Claudia)</li> <li>High end stereo design: The value analysis applied from the need for auditory comfort (Camillozzi Eduardo)</li> <li>Scalable Auditory Alarms (Waltrip Michael)</li> <li>Effects of self-selected music and the arousal level of music on user experience and performance in video games (Caroux Loïc)</li> <li>The Effect of Auditory-vocal Load on Drivers Performance (Hejazi Sara)</li> </ul>	<p><b>Building and Construction_02</b></p> <p><b>Chair:</b> Henk van der Molen</p> <ul style="list-style-type: none"> <li>Co-creativity in architectural practice: Impact of occupant involvement during self-construction experiences (Elsen Catherine)</li> <li>The particular view: the user's environmental perception in architectural design (Pinto Rodrigo)</li> <li>Developing a Methodology for Collecting Real-Time Data of Child and Parent Responses During the Ambulatory Surgical Environment (Wingler Deborah)</li> <li>A Review of Construction Industry Experiences with Health and Safety Equipment Interventions (Lowe Brian)</li> <li>Influence of select modes of load carriage on movement biomechanics of industrial workers (Shek Mohammed Rauf Iqbal)</li> <li>Excavator simulator training to improve safety, quality, economy and sustainable behaviour (Osvalder Anna-Lisa)</li> <li>The evaluation of the building's ergonomic quality in green building protocols (Oberti Ilaria)</li> </ul>	<p>Ergonomics in the Future world</p> <p>12:30 - 14:30</p>			
13:00 13:15										
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13:15 14:45	<p><b>Human Simulation and Virtual Environments_03/0thers Chair:</b> Dan Wegberg</p> <ul style="list-style-type: none"> <li>Negotiation and emotions: does empathy affect virtual bargaining? (Marchi Sofia)</li> <li>Development and testing of an IMU based arm tracker for sensorimotor tasks in Virtual Environments (Nathanael Dimitris)</li> <li>Grasping simulations using finite element digital human hand model (Harith Gregor)</li> <li>MakeHuman: A review of the modelling framework (Paul Gunther)</li> <li>Proposal of an Intuitive Interface Structure for Ergonomic Evaluation Software (Iriando Aitor)</li> <li>The evaluation of existing large scale retailers' furniture using DHM (Andreoni Giuseppe)</li> <li>Towards parametric modelling of skin cancer risk: Estimation of body surface area covered by protective clothing using base mesh modelling (Paul Gunther)</li> <li>Virtual simulation of human-robot collaboration workstations (Ruiz Castro Pamela)</li> </ul>	<p><b>Creativity in Design of Products, Systems and User Interfaces: Theory, Methods and Applications / PART 3: APPLICATIONS</b></p> <p><b>Chair:</b> Halimahtun Mohd Khalid (Malaysia)</p> <p><b>Co-Chair:</b> David Caple (Australia)</p> <ul style="list-style-type: none"> <li>Creativity and Innovation in Multicultural Cities Like Dubai (SAMMAN Shatha)</li> <li>Creativity in Design of Green Workplaces (CAPLE David)</li> <li>Ergonomic Intervention of Workplaces Using SEANES Ergonomic Checkpoints (MOHD KHALID Halimahtun)</li> <li>Creativity in Design of Safety Helmet for Oil Palm Workers (MOHD TAMRIN Shamsul Bahri)</li> <li>Creativity in Design of Shopping Cart (GUTIERREZ Alma Maria Jennifer)</li> <li>An Ergonomic Solution for Ventilating Backpack Design (LUXIMON Yan)</li> </ul>	<p><b>Digital communication</b></p> <p><b>Chair:</b> Martina Ziefle (Germany)</p> <ul style="list-style-type: none"> <li>Believability of News - Understanding Users Perceptions of Fake News (Calero Valdez Andrea)</li> <li>How user factors influence decision efficiency and effectiveness in production settings under risk (Brauner Philipp)</li> <li>Invisible Touch! — Design and Communication Guidelines for Interactive Digital Textiles based on Empirical User Acceptance Modelling (Brauner Philipp)</li> <li>Ring the Alarm - Identification and Evaluation of Users' Requirements for a V2X-Smartphone Application (Brell Teresa)</li> <li>The effect of prototype in the perception of apparent usability and affective quality of mobile phones (Seva Rosemary)</li> </ul>	<p><b>Healthcare 04/ ICT and Advanced Imaging</b></p> <p><b>Chair:</b> Tommaso Bellandi</p> <ul style="list-style-type: none"> <li>An action research to study and support the transition to a comprehensive Electronic Patient Record in acute care (Bellandi Tommaso)</li> <li>Conceptual design of ehealth services by, and for support of, home care staff (Erlingsdottir Gudbjörg)</li> <li>The evolution of ct and its user interface: a contextual and comparative analysis of the most used solutions (Giani Alessandra)</li> <li>The impact of telehealth video conferencing services on work systems in New Zealand: perceptions of expert stakeholders (Green Nicola)</li> <li>User-Interface and operators: evolution in Computed Tomography-CT- technology (Giani Alessandra)</li> </ul>	<p><b>Discussion on Whether or Not - and How - to Identify Missteps and Falls with an Ergonomically Descriptive Label Other than "Slips, Trips and Falls"</b></p> <p><b>Chair:</b> Jake Pauls (USA)</p> <ul style="list-style-type: none"> <li>This discussion-oriented session addresses semantic issues in missteps and falls research, ergonomics-based standards, forensics, and public health epidemiology (Pauls Jake)</li> </ul>	<p><b>On-site interventions for prevention and treatment of Work Related Musculoskeletal Disorders. What works and what doesn't?</b></p> <p><b>Chair:</b> Deepak Sharan (India)</p> <ul style="list-style-type: none"> <li>Introduction, process outline, role of onsite clinic in prevention and management of WRMSD (Jerrish A Jose)</li> <li>Assessment of the workstation and documentation of ergonomic, personal, psychosocial and environmental risk factors (Jerrish A Jose)</li> </ul> <p>On-site fitness programme to prevent WRMSD (Ushua Samuel Rajkumar)</p> <ul style="list-style-type: none"> <li>Diagnosis, treatment protocols and prognosis of WRMSD including criteria for return to work (Deepak Sharan)</li> <li>Return on investment of the onsite clinic (Deepak Sharan)</li> </ul>			<p>Three Buckets, Bow Ties and Resilience (S. Princess)</p>	
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15:00 16:00	<p><b>PLENARY 7</b></p> <p><b>Manufacturing, Fashion</b></p> <ul style="list-style-type: none"> <li>Welfare and Prevention (Striano Giorgio)</li> <li>Comments by: Colombini Daniela</li> <li>Preservation or Prediction: how ergonomics and human factors will design the museum of the future (Asproni Patrizia)</li> <li>Comments by: (TBD)</li> </ul>									
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16:15 17:45	<p><b>Innovation &amp; Design: a new approach for ergonomics in FCA - PART 1</b></p> <p><b>Welcome - chairs:</b> E. Pira Chairman and M.P. Cavatorta Co-Chairman</p> <ul style="list-style-type: none"> <li>The Ergo-UAS system and a new design approach: overview and validation - G. Caragano and R. Bonfiglioli</li> <li>"La fabbrica si misura" experimental campaign toward adjustable automotive workstations - M. Petyx, M. Micheletti Cremasco and M.P. Cavatorta</li> </ul>	<p><b>Ergonomics in Design 15 / Manufacturing</b></p> <ul style="list-style-type: none"> <li>Anthropometric and geometrical analysis to design an ergonomic prototype according to the process of Molding, Molding and Packing in Jaggery industry (Savendra-Robinson Luis A.)</li> <li>Application of Equid methodology and principles of macroergonomics in seat design (Cantele Cristiane)</li> <li>Exploring packaging lid design preferences among Mexican university students (Manzano Hernandez Paulina)</li> <li>Risk factors for musculoskeletal disorders and their relationship to factors leading to poor product quality (Neumann Patrick)</li> <li>Thinking with hands, acting with minds: embodied cognition and creative practice (Baber Chris)</li> <li>Towards an engineering process to design usable tangible Human-Machine Interfaces (Wächter Michael)</li> <li>Acceptability beyond usability: a manufacturing case study (Isardi Monica)</li> </ul>	<p><b>Ergonomics in Manufacturing_01/Automotive_Robotics</b></p> <ul style="list-style-type: none"> <li>Grip and pinch strength of the population of the northwest of Mexico (De La Vega-Bustillos Enrique)</li> <li>Affective states and strain in human-robot-interaction (Rosen Patricia Helen)</li> <li>Assistive Robots as third Hands in highly flexible Automotive Manufacturing Processes - A Usability Study on Human-Robot-Interfaces (Schleicher Tim)</li> <li>Human-Robot Collaboration in manual assembly - A collaborative Workplace (Petrucci Henning)</li> <li>Methods for the evaluation of human well-being and system performance of human-robot interaction - a literature review (Nelles Jochen)</li> </ul>	<p><b>Gender, Work and Health in Ergonomics: Evaluating ergonomic interventions as a function of sex/gender-sensitivity</b></p> <p><b>Chair:</b> Sandrine Caroly (France)</p> <p><b>Co-Chair:</b> Rima R. Habib (Lebanon)</p> <ul style="list-style-type: none"> <li>Why do we often forget gender in ergonomic interventions?</li> <li>Using a sex/gender lens when designing participatory research in occupational health. What can we learn from the GESTE&gt;pour le partage des connaissances team's past experiences? (Laberge Marie)</li> <li>Taking account of gender differences when designing interventions in occupational health? Lessons from a study of the "Healthy Enterprise" standard in Québec (Hélène Sultan-Talieb)</li> <li>Lever and obstacles to the integration of sex and gender considerations in four ergonomic interventions: results from a process evaluation (Albert Valerie)</li> <li>Context of the workplace and positioning of the ergonomist in the consideration of sex/gender in the intervention: a training experience (Wézina Nicole)</li> </ul>	<p><b>Transport Ergonomics and Human Factors (TEHF) 06 / Transport</b></p> <p><b>Chair:</b> Jürgen Frohm</p> <ul style="list-style-type: none"> <li>Revealing the Complexity of Road Transport with Accipams (McIlroy Rich)</li> <li>Smart Planning - towards defining the characteristics of a valid and balanced transport round (Govaere Virginia)</li> <li>Study on the analysis of traffic accidents using real traffic accident videos (Ou Yang-Kun)</li> <li>The effects of repetitive presentation of a specific video based hazards on young-inexperienced and experienced drivers' hazard awareness via implicit learning (Parnet Yisrael)</li> <li>Use of a H=&gt; controller on a half semi-trailer truck model to reduce vibrations and its implications on human factor (Arisy Dogan Onur)</li> <li>"Big Brother" or "Big Buddy"? Participatory Ergonomics to Support Safer Motorcycle Riding (Stedmon Alex)</li> </ul>	<p><b>Anthropometry 03- Agriculture and Others</b></p> <p><b>Chair:</b> Rajulu Sudhakar</p> <ul style="list-style-type: none"> <li>Anthropometric Dimensions of Agricultural Workers in North Eastern, Thailand (Sombatsarak Ekarat)</li> <li>Anthropometric implications of the global obesity epidemic (Bradtmiller Bruce)</li> <li>The Recent Anthropometry of Chinese Adult Population (Zhao Chaoyi)</li> </ul>	<p>TC Meeting - DHMS (formerly HSVE)</p> <p>TC Meeting - Building and construction</p>	<p>TC Meeting - Aging</p>		
17:45 18:00										
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18:00 19:30	<p><b>Innovation &amp; Design: a new approach for ergonomics in FCA - PART 2</b></p> <p><b>Chairs:</b> E. Pira Chairman and M.P. Cavatorta Co-Chairman</p> <ul style="list-style-type: none"> <li>Exoskeleton design for automotive industry - N. Vitello and C. Carnazzo</li> <li>Development of a risk assessment procedure for upper limbs based on combined use of EAWS 4th section and OCRA High Precision Checklist - E. Occhipinti and L. Ghibaudo</li> <li>Conclusions and Q&amp;A - E. Pira Chairman and M.P. Cavatorta Co-Chairman</li> </ul>	<p><b>Ergonomics in Design 02 / Automotive Aerospace</b></p> <p><b>Chair:</b> Richard Goossens</p> <ul style="list-style-type: none"> <li>A Usability Study of an Enterprise Resource Planning System: A Case Study on SAP B1 (Polanco Ronald)</li> <li>Digitalization of the Ergonomic Assessment Worksheet - user needs and requirements for digital evaluation functions (Michael Spitzchirn)</li> <li>Ergonomic Design and Evaluation of Innovative Main-Stand of Motorcycle (Muthiah Annachalam)</li> <li>Importance estimation of issues related to a new nuclear safety guide by its designers and users (Albertosa Julie)</li> <li>Influence of driving duration on static factors of seating comfort in motorcycles (Velagapudi Sai Praveen)</li> <li>Understanding human sensitivity towards change in posture related co-ordinates of a two wheeler (Rajan Gouthan)</li> </ul>	<p><b>Ergonomics in Manufacturing_02</b></p> <ul style="list-style-type: none"> <li>Assessment of Productivity and Ergonomic Conditions at the Production Floor: An Investigation into the Bangladesh Readymade Garments Factory (Hamja Abu)</li> <li>Digitization in Manufacturing - Employees, Do You Want to Work there? (Adam Caroline)</li> <li>From prescription to regulation: what workers' behavior analyses tell us about work models (Leonisa Lisa)</li> <li>Possibilities and challenges for proactive manufacturing ergonomics (Brolin Erik)</li> <li>Managing the risk of repetitive movements of the upper limbs in a company that develops high-end clothing for men (Nicola Schiavetti)</li> <li>Systematic approach to develop a flexible adaptive human-machine system (Czerwik Julia)</li> </ul>	<p><b>Visual Ergonomics_01/ Others</b></p> <p><b>Chair:</b> Hans Richter</p> <ul style="list-style-type: none"> <li>Attention and vigilance: A large scale workplace study (Roberts Adam)</li> <li>Evaluation of colour stereotype profile of the female population of Eastern India (Banerjee Monalisha)</li> <li>Influence of information acquisition strategies on foot proprioceptive and obstacles avoidance pattern among low-vision people (Uno Tadashi)</li> <li>The relation of Visual-Digital Literacy in user interaction with mobile devices (Torres Pereira Carrion Patricia)</li> <li>The typographic grid in the editorial project - an essential resource to the graphic consistency and perception (Roio Elisabete)</li> <li>The optimal parameter design for the image quality of 3D TVs (Lin Po-Hung)</li> </ul>	<p><b>Slips, trips and falls 01 / Physical impact</b></p> <p><b>Chair:</b> Chang Wen-Ruey</p> <ul style="list-style-type: none"> <li>A new approach for reference materials for slip resistance testing (Engels Marcel)</li> <li>Case law and stairway descent overstep slips (Hunter Rodney)</li> <li>Effect of fall prevention measures from scaffolds in Japan (Ondo Katsutoshi)</li> <li>Effect of heel area on utilized coefficient of friction during high-beeled walking (Park Sumin)</li> <li>Impact Analysis on Human Body of Falling Events in Human-Exoskeleton System (Qiu Jing)</li> <li>Pushing induced sliding perturbation affects postural responses to maintain balance in standing (Lee Yun-Ju)</li> <li>Seasonal effects of occupational falls on the same level in Japan (Ohnishi Akhito)</li> <li>Using OpenSim to Investigate the Effect of Active Muscles and Compliant Flooring on Head Injury Risk (Mortensen Jonathan)</li> </ul>	<p><b>Anthropometry 04- Automotive</b></p> <p><b>Chair:</b> Rajulu Sudhakar</p> <ul style="list-style-type: none"> <li>Anthropometric Factors in Seat Comfort Evaluation: Identification and Quantification of Body Dimensions affecting Seating Comfort (Heckler Benjamin)</li> <li>Convenient locations for the placement of push- and rotary-type controls in electric appliances (Toyota Wataru)</li> <li>How to assess sitting (dis)comfort? - An analysis of current measurement methods and scales (Utherr Annika)</li> <li>The Importance of Human Anthropometry in the interior development of autonomous driving vehicles (Parida Sibashes)</li> </ul>				
19:30 19:45										
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19:45 20:45	<p><b>Performance "MPE - mental protective equipment"</b></p> <p>by Emma and Silvana Bagnato and Vladimiro Genchi (Gruppo ASA)</p>							<p>TC Meeting - Slips, Trips and Falls</p>		





Main conference schedule table with columns for time slots (08:30-09:30, 09:30-09:45, 11:15-11:30, 13:00-13:15, 14:45-15:00, 16:00-16:15, 17:45-18:00, 19:30-19:45, 19:45-20:45) and rows for locations (Masaccio, Beato Angelico, Chiberti, Perugino, Cimabue, Leonardo, Donatello, Giotto, Dante). Topics include Healthcare, Transport Ergonomics, Aging, Organizational Design, Musculoskeletal Disorders, and Ergonomics in Military Context.

		Palazzo Congressi						
		Auditorium	Michelangelo	Brunelleschi	Raffaello	Botticelli	Galileo	Verrocchio
08:30 09:30	<p><b>PLENARY 8</b> <b>Robotics, Artificial Intelligence</b></p> <ul style="list-style-type: none"> <li>Virtual Environments and Robotics Technologies for the study of human performance (Bergamasco Massimo)</li> </ul> <p><b>Comments by:</b> Marti Patrizia</p> <ul style="list-style-type: none"> <li>The Human Use of Artificial Intelligence (Karwowski Waldemar)</li> </ul> <p><b>Comments by:</b> Boy Guy André</p>							
09:30 09:45	BRAIN REFRESH							
09:45 11:15	<p><b>Organizational Design and Management 03/Others/ work organization, environment and workers</b></p> <p><b>Chair:</b> Ek Åsa</p> <ul style="list-style-type: none"> <li>A System Perspective Approach to Planning Age Management Interventions (Jaldestad Ellen)</li> <li>Design Displacement Strategy (Filiari Jurji)</li> <li>Enablers and barriers for implementing crisis preparedness on local and regional levels in Sweden (Ek Åsa)</li> <li>Ergonomics in the Age of creative Knowledge Workers - Approaches, Challenges and what lies ahead (Prasch Lorenz)</li> <li>Fighting against organizational silence: a challenge for the companies, a challenge for ergonomics interventions (Dugué Bernard)</li> <li>Management of welfare systems (Babusci Daniele)</li> </ul>	<p><b>Designing tangible interfaces for human wellbeing</b></p> <p><b>Chair:</b> Maurizio Caon (Switzerland)</p> <ul style="list-style-type: none"> <li>Designing tangible interfaces for inclusive wellbeing (Rinaldi Alessandra)</li> <li>Experiencing sound through interactive jewelry and fashion accessories (Marti Patrizia)</li> <li>Gesturing on the Handlebar: a User-Elicitation Study for On-Bike Gestural Interaction (Caon Maurizio)</li> <li>My Pain Coach: a Mobile System with Tangible Interface for Pain Assessment (Caon Maurizio)</li> <li>The emotion of light instrument for wellness (Spennato Alessandro)</li> <li>Using Tangibles to Encourage Children's Reflection on Personal Health Data (Lechelt Zuzanna)</li> <li>Wearable devices and smart garments for stress management (Rinaldi Alessandra)</li> </ul>	<p><b>Ergonomics in Design 04 / Education and Training-01</b></p> <ul style="list-style-type: none"> <li>A methods framework and an intervention for planning and design processes (Rolfö Linda)</li> <li>Enhancing collaborative creativity: Towards a new user-centered design method, the dynamic persona method (Nicolas Pichot)</li> <li>Integrating ergonomics into product design through the UCD approach (Reinert Fabiola)</li> <li>Interdisciplinary Adaption and Extension of the Evaluation Method of the User Experience Questionnaire (Lohse Aline)</li> <li>The Effect of Character Design on Character Identification for Mobile Games (Li Elena Carolina)</li> </ul>	<p><b>Visual Ergonomics_04/ICT_ Robotics_ Education and training_Building and Construction</b></p> <p><b>Chair:</b> Magne Helland</p> <ul style="list-style-type: none"> <li>Effect of the HoloLens on visual performance in reality (Menozzi Marino)</li> <li>Evaluation and Design of Online Ordering and Delivery Apps Interface through Cognitive Approach (Maharani Aulia Karima)</li> <li>Factors Affecting Consumers' Attention when Scanning Menu of Quick Service Restaurants (Seva Rosemary)</li> <li>Flat design and gradient on mobile interfaces: application and usability evaluation on Apps (Batista de Barros Júnior Ednaldo)</li> <li>Local lighting control in open-plan offices - the influence of office lay-out (de Bakker Christel)</li> <li>Task related mental workloads reflected through visual attention data - A principal component analysis approach (Komandur Sashidharan)</li> </ul>	<p><b>Hermeneut Symposia on Human Factors in Cybersecurity</b></p> <p><b>Chair:</b> Katy Ho</p> <ul style="list-style-type: none"> <li>Identifying emergent cyber threats - lessons from radical economics for estimating a Benefit-Harm Index (MacAulay Brian)</li> <li>Me, the cyberthreat? The human factors as a potential to leverage upon (Pollini Alessandro)</li> <li>GDPR: Issues and opportunities for the security management in Healthcare (Bechini Marco)</li> <li>Human Factors for Security: case studies and challenges (Damiano Taurino)</li> </ul>	<p><b>Human Simulation and Virtual Environments_04/Automotive ICT_Aerospace</b></p> <p><b>Chair:</b> Gunther Paul</p> <ul style="list-style-type: none"> <li>Accommodation Assessments for Vehicle Occupants using Augmented Reality (Park B-K. Daniel)</li> <li>DHM based test procedure concept for proactive ergonomics assessments in the vehicle interior design process (Höberg Dan)</li> <li>Discomfort analysis in virtual driver tasks (Brolin Erik)</li> <li>Eye Tracking Behavior and Psychological Human Responses to Virtual and Actual Try-On Systems: A Comparison between Real Scene, Augmented Reality and Virtual Reality (Chen Yi-An)</li> <li>Modeling people wearing body armor and protective equipment: applications to vehicle design (Reed Matthew)</li> <li>Simulation techniques for the ergonomic performance evaluation of manual workplaces during preliminary draft phase (Greco Alessandro)</li> <li>Virtual reality simulation and ergonomics assessment in aviation maintainability (Bernard Fabien)</li> </ul>	<p><b>Coping with complexity and uncertainty: the role of the BRICSplus network in the globalisation of Human Factors and Ergonomics education and training</b></p> <p><b>Co Chair:</b> Jonathan Davy (South Africa)</p> <p><b>Presenter:</b> Andrew Todd (South Africa)</p> <ul style="list-style-type: none"> <li>The importance of IEA networks for the development of Ergonomics across the globe (Todd Andrew)</li> <li>An overview of Ergonomics education and training in Brazil (Barros Oliveira Paulo Antonio)</li> <li>Educational programs in Ergonomics: the status in Russia (Volosiuik Aleksandr)</li> <li>Challenges and Opportunities of Ergonomics Education for Developing Countries – China's Perspective (Zhang Wei)</li> <li>Human factors and Ergonomics education in India (Shek Mohammed Rauf Iqbal)</li> <li>Ergonomics education in South Africa: perspectives on the past, present and future (Davy Jonathan)</li> <li>Overview of the role of BRICSplus network JEP plan and status (Orlando Gomes José)</li> </ul>	
11:15 11:30	BRAIN REFRESH							
11:30 13:00		<p><b>Ergonomics in Design 07 / Others</b></p> <ul style="list-style-type: none"> <li>A Comparison Between Representative 3D Faces Based on Bi- and Multi-Variate Analysis (Goto Lye)</li> <li>Airline Cockpit: New Technology, Benefits and Drawbacks (Bazley Conne)</li> <li>Ergonomics in Design: the Human-centered design approach for developing innovative motor caravans systems (Pistolesi Mattia)</li> <li>Innovative scenarios and products for sport outdoor: the challenge of design for citizens' wellness and health (Tosi Francesca)</li> <li>Study on anisotropic haptic texture of buttons for user interfaces (Kobayashi Daiji)</li> <li>The layout evaluation of human-computer interface based on eye movement data (Zhou Qianxiang)</li> <li>Usability-Optimization of an Inertial Motion Capture System (Pomiersky Philipp)</li> </ul>	<p><b>Ergonomics in Design 05 / Education and Training-02</b></p> <p><b>Chair:</b> Richard Goossens</p> <ul style="list-style-type: none"> <li>All the real man's men (Sagona Silvia)</li> <li>Biomechanical evaluation and propulsion efficiency for hand-rim and leveraged wheelchair (Chiu Min Chi)</li> <li>Bridging gaps between ergonomics, design and construction : a pedagogical experiment (Stéphane Safin)</li> <li>Second cycle education program in virtual ergonomics and design (Brolin Anna)</li> <li>The Analysis Method of Visual Information Searching in the Human Computer Interactive Process of Intelligent Control System (Wei Linlin)</li> </ul>	<p><b>Visual Ergonomics_02/ Others</b></p> <p><b>Chair:</b> Marino Menozzi</p> <ul style="list-style-type: none"> <li>Effect of differences in vision of drivers on spatial recognition: Focused on subjective viewpoint and objective viewpoint (Teranishi Katsuhiko)</li> <li>Examining the effective rear view for drivers by the 3-D virtual experiment (Kanzaki Sora)</li> <li>Exploring flicker perception in the far periphery for warnings and notifications (Mathew Tintu)</li> <li>Human gaze-parameters as an indicator of mental workload (Volden Frode)</li> <li>Intra-rater reliability of the Visual Ergonomics Risk Assessment Method (VERAM) (Zetterberg Camilla)</li> <li>Keeping the Driver in the Loop. The 'Other' Ethics of Vehicle Automation (Shaw Emily)</li> <li>The design value of the relationship between personal and urban data (Stabellini Barbara)</li> </ul>	<p><b>Anthropometry 02- Manufacturing</b></p> <p><b>Chair:</b> Bruce Bradtmiller</p> <ul style="list-style-type: none"> <li>Evaluation of an adaptive assistance system to optimize physical stress in the assembly (Rönöck Katharina)</li> <li>Hand Dimensions and Grip Strength: A Comparison of Manual and Non-Manual Workers (Rostanzadeh Sajjad)</li> <li>Anthropometry for ergonomic design of workstations: the influence of age and geographical area on workers variability (Giustetto Ambra)</li> <li>La Fabbrica si Misura: an anthropometric study of workers at FCA Italian plants (Stefania Spada and Maria Pia Cavatorta)</li> </ul>	<p><b>Human Simulation and Virtual Environments_05/Healthcare</b></p> <p><b>Chair:</b> Dominik Bonin</p> <ul style="list-style-type: none"> <li>Avatar-based Human Posture Analysis and Workplace Design (Hyun Soomin)</li> <li>Desktops and Dining Tables: The usefulness of household features for personal health information management (Joliff Anna)</li> <li>Simulation and Analysis of Human Neck Load and Injury During Sustaining Overload in Flight (Bao Jiayi)</li> <li>Validation of Computational Fluid Dynamics Models for Evaluating Loose-Fitting Powered Air-Purifying Respirators (Zhuang Ziqing)</li> </ul>		
13:00 13:15	BRAIN REFRESH							
13:15 14:45	<p><b>Insights into Augmenting Technologies For Improving Human Performance</b></p> <p><b>Chair:</b> Thomas Alexander (Germany)</p> <ul style="list-style-type: none"> <li>The Connection between Cognitive Constructs and Augmentation Methodologies: Measurement and Application Principles linked to Training and Performance (Goldberg Benjamin)</li> <li>Virtual and Augmented Reality: Innovation or old wine in new bottles? (Alexander Thomas)</li> </ul>	<p><b>Optimising complex systems through a systems ergonomics approach</b></p> <p><b>Chair:</b> Paul Salmon (United Kingdom)</p> <p><b>Co-Chair:</b> Gemma Read (Australia)</p> <ul style="list-style-type: none"> <li>A systems Ergonomics approach to road safety: using STAMP, Cognitive Work Analysis, and Systems Dynamics to understand and prevent road trauma (Salmon Paul)</li> <li>A systems ergonomics approach to examining medication errors: using Accimap to describe the factors identified in investigation reports (Goode Natassia)</li> <li>A complex systems model of rail transport: Insights for improving safety management (Read Gemma)</li> <li>The application of systems ergonomics for optimising sports systems (Salmon Paul)</li> <li>The "Employment Barriers Questionnaire": Development and assessment of reliability and validity among people with disabilities (Huber Maya)</li> </ul>	<p><b>Ergonomics in Design 13 / Others</b></p> <p><b>Chairs:</b> Julien Nelson and Elena Elias</p> <ul style="list-style-type: none"> <li>Optimizing the design of a workspace using a participatory design method (Mateev Céline)</li> <li>Designing urban smart furniture for facilitating migrants' integration: the co-design workshop as tool for supporting an inclusive approach in products/services design (Rinaldi Alessandra)</li> <li>Ergonomics and design analysis: case of embroiderers from Pontal da Barra - Maceió - AL - Brazil (Donato de Almeida Cantalice Juliana)</li> <li>Ergonomics for impartiality and efficiency in the law-courts of ancient Athens (Nathanael Dimitris)</li> <li>Redesign of squared-profile wood sanding machine for Work-position and Productivity Improvement (Case study on Abu Production, Pleret, Bantul, Yogyakarta) (Kristanto Agung)</li> <li>The ergonomics experiment research on display interface of railway transportation dispatching (Liu Zhongqi)</li> </ul>	<p><b>Human-Machine Cooperation in Safety-Critical System</b></p> <p><b>Chair:</b> Tilo Mentler (Germany)</p> <ul style="list-style-type: none"> <li>Security and usability: an experimental evaluation of a graphical authentication system (Pascal Salembier)</li> <li>An application of task analysis to data security (tbd)</li> <li>A toolkit for studying attention and reaction times to smartglass messages in conditions of different perceptual load (Tilo Mentler)</li> <li>Acceptance for Technological Solutions Targeted at the Mastery of Terrorist Attacks: Experience versus Innovation (Sonja Kwee-Meier)</li> </ul>	<p><b>"24U": the "Pluriverse" Design</b></p> <p><b>Chair:</b> Rondi Angelo (Italy)</p> <ul style="list-style-type: none"> <li>The Culture of Innovation: Needs and Opportunities (Augusto Alessandro)</li> <li>The new designer: process facilitator and widespread project abilities promoter (Rondi Angelo)</li> <li>Innovation throughout negotiation (Codegoni Samuel)</li> <li>Digital Ergonomics Driver: The Ergonomic Approach in Umanía "AIDigital" (Bernardini Silvia)</li> </ul>	<p><b>Human Simulation and Virtual Environments_06/Transport_Military</b></p> <p><b>Chair:</b> Matthew Reed</p> <ul style="list-style-type: none"> <li>A unique Human Model to simulate various types of seat (dis)comfort (Borot Caroline)</li> <li>Does preferred seat pan inclination minimize shear force? (Xuguang Wang)</li> <li>Ecological method to assess visual field deficit while driving (Isabelle Milleville)</li> <li>Evaluation of repetitive lifting tasks performed in concrete block and brick factories in Pakistan (Maqsood Shahid)</li> </ul>		
14:45 15:00	BRAIN REFRESH							
15:00 16:30	<p><b>Symposium OECD/WHO/World bank "Quality Care: An imperative for achieving universal health coverage"</b></p> <p><b>Chair:</b> Chairs: Sepideh Bagheri Nejad and Riccardo Tartaglia</p> <ul style="list-style-type: none"> <li>Introductory presentation on the content of the report (Sepideh Bagheri Nejad)</li> <li>Building quality into the fabric of health system (Peter Lachman)</li> <li>Communication and community engagement (Sara Albolino)</li> <li>Systems engineering in health care and patient safety (Pascale Carayon)</li> <li>Applying human factors science in health care (José Orlando)Quality improvement in practice (Primiano Iannone)</li> </ul>	<p><b>Ergonomic Applications for Working Smart and Living Smart</b></p> <p><b>Chair:</b> Sheau-Farn Max Liang (Taiwan)</p> <ul style="list-style-type: none"> <li>Effects of tool use and working height on workers' physical workload in vertical cleaning tasks (Hsieh-Ching Chen, Wei-Chun Weng, Yung-Ping Liu)</li> <li>A novel method for accessing the 3D coordination measurement accuracy of depth camera (Pin-Ling Liu, Chien-Chi Chang, Chih-Yu Hsiao)</li> <li>Path Selection with Collision Risk Assessment for an Automated Guided Vehicle Guidance Control System in a Mixed Operation Environment (Pei-Fang Jennifer Tsai)</li> <li>Effect of environmental representation on presence in a manual manipulation task in virtual environment (Ying-Yin Rudy Huang)</li> <li>The effect of underclothes fabric on physical responses and subjective comfort while walking with different loads (Yuh-Chuan Shih, Chung-Wei Ou, Chin-Jung Chao)</li> <li>Perception of cognitive and physical demands in playing somatosensory video games (Sheau-Farn Max Liang and Bo-Cheng Chiu)</li> </ul>	<p><b>Ergonomics in Design 06 / ICT</b></p> <ul style="list-style-type: none"> <li>A sustainability and user-centered approach towards extending the life-cycle of mobile computers (Liem Andre)</li> <li>Birdie Birdie: an agile method workshop for a user centered design approach (Gronier Guillaume)</li> <li>Design methods for the projection of uses for vulnerable people (Elias Elena)</li> <li>Explanatory Modeling of Factors Influencing Adoption of Smartphone Shopping Application: A Modification of UTAUT2 (Bernardo Ezekiel)</li> <li>The Effects of Trust Assurance in Initial Consumer Trust (Bernardo Ezekiel)</li> <li>Usability and User Experience Assessment of SeriousMD: A Smartphone Application TeleHealth System (Bernardo Ezekiel)</li> <li>«Bear an e-hand»: Designing a wearable assistant for single-handed and small crew sail racing (Guibourdenche Julien)</li> </ul>	<p><b>Visual Ergonomics_03</b></p> <p><b>Chair:</b> Hillevi Hemphälä</p> <ul style="list-style-type: none"> <li>A comparison of mental and visual loads resulting from semi-automated and conventional forest harvesting: an experimental machine simulation study (Richter Hans)</li> <li>Effect of Intelligent LED Lighting System on Driver's Vision at Parking Entrance Tunnel (Liu Po-Hsiang)</li> <li>Effect of sleepiness on visual attention in nurses (Menozzi Marino)</li> <li>Visual Ergonomics in Control Rooms - An example of creativity in practice (Long Jennifer)</li> <li>Visual ergonomics in control room environments: a case study from a Swedish paper mill (Glimme Susanne)</li> </ul>	<p><b>Safety &amp; Health 08/ Others/ Safety analysis</b></p> <p><b>Chair:</b> Tim Bentley</p> <ul style="list-style-type: none"> <li>Effectiveness of an intervention establishing a health and safety committee for youth workers in Danish supermarkets (Karstad Kristina)</li> <li>The dialogue workshop, a method to analyze the coordination needs between heterogenous stakeholders for risk prevention in micro and small enterprises (MSEs) (Caroly Sandrine)</li> <li>Theoretical requirements and real benefit of cold protective clothing for order-pickers in deep cold (Gros Sandra)</li> <li>Juvenile workers in the retail sector - a new 'pocket money precariat' or an opportunity to educate the future workforce? (Limborg Hans Jørgen)</li> </ul>	<p><b>Ergonomics of built environment</b></p> <p><b>Chair:</b> Erminia Attianese (Italy)</p> <p><b>Chair:</b> Vilma Villarouco (-)</p> <ul style="list-style-type: none"> <li>Ergonomics analysis at Secondary Schools' classrooms, a qualitative research between Naples and Recife (Sarmiento Thaisa)</li> <li>Observation and Records of Spatial Behavior for Wayfinding in a Hospital Built Environment (Moreira Rangel Márcia)</li> <li>The ambient contribution to wayfinding in museums: tools for flow control, and paths for the valorisation and for a new use of museums (Oddi Angelo)</li> <li>An application of ergonomics in workstation design in office (Lima Costa Ana Paula)</li> <li>Research in environmental design and human factors/ergonomics: discussing methodological approaches (Rangel De Oliveira Gilberto)</li> <li>Environmental design and human performance. A literature review (Attianese Erminia)</li> <li>An integrated approach of ieq assessment: a case study (Boris Igor Palella)</li> <li>Human factor and energy efficiency in buildings (Serra Valentina)</li> </ul>		
16:30 18:30	<p><b>CLOSING SESSION "FUTURE OF ERGONOMICS"</b></p> <ul style="list-style-type: none"> <li>Ergonomics in the future world</li> <li>Future of the Work (Hiba Juan Carlos)</li> <li>Ergonomics in the future (Sharples Sarah)</li> <li>Closing Remarks (Fujita and Bagnara)</li> <li>Launch of IEA2021 (Noy Ian)</li> </ul>							

**Poster Session 4**  
12:30 - 14:00

**Passi Perduti**  
Palazzo Congressi

Palazzo Affari										Limonaia
Masaccio	Beato Angelico	Ghiberti	Perugino	Cimabue	Leonardo	Donatello	Giotto	Dante		
08:30 09:30										
09:30 09:45	BRAIN REFRESH									
09:45 11:15	<b>Healthcare 16/ patient safety</b> <b>Chair:</b> Melissa Baysari <b>Chair:</b> Ismaele Fusco <ul style="list-style-type: none"><li>How and why a care coordinator is needed for care coordination: analysis of the French PAERPA initiative (Romarc Marcilly)</li><li>Patient safety in pediatrics: ergonomic solutions for safer care of children (Dagliana Giulia)</li><li>Safety and quality of maternal and neonatal pathway: implementation of the WHO Safe Childbirth Checklist in the hospital of Torregalli (Florence) (Gargiani Noemi)</li><li>The importance of identifying patient and hospital characteristics that influence incidence of adverse events in acute hospitals (Paulo Sousa)</li><li>The Mid Staffordshire Disaster: A Case Study of Weak Signals in Healthcare (Carman Eva-Maria)</li></ul>	<b>Dose-response relations between physical exposures in the occupational life and low-back outcomes</b> <b>Chair:</b> Jäger Matthias (Germany) <ul style="list-style-type: none"><li>The relationship between MAPO* and acute low back pain* Movement and Assistance of Patients in hOSPitals (Natale Battew)</li><li>Dose-response relationship between the NIOSH lifting index and low back disorders (Ming-Lun Lu)</li><li>Methodology of the German Spine Studies: Data compilation of lifetime physical exposures and degenerative lumbar diseases in EPILIFT (Rolf Ellegast)</li><li>Results of the German Spine Studies: Associations between cumulative occupational lumbar load and lumbar disc-related diseases (Matthias Jäger)</li><li>Application of cumulative dose models indicating occupational back exposures in praxis (Ralf Schick)</li></ul>	<b>Slips, trips and falls 02 / in productive sectors</b> <b>Chair:</b> Li Yue <ul style="list-style-type: none"><li>Ergonomic Analysis of Labor applied to scaffolders in a shipyard in Brazil (Deola Borges Guilherme)</li><li>Increased hand-rung force is associated with increased ladder fall risk (Pliner Erika)</li><li>Problems in generating, extracting and using sensible slip resistance data (Bowman Richard)</li><li>Seated whole body vibration and egress performance in Agricultural machines: mitigating the risk of injury by performing recalibration movements (Bashiri Behazd)</li><li>Static postural stability on narrow platforms to prevent occupational stepladder falls (Sugama Atsushi)</li><li>Walkway Safety Evaluation and Hazards Investigation for Trips and Stumbles Prevention (Emily King)</li></ul>	<b>Transport Ergonomics and Human Factors (TEHF) 03 /transport / Vehicles safety, errors and accident</b> <b>Chair:</b> Avinoam Borowsky <ul style="list-style-type: none"><li>A systems analysis of the South African railway industry (Thatcher Andrew)</li><li>Application of Attribution Theory in crane incident analysis in a South African port (Mashapa Jessie)</li><li>Data Mining- Based Analysis of Hit-And-Run Crashes in Metropolitan City (Sivasankaran Sathish Kumar)</li><li>Impact of waiting times on risky driver behaviour at railway level crossings (Larue Gregoire)</li><li>It didn't click: A study of non-seat belt motor vehicle fatalities in New Zealand (Hirsch Lily)</li></ul>	<b>Ethical, ergonomic, technological and sustainability issues in Surgery</b> <b>Chair:</b> Marco Scatizzi (Italy) <b>Chair:</b> Francesco Venneri (Italy) <ul style="list-style-type: none"><li>Quality and Safety in Surgery (Miranda Giuseppe)</li><li>Cross Professional Communication in O.R. for Quality and Safety (Poletti P.)</li><li>Leadership in surgical teams (Moja E.)</li><li>Accountability during Operative Pathways (Montinari M.)</li></ul>	<b>Organizational Design and Management 11/0thers/ work organization, enviroment and workers</b> <ul style="list-style-type: none"><li>A proposal for a typology of lying at work at call centers (Eickhoff Maud)</li><li>Applications of Lean in stores (Eklund Jörgen)</li><li>Autonomy at work, can (too) much autonomy cause health complaints and sick leave? (Holte Kari Anne)</li><li>Challenges of Telework in Brazil: A Sociotechnical Analysis (De Godoy Ligia)</li><li>Chronicle workshop as a data collection method in evaluation of national work environment intervention (Olsen Kirsten Bendix)</li><li>Constructing public experiences in the field of workers health (Snelwar Laerte Ida)</li><li>Creativity at work, human development and organizational resilience (Sylvain Biquand)</li><li>Designing an organizational readiness survey for total worker HEALTH® workplace initiatives (Robertson Michelle)</li></ul>	<b>Musculoskeletal Disorders 05 /AI/Manual handling</b> <b>Chair:</b> Maggie Graf <ul style="list-style-type: none"><li>Assessment of Job Rotation Effects for Lifting Jobs Using Fatigue Failure Analysis (Gallagher Sean)</li><li>Biomechanical adaptations when lifting in confined spaces (Davis Kermit)</li><li>Can Borg's RPE-scale be used as an estimate of workday energy consumption in physically demanding work? (Forsman Mikael)</li><li>Can the Revised NIOSH Lifting Equation be improved by Incorporating Personal Characteristics? (Salar MENEKSE)</li><li>Push and Pull – Force measurement updates, interpretation of measurements and modes, peculiarities (curves, steps, etc.). Multi-task analysis (Cerbai Marco)</li><li>Validation of the Lifting Fatigue Failure Tool (LIFFT) (Gallagher Sean)</li></ul>	<b>Forensic Human Factors and Ergonomics: Theory and Reality</b> <b>Chair:</b> Michael Wogalter (USA) <ul style="list-style-type: none"><li>Context Validity as a Critical Element of Forensic Site Inspection (Ian Y. Noy)</li><li>Perception Reaction Time: A Brief Review of History and Ramifications for Forensic Practice (Ellie Francis)</li><li>Science in Court (Peter A. Hancock)</li></ul>	<b>Reducing alarm fatigue through ergonomic audible warning design</b> <b>Chair:</b> Carryl Baldwin <ul style="list-style-type: none"><li>Alarm fatigue and its relation to alarm signal design (Judy Reed Edworthy)</li><li>Reducing Alarm Annoyance - Utilizing the Amplitude Envelope (Joseph J Schlesinger)</li><li>From musical alarms to artful warnings: Future products that reshape medical alarms (Elif Ozcan)</li><li>Using Music to Enhance Signal Detection (Carryl Baldwin)</li></ul>	
11:15 11:30	BRAIN REFRESH									
11:30 13:00	<b>Central Vascular Lines Management: clinical and organizational aspects as a focus to prevent adverse events</b> <b>Chair:</b> Rosario Spina <b>Co-Chair:</b> Francesco Venneri <ul style="list-style-type: none"><li>Proactive vascular planning and good practice as a start for managerial strategy (Tomeo Francesco)</li><li>Vascular Lines management: nursing aspects (Daniela Accorgi)</li><li>Importance of a healthcare organization observatory and indicator analysis (Silvestri Vito)</li><li>A proactive approach to prevention catheter correlated infections: how a correct adherence to bundle may lower claims and litigations (Venneri Francesco)</li></ul>	<b>Musculoskeletal Disorders 12 /AI/Experiences in the school and miscellanea</b> <b>Chair:</b> Rafael Weissbrodt <ul style="list-style-type: none"><li>Determinants of work related musculoskeletal disorders among nigerian secondary school teachers (Ekechukwu Echezona Nelson Dominic)</li><li>Handheld Mobile Devices - how do we use them at work? A University case study (Alzhirani Abdullah)</li><li>Prevalence, correlates and predictors of musculoskeletal disorders among nigerian physiotherapy and architecture undergraduates (Ekechukwu Echezona Nelson Dominic)</li><li>School children's use of tablet computers and mobile phones is related to low back and visual symptoms (Straker Leon)</li><li>Workplace Ergonomic Factors among MIS Surgeons with Neck/ Shoulder and Visual Symptoms (ahusuny ameer)</li></ul>	<b>Slips, trips and falls 03 / in productive sectors</b> <b>Chair:</b> Bowman Richard <ul style="list-style-type: none"><li>Stop slip, trip and fall...use smarter technology (Green Janice)</li><li>The analysis of foot-eye coordination strategies among middle-aged and elderly adults - a case study of foot positioning (Wang Yi-Chen)</li><li>Slips, trips and falls in crowds (Victoria Filingeri)</li><li>Tread nosings and stair descent overstep slips (Hunter Rodney)</li><li>Tread nosings and stair descent trailing foot slips (Hunter Rodney)</li></ul>	<b>Transport Ergonomics and Human Factors (TEHF) 04 / Transport / Vehicles ergonomic design - 1</b> <b>Chair:</b> Brendan Ryan <ul style="list-style-type: none"><li>Air travel accessibility: interaction between different social actors (Barbosa Guarda de Souza Jerusa)</li><li>Autostereoscopic 3D displays for in-vehicle applications (Andre Dettmann)</li><li>From the perspective of a teenager: a better inclusive design service of the public transportation (Prado-Jimenez Stephanie Daphne)</li><li>Identifying the Effects of Visual Search by Railway Drivers on the Recognition of Extraordinary Events (Suzuki Daisuke)</li><li>In the right place at the right time? A view at latency and its implications for automotive Augmented Reality Head-Up Displays (Walter Matthias)</li></ul>	<b>Surgical Pathways</b> <b>Chair:</b> Marco Scatizzi (Italy) <b>Chair:</b> Francesco Venneri (Italy) <ul style="list-style-type: none"><li>Operating Room Management System (Pernazza Enrico)</li><li>Surgical Patient pathways : an engineering approach (Buccioli M.)</li></ul> <b>Discussion and proposals</b> <ul style="list-style-type: none"><li>Final remarks and take-home lessons (F. Venneri, M. Scatizzi)</li></ul>		<b>Musculoskeletal Disorders 08 /AI/Epidemiological studies</b> <b>Chair:</b> Leon Straker <ul style="list-style-type: none"><li>Biomechanical risk factors for surgically treated ulnar nerve entrapment in a cohort of Swedish male construction workers (Jackson Jennie)</li><li>Financial Impact and Causes of Chronic MSD cases in Malaysia based on SOGSO claims record (Md Zein Raemy)</li><li>The associations between mobile touch screen device use and musculoskeletal and visual symptoms: A cross-sectional study of adolescents (Toh Siao Hui)</li><li>Theoretical impact of workplace-based primary prevention of lumbar disc surgery in a French region: a pilot study (Fouquet Natacha)</li><li>Work ability and well-being among sick-listed women with long-term pain in neck/shoulders or back who return to work and who remain on sick leave: A prospective study (Rashid Mamunur)</li></ul>	<b>Forensics Human Factors: Human Behavior and Safety Issues</b> <b>Chair:</b> Michael Wogalter (USA) <ul style="list-style-type: none"><li>Identifying Missteps and Falls with Ergonomically Descriptive Terminology, Not as "Slips, Trips and Falls" (Jake Pauls)</li><li>A Forensic Analysis of a Parking Stop Trip and Fall Case (Michael S. Wogalter)</li><li>Personal Watercraft (PWC) Off-Throttle Steering Hazard: Remedy Failure and then Success (Edward Karnes)</li></ul>	<b>Ergo Africa: Birth and challenges:</b> Taoufik Khaifallah (President of the Tunisian Ergonomics Society) 10 min <ul style="list-style-type: none"><li>Ergonomics in Africa: "State of play, obstacles and challenges"</li><li>The case of South Africa: Jessica Hutchings (President of the South African Ergonomics Society) 15 min,</li><li>The case of Nigeria: Samson Adaramola (President of the Nigerian Ergonomics Society) 15 min,</li><li>The case of Tunisia: Sabeur Boughammoura (Vice President of the Tunisian Ergonomics Society) 15 min.</li><li>- Discussion: 20 min</li><li>- Axes of development of ergonomics in Africa:</li><li>International development: Andrew Todd: 15 min</li><li>Standards and education: Hakim Benchekroun: 15 min</li><li>Science, technology and practice: Andrew Thatche: 15 min.</li></ul>	
13:00 13:15	BRAIN REFRESH									
13:15 14:45	<b>Application of Virtual Reality Technologies in Rehabilitation: The current state of art</b> <b>Chair:</b> Deepak Sharan <ul style="list-style-type: none"><li>Definition and History of VR (Jose Jerrish)</li><li>VR – Principles, System and Application (JOSHUA SAMUEL)</li><li>VR Vs AR (Augmented Reality) (JOSHUA SAMUEL)</li><li>VR in Rehabilitation and Practice, case studies (Sharan Deepak)</li><li>VR – Advantages, Limitations and Adverse Effects (Sharan Deepak)</li></ul>	<b>New Methods in Upper Extremity Exposure Assessments</b> <b>Chair:</b> Jay Kapellusch (USA) <ul style="list-style-type: none"><li>A comparison between the Strain Index and the Revised Strain Index application in a group of Italian dairy parlor workers (Masci Federica)</li><li>A comparison of the ACGIH TLVs for Prevention of Work-related Musculoskeletal Disorders and Localized Fatigue (Rempel David)</li><li>Calculating the recommended cumulative recovery allowance across different tasks (Carisa Harris-Adamson)</li><li>Development and Validation of the Distal Upper Extremity Tool (DUET) (Gallagher Sean)</li><li>New Methods in Upper Extremity Exposure Assessment: What The Industrial Ergonomics Practitioner Needs (Fox Robert)</li><li>RAMP – A Comprehensive MSD Risk Management Tool (Rose Linda)</li><li>Smart work clothes give better health - through improved work technique, work organization and production technology (Eklund Jörgen)</li><li>Textile Integrated Sensors for Smart Assessments of Physical Exposure (In Special Session "New Methods in Upper Extremity Exposure Assessments") (Forsman Mikael)</li><li>The Revised Strain Index: an improved method for job design and assessment (Kapellusch Jay)</li><li>The Speed Calculated Hand Activity Level (HAL) Matches Observer Estimates Better than the Frequency Calculated HAL (Radwin Robert)</li></ul>	<b>Gender, Work and Health in Ergonomics: considering sex and gender (s/g) in methods - PART A</b> <b>Chair:</b> Sandrine Caroly (France) <b>Co-Chair:</b> Rima R. Habib (Lebanon) <ul style="list-style-type: none"><li>The importance of considering women in manual handling studies (Andre Plamondon)</li><li>Shoulder motor patterns, fatigability and biomechanical leeway: sex/gender differences (Cote Julie)</li><li>Photography diagnosis and risk exposure for women and men (Vignat Margaux)</li><li>Difference in risk perception and decision making of mountain guides: the role of observation and interview to question gender approach at work (Caroly Sandrine)</li><li>Revealing the weakening processes of part-time teachers' activity by cross-methods: a lever to improve their working conditions (Dominique Cau-Bareille)</li></ul>	<b>Transport Ergonomics and Human Factors (TEHF) 05 / Transport / Vehicles ergonomic design - 2</b> <b>Chair:</b> André Dettmann <ul style="list-style-type: none"><li>Analysis of discomfort during a 4-hour shift in quay crane operators objectively assessed through in-chair movements (Federico Arippa)</li><li>Classifying normal and suspicious behaviours when accessing public locations (Ryan Brendan)</li><li>Comparative Study of eCG Performance between Sensors in Seat Back and Seat Base (Balasubramanian Venkatesh)</li><li>Experimental study on the effects of air flow from cross-flow fans on thermal comfort in railway vehicles (Endoh Hiroharu)</li><li>How do people move to get into and out of an European COE truck? (Hebe Jennifer)</li></ul>	<b>Global Ergonomics Month: Experiences, stories and initiatives around the world</b> <b>Chair:</b> Michelle Robertson (USA), Nancy Black (Canada) <ul style="list-style-type: none"><li>Global Ergonomics Month Activities of the Association of Canadian Ergonomists (Nancy Black)</li><li>National Ergonomics Month Activities of the Human Factors and Ergonomics Society, United States (Karen Jacobs)</li><li>Global Ergonomics Month Activities of the Chartered Institute of Ergonomics &amp; Human Factors in the United Kingdom (Claire Dickinson)</li><li>Global Ergonomics Month Activities of the Human Factors and Ergonomics Society Singapore (Frederick Tey)</li><li>European Month of Ergonomics Activities of the Federation of European Ergonomics Societies(Gyula Szabó)</li><li>World Wide Month of Ergonomics: EU-OSHA initiatives and experiences (Maurizio Curtarelli)</li></ul>	<b>Ergonomics for Children and Educational Environments_05/ Education and Training</b> <ul style="list-style-type: none"><li>A Proposal For Education Resource For Diabetic Children (Cid Boechat)</li><li>The use of technology by adults with dyslexia to support memory (Smith-Spark James)</li><li>Trunkpack: New concept of backpack for transporting school material (Estrázulas Jansen)</li><li>"Ergonomics on the ground": a case study of service learning in ergonomics education (Davy Jonathan)</li><li>Prototyping a learning environment model, an application of Design Science Research and Ergonomics of Built Environment techniques (Sarmento Thaisa)</li></ul>	<b>Health and Welfare of Female Workforce: Ergonomics and Occupational Health Perspective</b> <b>Chair:</b> Urmi Salve (India) <ul style="list-style-type: none"><li>A study on Occupational well-being of Assam policewomen and scope of ergonomic design interventions (Bora Shilpi)</li><li>A study on women's attitudes and perceptions towards the cultural exposure and interaction in the context of Meghalaya Tourism (Deb Kumar Chakrabarti)</li><li>"Ergonomics on the ground": a case study of service learning in ergonomics education (Davy Jonathan)</li><li>Prototyping a learning environment model, an application of Design Science Research and Ergonomics of Built Environment techniques (Sarmento Thaisa)</li></ul>	<b>Case Study, Data and Theory in Forensic Human Factors and Ergonomics</b> <b>Chair:</b> Michael Wogalter (USA) <ul style="list-style-type: none"><li>Communication-Human Information Processing (C-HIP) Model in Forensic Warning Analysis (Wogalter Michael)</li><li>Allocation of Blame for Fire Damage that Originated in a Cigarette Receptacle Constructed from Flammable HDPE Plastic (Kalsher Michael)</li><li>How Motorists Understand or Misunderstand Safety Measures (Leonard S. David)</li></ul>	<b>The Practical Use of Anthropometric Databases</b> <b>Chair:</b> Daisy Veitch and Kathleen Robinette (Australia) <ul style="list-style-type: none"><li>3D body modelling and applications (Sandra Alemany)</li><li>Relationship between musculoskeletal disorders and anthropometric indices among bus drivers in Zahedan city (Elahe Dortaj)</li><li>SOOMA - software for acquisition and storage of anthropometric data automatically extracted from 3D digital human models (Flavia Pastura)</li><li>The Definition and Generation of Body Measurements: The ISO 8559 series of standards (Youngsuk Lee)</li><li>Use of Anthropometry and Fit Databases to Improve the Bottom-Line (Kathleen Robinette)</li></ul>	
14:45 15:00	BRAIN REFRESH									
15:00 16:30	<b>Getting ahead of the curve: can we intervene successfully to influence the frequency of medication errors?</b> <b>Chairs:</b> Brian Edwards, Sylvia Pelayo <ul style="list-style-type: none"><li>Contribution of HFE to the design of the new WHO campaign to reduce medication error (Tommaso Bellandi)</li><li>Senior fellow at Evalab / CIC IT 1403 in Lille Academic Hospital, France (Marcilly Romarc)</li><li>Assistant Professor in Health Systems Engineering, Department of Family Medicine and Community Health in the University of Wisconsin School of Medicine and Public Health (Edmond Ramly)</li><li>Research Scientist and Associate Director in the Education Center for Quality and Productivity Improvement in the University of Wisconsin (Ann Schoofs Hundt)</li></ul>	<b>Field Measurement Exposure With Inertial Sensors</b> <b>Chair:</b> Plamondon Andre (Canada) <ul style="list-style-type: none"><li>Feasibility of quantifying the physical exposure of material handlers in the workplace with an inertial system (André Plamondon)</li><li>Study of the feasibility of using a system of inertial sensors for estimating joint angles in a real work situation (Adriana Savescu)</li><li>A generic lumbar moment estimator: combining inertial sensors and electromyographic data through an artificial neural network (Alain Delisle)</li><li>Workload assessment in field - recent developments of the ambulatory CUELA system (Christoph Schiefer)</li></ul>	<b>Gender, Work and Health in Ergonomics: considering sex and gender (s/g) in methods - PART B</b> <b>Chair:</b> Sandrine Caroly (France) <ul style="list-style-type: none"><li>Implementation of a gender approach to chemical hazards in building projects (Fabienne Goutille)</li><li>The organization of working time: Determinants and methodological concerns to consider to promote workers (Major Marie-Eve)</li><li>Evaluating the treatment of sex and gender when assessing methodologic quality of studies in a systematic review of determinants of duration of work absence for WMSD (Stock Susan)</li><li>The impact of heavy load carrying on musculoskeletal pain and disability among women in Shinyanga Region, Tanzania. (Kadota Jillian)</li><li>The phenomenon of self-medication in active workers: Self medication, gender and work (Castillo Martinez Juan)</li></ul>	<b>Activity Theories for Work Analysis and Design 04/ Future development in Transport, ICT, Building and Construction, Sports Entertainment and Leisure</b> <b>Chair:</b> Sandra Gemma and Carolina M. Do Carmo Alonso <ul style="list-style-type: none"><li>Activity analysis as a method to improve constructability in building projects (Araújo Luana)</li><li>eSports: Opportunities for Future Ergonomic Studies (Aleksandr Volostuk)</li><li>Mini-user testing practice during agile development: the results of a survey conducted with user centric specialists (Cosquer Mathilde)</li><li>Past and future challenges for railway research and the role of a systems perspective (Anders Arwrestrom Jansson)</li><li>From macro to micro - the regulations of an ergonomist in oil company (Gonzalez Rafael)</li></ul>	<b>The importance of the Memorandum of Understanding (MoU) on collaboration between the ICDH Scientific Committee on Occupational Health for Health Workers and the IEA Technical Committee on Healthcare Ergonomics for improvement of work condition in hospital</b> <b>Chair:</b> Ruddy Facci (-) <ul style="list-style-type: none"><li>Relationship between acute low back pain and exposure level to handling of people(Enrique Alvarez)</li><li>Psychosocial risks and quality of life at work in hospital (Madeleine Estryn-Behar)</li><li>The objectives of IEA Technical Committee on Healthcare Ergonomics (Marijke Melles)</li><li>The objectives of ICDH Scientific Committee on Occupational Health for Health Workers (Ruddy Facci)</li></ul>	<b>Ergonomics for Children and Educational Environments_06/ Education and Training</b> <b>Chair:</b> Jonathan Davy <ul style="list-style-type: none"><li>Effects of anti-glare film on tablet usability by elementary school students (Shibata Takashi)</li><li>Ergonomic analysis of the environment built for the expansion of Campus Laranjeiras and the existing inconsistencies between practice and theory applied in its implementation (Lima Eryane)</li><li>Post-occupation evaluation of playgrounds in kindergartens: proposal of a methodological tool (Falcão Bormio Mariana)</li><li>Text neck, more technology, less health? (Genev Tariffa Sandra Zamira)</li></ul>	<b>Aerospace Human Factors and Ergonomics_02/Aerospace_ Transport_Military</b> <b>Chair:</b> Guy André Boy <ul style="list-style-type: none"><li>Human-Centered Design of a 3D-Augmented Strategic Weather Management System: Formative Human-In-The-Loop Simulations (Boulnois Sebastien)</li><li>Safe flying performance in student pilots: The taxonomy of safe aviator metrics (Caponecchia Carlo)</li><li>Tests of situation awareness and perceptual speed for predicting trainee pilot performance (Caponecchia Carlo)</li><li>The influence of experience of military aviation and Hfacs training on accident analysis ability (Chi Yu Hung)</li><li>Validation Of A 3D-Visual Target Acquisition System For Evaluating The Effect Of Head Supported Mass On Performance (Derouin Aaron)</li></ul>	<b>Organizational Design and Management 07/Banking and insurance</b> <b>Chair:</b> Rodrigo Arcuri <ul style="list-style-type: none"><li>Accounting Standard for Ergonomics: Relation of Ergonomics and Accounting (Arcuri Rodrigo)</li><li>The dynamics of a service relationship: The example of pension schemes technicians (Zara-Meylan Valérie)</li><li>What does it mean to work in a service based economy? An ergonomic perspective on the new service worker (De Geuser Fabien)</li><li>Work Discussion Spaces (WDS) : what contributions for managers and workers' activities ? (Lauriane Domette)</li></ul>	<b>Anthropometry 01- Education and Training</b> <b>Chair:</b> Daisy Veitch <ul style="list-style-type: none"><li>Analysis of Zanshin in Japanese Bowing (Yamashiro Kazuaki)</li><li>Anthropometric characteristics of Chilean university students and their relation with the dimensions of the furniture of the lecture rooms (Freire Javier)</li><li>Estimating anthropometric measurements of Algerian students with Microsoft Kinect (Mokdad Mohamed)</li><li>Estimation to Use the Stick Figure of Kinect® Version 2 for Digital Anthropometry (Wenzel Sabine)</li><li>Latin American Schoolchildren Anthropometry: Study of the Anthropometric Differences of the Rural and Urban Zones in Cotopaxi, Ecuador (Velasco Wendy)</li></ul>	
16:30 18:30										